PERSONALITY AND ARCHITECTURAL PREFERENCES: A SEARCH FOR PATTERNS

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| To the Faculty of Washington State Univ | rersity: |
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PERSONALITY

AND

ARCHITECTURAL PREFERENCES:

A SEARCH FOR PATTERNS

ABSTRACT

by Kristyn Clayton, M.S. Washington State University May 2007

Chair: James Wise, Ph.D.

Is there a predictable link between types of individuals (defined by demographics), personality types and architectural elements such as floor plans, window arrangements or styles? If so, could this information form a prescriptive set of criteria beyond the normal design criteria (e.g., budget, proximity of schools, and geographic location) that could result in an evidence-based design palette for the architect to use to expedite the design process, instead of having to familiarize

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themselves with the client through multiple personal interaction, thus making the residential design process more immediately focused on the individuals' deep-seated preferences and desires instead of the traditional focus on superficial needs and wants?

An online survey is used to assess personality type, demographic information, and preference for a variety of architectural elements to support assumptions found in the literature review that hint at a correlation between architectural preferences and the measure of a subject's degree of extroversion. However, when the data is analyzed based alone on the isolation of the introversion/extroversion trait, the results are inconclusive, in that the preferences did not deviate from a general preference trend for all respondents.

Other results that extend beyond the original introvert/extrovert analysis are as interesting and suggest preference patterns for one of four recognized temperament types (i.e., the Intuitive-Thinker or "NT" type of personality) as well as certain demographics such as age and gender. The "NT" types rated the selections much lower overall than any other temperament type for façade preference, and deviated from the general preference trends for all elements more than any other type. Interestingly, that temperament is characterized by noted experts on temperament types, David Keirsey and Marilyn Bates, as "compelled to rearrange their environment." They also suggest that "NT"s make good architects.

As for the age demographic, the trends shift noticeably with increasing age for all of the selected architectural elements. For example, the younger respondents prefer the Contemporary style façade, the oldest respondents prefer the Victorian style façade, while the middle aged respondents score both nearly equal.

With gender as the analysis filter, there is general agreement with the overall preferences of males and females, but the genders themselves disagree with each other across the range of element preferences.

The conclusion for this research might also be taken to imply that by further isolating the personality temperaments regardless of the degree of extroversion, and performing a more rigorous statistical search for measurable, mathematical patterns of preference with respect to temperament, the development of a new range of evidence-based architectural programming tools might become a realistic pursuit. This "tool" could tie all of the predetermined preferences based on the myriad of personal traits, and age and gender for that matter, together into a "custom-fitted" home, not just a custom-designed home. In other words, if the design product were a more reliable reflection of the client's "inner self," and could be achieved in a more time-efficient manner for the architect, then perhaps the consumer value of custom-designed homes would increase greatly.

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Dedication

This paper is dedicated to
Christopher Swaby, Esq. (and husband),
who has unselfishly supported me in
thought, word, and deed throughout this entire process.

CHAPTER ONE

INTRODUCTION

The Question(s)

This thesis attempts to intertwine several concepts into one unified suggestion for the improvement of the custom residential architectural process. The concepts are: the architect as the definer of choice; personality as a predictor of preference; and the potential overlap of these two concepts to identify for the architect a way to more accurately define choices based on a client's unrevealed or unstated preferences, which in turn are based on personality traits. Below are several questions that need to be explored before we can make any conclusive attempt to mesh these concepts into a final suggestion.

Residential architectural programming is often a guessing game by the architect to match a number of client-centered bounding criteria (budget, size, location, etc.) with mutual acceptance of a variety of design elements in a relatively short period of time through intense, but brief, personal interaction. The techniques used by the architect are generally question and answer, and trial and error, using a series of sketches as the interface medium. This effort is costly to the client and can make the effort not worth the money or the time for most consumers. Wouldn't it be nice if there were a way for the architect to tap into the psyche of the client in a manner that would help expedite the process and perhaps produce a more satisfactory design for less money and in less time?

What defines architectural preferences? The first point to make is the distinction between choices and preferences. So many times, especially for the average consumer, choices depend not just on pure preference, but more specifically on the preferences of a spate of choices that are within the consumer's boundaries for budget, availability or some other constraint. Architectural choices for the custom-home client are presented to them by the hired architect, and are a product of the programming process, the sensibilities and often time limitations and/or preferences of the architect, and again the client constraints. So architectural preferences for the

client as determined by the architect evolve into a preference for one design over an other.

Is this process truly reflective of what one would choose if given an infinite number of choices? If choosing were based on pure preference, then choice and preference would be equal, but most often they are not. Therefore, if choice and pure preference could somehow be closer to being the same process, then the consumer would have a greater satisfaction in their choices because they would be aligned with a deep sense of preference that is not tainted by outside constraints. How could this be accomplished by an architect in the short span of the custom home design process?

Preference in Architecture, Defining Choices and Personality

The architectural community has long posited a link between a client's subconscious self or innate personality, and their perceived spatial preferences, but there is no large body of research nor conclusive evidence of such that is widely accepted and taken advantage of in the architectural community. What does exist in large quantities is research attempting to quantify preferences mathematically so as to understand the 'prefence' concept more thoroughly. There is also prolific in today's

¹Cooper Marcus 1995

²Livingston 2005

pop culture a myriad of applied research that links personality types to preferences for a host of items including wardrobe colors, employment, significant others, and various product sales to achieve greater client satisfaction.³ The use of such linking techniques appears to offer the consumer an added level of confidence that what they are "choosing" will ultimately be more suited for them than those items chosen from a sea of confusing and impersonal products. Could this marketing strategy be applied to residential architecture practice to raise client satisfaction for the choices that the architect determines are preferential?

If there is a link between personality and architectural preference, how would it best be defined? The science of architecture in the words of Christopher Alexander, noted scientist, architect and builder, is "an atrocious muddle intellectually." Mr. Alexander has spent a lifetime trying to bring architecture and science together in a way that maximizes the potential of architecture to better the human condition. This paper briefly discusses his theories on complexity and order and the subsequent development of patterns as keys to understanding preference in architecture. Any observable pattern for preference that relates to personality is what this research hopes to uncover.

³Tieger 2001; www.e-harmony.com, Juergen 2004

⁴Alexander 2003

The idea of basing a design on a person's individual personality type is not a new one, but one that has largely gone unexplored via behavioral research. General personality assessment combined with marketing research has been performed extensively in areas of employment, job performance, team building, matchmaking and marital counseling. By asking the subject to take a personality test, then categorizing the subject's results into predefined categories, a fairly reliable predictor of behavior is produced that can predict certain behaviors to the subject. Corporations have used this assessment technique for years to establish whether or not a person is suitable for hiring into a particular firm or what individuals would comprise the best team for a particular project.⁵ Pop culture has used this technique for a variety of internet dating services such as "Match.com" or "e-Harmony.com". One show on the MTV (Music Television) channel, *Roommates*, has early "twenty-somethings" enter the bedrooms of three potential dates to select the preferred date based on viewing the contents and conditions of that room.

Tapping into the subconscious or unconscious for marketing strategies is making great strides in the commercial world and has fostered limited applications in architecture such as the Zaltman Metaphor Elicitation Technique⁶ (ZMET - named

⁵ Chambers & Manning 2000

⁶ Szegedy-Maszak 2005

after a Harvard professor). In 2003, this 'mapping technique', i.e. linking the unconscious mind and its selection of guided images called "metaphors" to the architectural design process, was applied by an architectural firm, aptly named "fathom," to design a hospital wing that serves cancer patients and their families. This firm used a metaphor elicitation technique coined "deep design" to uncover unconscious desires; then, through a proprietary process, applied the results to the design of the facility. The result is a structure that supposedly reflects the deeper feelings and healing desires of its users, which include staff, patients and their families.

As the following literature review suggests, the techniques that link personality traits to architecture in general are not new, but have yet to be thoroughly examined in the context of specific architectural elements. If there existed a body of research that proved that there was a reliable link between the individual nature of consumers and their resulting preference for the details that compose a home, then the science and profession of architecture could be advanced to benefit the architect and the client equally. The focus of this paper then is to use a narrowly defined methodology to assess personality, note preferences for distinct personalities, then through graphical analysis observe any results that might suggest a link between the two with respect to residential architectural design elements.

CHAPTER TWO

LITERATURE REVIEW

This chapter contains a presentation of the most significant literature findings and their relevance to this research. It is necessary to demonstrate the relationship of several different aspects of this research, and also to discuss where future relationships based on this and similar research could develop.

The discussion topics below will hopefully lead the reader to a better understanding of the potential that this research has to offer. This chapter presents the literature review on these topics:

- the difference between choice and preference generally and with respect to architecture,
- the initial attempts to quantify architectural preference,

- the traditional architectural design process and determining preference,
- the existing research that links preference for architectural features to individual characteristics such as personality and demographic data, and
- current trends in architectural design to reach the client's deeper consciousness to assist in the design of architectural features.

These topics will define the research effort and direction embodied in this paper.

The Concept of Choice versus Preference

Behind the conceptual idea that this research, if taken to an exhaustive conclusion, might one day suggest an architect's tool to improve satisfaction in the custom design process is the need to understand the science of choice. The idea that there is value in narrowing the choices of architectural details to a subset that is predetermined by personality among other factors might prove more valuable is supported by *The Paradox of Choice: Why More Is Less*, by Barry Schwartz. the subjective nature of the traditional residential architectural design effort is made even less clear by the number of choices that exist today for consumers in all products as

⁷ Schwartz, 2005

compared to days gone by. Mr. Schwartz describes an inverted U-curve of satisfaction which increases to a point as the number of choices increases, but yields to dissatisfaction beyond some point of maximum satisfaction as the number of choices continues to increase. In other words, there is a point of diminishing satisfaction for ever increasing choices. In the case of securing a home, choice is however bounded by social and economic limits imposed on the client and oftentimes choice has little to do with true preference. The number of choices is then smaller due to these outside bounding factors and may then keep the satisfaction curve limited to the low range, or rather, restrict the amount of satisfaction obtainable. Therefore, if the number of choices could be focused on ones that reflect the client's true preferences as necessarily bounded by the imposed limitations, then perhaps the amount of satisfaction could be heightened, even with limited choices, by offering choices that are inherently more satisfying. This distinction highlights one of the challenges in using residential architecture with respect to preferences in any research which is isolating preference from choice.

Initial Attempts to Quantify Architectural Preference

The oft cited management mantra, "If you can't measure it you, can't control it" is very applicable to this research and necessary for its methodology. In the 1930's

a mathematician named George D. Birkhoff decided that he would quantify the elements of aesthetics into a simple equation. He proposed that a measure of beauty or aesthetics, M, is expressed as the number of elements of order, O, i.e. its symmetries, balance and two dimensional coordinates, divided by the number of elements of complexity, C, for polygons this was defined as the number of indefinitely extended lines that contain all of its sides. In other words, the 'order' is the geometrical relationships of identifiable segments of the object and 'complexity' is "the number of localities our sight will spontaneously rest on."

M = O/C

Therefore, for a given order, as complexity increased, the measure of beauty would decrease. Conversely, for a given complexity, as the number of orders increased the measure of beauty M would increase. As it turns out, the most beautiful of polygons according to this formula is the square with a measure of M=1.5.¹⁰ Birkhoff also applied his theory to objects of art and music varying the computational rules for complexity and order. Birkhoff was a pioneer in this type of research but he seemed to ignore any link between widely acknowledged beauty that can be described easily in general terms, such as a famous painting or a finely crafted vase, to individual

⁸Pham 2000

⁹Staudek 1999

¹⁰ Scha, Bod 1993

preferences for a variety of beautiful objects as a function of the beholder's uniqueness, or the romantic nature of beauty. His theory has been instrumental in work on two dimensional visual interfaces in a wide variety of applications. It has not, however, gained much prominence in the world of three dimensional architecture. The formula might best be described as a complexity coefficient with respect to a measure of aesthetic order since it doesn't account for the actual experience of observation.

The monumental task of scientifically describing the seemingly subjective concept of beauty is still being pursued today. Complexity, on the other hand, has been explored to the point of a widely accepted conclusion, i.e. that it has a distinct influence on "beauty" or aesthetic quality. Research has shown that there are measurable preferences for architectural elements including high ceilings, lots of windows, shiny office buildings, and "popular" architectural styles, etc. Other research also indicated that 'moderate complexity' in buildings is also a concept that appears to be preferred (as cited by Gifford and attributed to Joachim Wohlwill's research circa mid-1970s). In this instance moderate complexity is referring to the mid range of a collection of stimulus that contains a high number of the elements of order to a stimulus that contained a very low number of the elements of order and no

¹¹ Gifford 2000

distinguishable patterns, or a high degree of chaos, where the stimulus varied from photographs of urban areas to music. There was noted some preferences for the high ranges and the low ranges observed, but the reasoning for those individuals' preferences was not defined. Gifford argued further that there is little predictability for a client's architectural preferences by architects. His analysis of response differences between architects and laypersons to a variety of modern office buildings demonstrated that the preferences of laypersons and architects may have only coincidently aligned, and that even more interestingly, the individual's criteria for establishing the responses (pleasure and arousal) was very different between the two groups. Gifford's research concluded that these differences can result in "severe mismatches" between laypersons and architects. The applicable conclusion for this research is that without specific tools to help the architect decipher the client's true preferences and what design elements might satisfy those preferences, a mismatch with a resulting unsatisfactory product, is likely and that a product that is extremely satisfactory to both the architect and the client is a probably a mere coincidence.

In attempting to understand the concept of preference, a wide variety of factors should be considered overall. Since understanding preference is not the focus of this paper, and certainly beyond the capability of its author, however, there needs to be some simple measure of preference that will help to anchor and/or describe the

results. As discussed previously, one basis for measuring preference is complexity as passionately discussed by Christopher Alexander in his paper, New Concepts In Complexity Theory: Arising From Studies the Field of Architecture¹² and supported by others as discussed in this literature review. To study the science in architecture, and then to learn to apply it is the impetus behind much of Mr. Alexander's research and he has spent a lifetime attempting to quantify and optimize the process of design. If his theories are to be believed, then there is value in understanding and measuring the complexity in architecture. This is an important addition to the previously cited studies that point to complexity as a measure and predictor of preference. However, unlike the sciences of biology or chemistry where complexity is discovered through studies of nature, humans create the complexity in architecture with requires new insights in defining it. That is why he posits that architecture can offer the traditional sciences a broader understanding of complexity. 13 He discusses that there needs to be a "shared notion of quality" which is what the architecture of ideal should be, not simply striving for the singular notion of beauty or aesthetic measure, and that the "quality" is a precise combination of beauty, complexity and order that cannot possibly negate the feelings of the observer.

¹² Alexander, 2003

¹³ Alexander 2003

Furthermore, the "quality" of the larger design is not a stand alone concept based on a subjective aesthetic judgment, but the intricately woven development of the subsets as they relate to one another and compliment on another, what he terms relative coherence. Alexander thus uses the concept of order in a unique way, where the nature of order is not simply the number of elements of a geomtric shape, but is the "relative coherence" of subsets of parts of a larger design entity. These subsets must have their own "quality" which interacts with, is derived from and relies on other subsets of measurable quality to produce the larger design object. And all of this is still not completely defined without considering the observer's own wholeness, where wholeness is a self-measure of the personal subjectivity of the observer.

Alexander states:

"It appears then, that after centuries, there may exist a reliable and profound empirical method for reaching shared judgments about the degree of value [quality] inherent in a complex system....there are powerful reasons for thinking that the value which inheres in wholeness reflects on physical reality." ¹⁴

Since complexity is so often encountered in this literature review as a measure of preference, then perhaps complexity can be used to describe the different survey elements in this research in a meaningful way and also to establish a good range of samples for selection. Thus, this research will use simple measures of complexity to

¹⁴ Alexander 2003

describe architectural elements in order to hopefully frame the results with previous research on complexity and preferences in architecture.

The book, Decoding Homes and Houses, by Julienne Hanson, uses a spatial analysis technique to quantify the floor plans of architects' homes in London, England and then draws a conclusion about the results as it relates to the occupant's satisfaction. Spatial syntax is a mathematical model, using graph theory, applied to measuring adjacency and relative interaction of distinct spaces to each other. Hanson posited that the spatial syntax of architects' own homes reveals interesting differences and similarities. The results suggested that while the architects' homes were very different in style from each other, they all shared a similarity in the level of spatial complexity of the floor plans as measured by a convex space analysis technique. This suggests that satisfaction for the educated architectural professional in home designs has much more to do with spatial complexity than with style. If the same can be said for laypersons, then complexity becomes an extremely important measure for satisfaction and potentially for predicting satisfaction.

Further studies on preference in architecture show that complexity of surfaces of buildings is a strong predictor for preference.¹⁵ In the summary of a paper by

¹⁵ Stamps 1999

Arthur Stamps, entitled *Physical Determinants of Preferences for Residential Façades*, he states:

"Traditional design discourse uses vague notions. The vagueness can be greatly reduced by confining one's descriptions of physical design features to materials and spatial relationships....[and].....the most important factor for visual [façade] preference turned out to be the surface complexity."

His research was itself mathematically and statistically rigorous and relies on some of the same concepts cited in this paper and many others on aesthetics and preferences in architecture. By developing a series of simple, but increasingly complex figures, and gauging responses to these figures over many months with many different subjects, this research developed equations of predictability relating to measured complexities of graphically simple façades designs. All of this effort supports the assumptions in tis research that complexity is a viable measuring tool for assessing different architectural elements, especially façades, and that preferences are predictable relating to different degrees of complexity. The extension of this research to the focus of this paper would then be to match varying complexities to varying personality types.

Various other literature which won't be cited herein concerning aesthetic or environmental preferences seemed to be focused on the social aspect of housing such as trees, neighborhood characteristics or closeness to shopping and not having to do with any specific architectural elements. This is especially true with respect to preferences in elder adults. Designers may assume that older persons prefer single story, low maintenance yards, etc., that may reflect the older client's needs and desires when health becomes the focus. But there was little research on the older person's preference for aesthetics. With the baby-boomers comprising an increasing percentage of the aging consumer populace, it might be noteworthy to isolate further research on this group of people and their preferences for residential architectural elements. Related research is discussed in the next section on personality and associated links to general preferences.

Therefore, the literature review on this subject revealed that preference for architectural elements or concepts, while not easily quantified, can be linked to complexity, which is measurable by mathematic principles. The existing research proves that complexity can thus be used to predict preference. This paper uses complexity theory to describe the elements chosen for the selection process.

The Architectural Process with Respect to Preferences

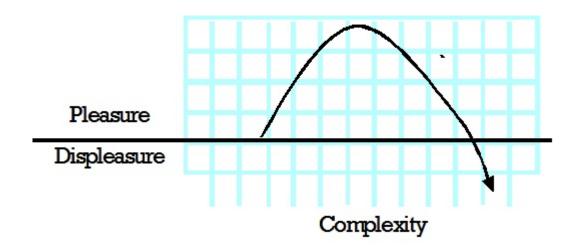
What is it about personality typology that could possibly be used as a tool to aid the architect in the design process? In his book, *Architecture and the Human Dimension*, Peter Smith discusses the link between the tolerance for "novelty and

surprise" to preferences in architectural elements. He suggests, for instance, that introverts, or persons that show the personality trait of introversion, are proven to have a lowered tolerance for arousal and therefore would prefer designs that are less complex. Conversely, extroverts are more prone to under-stimulation and need a constant diet of stronger stimuli to maintain interest in an object. While this statement makes a good case for a theoretical link, and has strong opinion statements to support the supposed link in other research, there were no studies cited that had any statistics or empirical research to prove the theory. Can this research and the his concept of "stimuli" be translated to complexity? If so, then this is a suggestion that more mathematically complex designs would appeal to more extroverted persons. Mr. Smith does discuss a few concepts that were important in defining this research. Smith refered to a "Wundt Curve" that graphically describes the relationship between complexity and the amount of pleasure a subject will have for a given design. Refer to

Figure 2.1.

¹⁶ Smith, 1979

Figure 2.1 The Wundt Curve



Simply explained, there is a peak of pleasure for a design that is somewhat complex in nature, but rapidly increasing displeasure with an increasingly complex design. Mr. Smith further states that there is no measure of the "keeping up with the Jones" factor that may affect all architectural preference and the resulting choices which has already been noted to be a challenge in this research. Finally, he eloquently proffers that:

"....architecture can glimpse....that promised land where reason and dreams synthesize into ultimate truth."

The "how" of that synthesis is what this research is attempting to address. It is also notable that the relationship of preference and complexity here is non-linear as mentioned earlier. This could be another reason why preference, or beauty as seen with the eye of the beholder, is elusive and has not been thoroughly understood.

In the case of this research, the architectural process is defined as the interaction between client and architect to produce a mutually satisfactory residential design. It is necessary to understand how preference factors into this process and what the state-of-the-art practices encompass. Traditionally, the architect uses experience, intuition, and observation to assess the preferences of the client during a sometimes lengthy (six months to a year on average) interview process. The process has very little to do with scientifically assessing the true nature of the individual client in order to gain a better understanding of what architectural elements might provide the most satisfaction. It is a subjective guessing game with no guarantee that a high degree of satisfaction will be achieved once the paper is turned into the physical form. The literature review supported this statement: while there were numerous casual mentions of the supposed connection between spatial design and individual personality, there doesn't appear to be a significant evidence-based body of research to support this hunch. This notion is also being discussed in the industry as recently as 2005 by Larry Leis, FAIA, 2005 Chancellor of the College of Fellows, American Institute of Architects, who in an article titled, "Research to Provide Proof for Evidence-Based Design," states: 17

¹⁷ Livingston 2005

"As architects, we know intuitively how design functions in creating a healing environment, but we don't have the research to back it up."

A follow-up quote by John Eberhard, Academy of Neuroscience Founding President, suggests the need for architecture to¹⁸:

"Go beyond intuition."

Mr. Leis also states that such research in architectural design¹⁹:

"...will place a higher value on the architect's services because architects will have the evidence-based research tools to make design decisions,"

and design decisions that realize the full import of a client's economic, social, and personal wants and needs. The awareness by the architectural community that traditional design methods could use improvement is at the forefront; the methodology is as yet undefined. This provides more impetus for this research; that with a higher value for the architect's services, the more the service will be considered necessary, and therefore sought after. Could it be that the secret to a higher demand for architectural services lies in discovering the method of achieving greater personal satisfaction in the final product as a result of the design effort. One might think so.

¹⁸Livingston 2005

¹⁹Ibid.

The inadequacy of the traditional design effort is brought out in the book, How Buildings Learn: What Happens After They're Built.²⁰ Stewart Brand uses a provocative quote to describe the essence of his book,

"All buildings are predictions. All predictions are wrong."

Mr. Brand's discussion of Strategic Planning instead of "Immediate Desire" programming supports why this research could be very important in the improvement of the architectural design process. The suggestion here is that "immediate desire" programming is superficial in nature, based on vacillating factors and will always result in dissatisfied clients. Stronger predictability and satisfaction can be had by using programming techniques that are focused at isolated aspects of the client's needs that includes deep personal needs as well as economic and social desires, that will result in greater satisfaction over longer periods of time; needs that are specific to the individual and not passing social fancy. He suggests that a building isn't really finished being designed until the inhabitant's occupy it and make it their own. If only there were some way to be able to predict this "completion" during the design phase by assessing the client's true needs and then designing to specifically fulfill them. In other words, if the design effort was considered more likely to render a house that is satisfying on a much deeper level than it currently does, then perhaps it could

²⁰ Stewart 1994

establish more of a need for the architect's services. Consumers might then choose to use an architect to decode their true preferences into a home design because the result would produce an overwhelmingly greater satisfaction.

Personality and Its Link to General Preferences

Given the above discussion, the focus of this research then becomes finding an as yet undefined link between various assessments of a specific personality profile and the architectural feature preferences of that same profile during the design effort to capture a greater level of satisfaction. Personality was chosen because it has gained an amount of scientific recognition as a means to describe or predict behavior based on the variations of certain categories of personality and an arguably equal amount of popular acceptance that the predictive capability of personality assessment increases satisfaction. This section will briefly discuss the term "personality" and present the appropriate supporting literature that correlates various aspects of "personality" to general and architectural preferences. It is therefore hoped that the same correlation can then be quantified and verified for preference predictions in architecture as determined by a personality assessment.

To adequately address the term "personality", it is necessary to discuss how this research considers personality and what aspect of personality might render

reliable preference predictions. In the book "Please Understand Me" the authors very briefly present the history of the science of psychology. In their description, the science of personality is a compilation of the many different ways to try to model the 'why's' in order to predict the 'how's' of a person's or group of persons' behavior. These descriptions have varied over hundreds of years, but show a cyclic pattern surrounding the idea of temperament.²¹ A person's temperament is the set of actions and reactions that identify their behavior. Modern use of the concept is derived from an ancient behavioral theory of Hippocrates. Keirsey and Bates' text rework the four temperaments of Hippocrates into a modern framework. The attention on temperament was reborn when the mother daughter team of Katheryn Briggs and Isabel Myers created a test based on Carl Jung's personality theories. This test became widely used as a categorization tool for separating people into sixteen categories that are derived from the combinations of four bipolar traits ($4^2 = 16$). The sixteen Myers-Briggs personality categories fall nicely into the four temperament categories as originally proposed twenty-five centuries ago by Hippocrates, used by the notable psychologist Carl Jung in developing current personality theories, and as restated by Keirsey-Bates. The distinction between the sixteen Myers-Briggs categories and the four temperament categories, besides the obvious numerical one,

²¹ Keirsey Bates, 1984

lies in their intended use. According to the Keirsey-Bates text, the sixteen categories are useful in providing a detailed description or portrait of an individual, while the four temperament categories are useful in predicting the behavior of a group of similar individuals. The authors suggest that using the sixteen categories to predict behavior can be cumbersome, and not necessary since it is the fundamental temperaments that supposedly predict what a person will do most of the time²². It is interesting to note here that the categorization into temperaments is not based on the Introvert/Extrovert trait, i.e. the tendency of an individual to seek solace or other people as sources of energy respectively, but on a combination of three other specific bipolar traits.²³

The Big Five Personality Factors, by Boele De Raad, was convincing in the theory that it might be more telling, and, consequently, more useful to isolate the "factors" or traits of introversion and extroversion for establishing a connection between personality and architectural preferences²⁴. Mr. De Raad states that extroversion is a predictor in other forms of research pertaining to such areas as the number of extroverts in leadership positions, the predominance of extroverts in certain occupations, the increase in job offers for extroverts compared to introverts,

²² Keirsey-Bates, 1984

²³ Keirsey-Bates, 1984

²⁴ De Raad, 2000

and the predictability of personality disorders with respect to the introvert/extrovert trait. Therefore, any attempt to establish a link between the preference of a certain group of like personality traits should be analyzed with respect to all sixteen categories then again with respect to the temperaments as discussed previously and finally with respect to the separate Introvert/Extrovert trait in order to completely cover all potential personality categories available with a single test.

Other "preference prediction" research focused not directly on personality, but on the factual composition or demographic data of a person. As an example, genderbased preferences have been explored fairly thoroughly with respect to residential choices, but with more of an emphasis on preferences for the bigger environmental picture instead of the smaller scale of the house's detail. These studies are a subset of the concept of personal construct theory. In the study, "Personal Construct Theory and Residential Choice" by Valerie Preston and S. Martin Taylor²⁵ the authors explore the demographics of age and gender with respect to residential choice (in this research it was choice as the selections were already made). The results show strong correlations for social preferences such as proximity of services nearby and whether the house was single family or not with respect to age and gender. It did clearly establish a link between family life-cycle and choices. One missing aspect that was

²⁵Preston & Taylor 1981

noted within the study was the identification of attributes for older women which the authors concluded potentially limited the study. This study focused on choices versus preference, but did mix the two in a way that could have been more meaningful to this effort if that distinction had been brought out.

Broad topic research efforts that produced reliable correlations between other physical aspects of a person and aesthetics are discussed in an article entitled, "In the Brain of the Beholder". 26 This article cites several research efforts that established links between aesthetic preferences and their right and left hemisphere abilities, handedness, and gender. This research can be seen as using a mix of the "factual" physical make-up of a person and their inner, more mysterious aspects. In the conclusion of this research, spatial orientation preference in paintings was correlated to whether a person is left handed or right handed. The capability of a person for higher right brain function was directly related to their preference for abstract art; higher functioning left brain respondents preferred more realistic artwork. Several studies cited in this article appear to suggest that women posses a more subtle aesthetic preference that is largely determined to be "less predictable". This could be linked, the research posits, to the left brain/right brain differences in the genders.

²⁶Strachan 2000

Thus this research delved into not only the superficial and factual elements of a person's make up such as age, gender, family status, etc., but also probed deeper into the person's inner being with the exploration of the right/left brain capabilities to establish preferences for aesthetics in art. This research does establish support for considering the inner design of a person with the design of an aesthetic object to maximize satisfaction and for furthering the research of defining the link.

Current Trends in Design Linking Personality and Architecture

The conceptual idea of a correlation between architectural preferences and personality is by no means a recent one. There are countless references in many of the texts reviewed that quite clearly assume or suggest links, but never factually establish any with data or research. "A Room with A Cue: Personality Judgments Based on Offices and Bedrooms," a Journal of Personality and Social Psychology paper by Gosling, et al.²⁷, tackled establishing a statistical link between personality and the observation of the state of a room. A survey was conducted that observed offices and bedrooms and then surveyed the occupants for personality traits in order to establish a connection. The offices and bedrooms that were used were nearly architecturally identical and, as such, the research was more concerned with individual interior

²⁷ Gosling 2002

"design" and conditions than professional architectural design. The results showed that there was a predictable link between the conditions of the spaces, e.g., messy vs. neat, and the personality traits of their occupants, e.g. extroversion, agreeableness, conscientiousness, emotional stability, and openness to experience. While this is not a clear tie to the research effort of this paper, it does establish an interesting and consistent relationship between the characteristics of space and certain personality traits. These traits were the same as discussed in the book, "The Big Five Personality Factors" previously cited and can be obtained via a survey and/or via close personal observation.

One text that eloquently addressed the origins of intertwining personality, neuro-psychology, feelings and architecture is "House as Mirror of Self" by Clare Cooper Marcus. 28 This book promotes exercises that will help the reader to identify their feelings about "house" that may be repressed or unconscious. Ms. Marcus also presents her views and others on the "conflicting spatial desires of couples" and how they think quite differently about the place called home. Also discussed throughout her book is Carl Jung and the origins of his work on archetypes and the subconscious which actually were originally based on a dream of his about a house. The term 'archetypes' here refers to the personality categories that are discussed earlier in this

²⁸ Cooper Marcus 1995

chapter and called temperaments. Jung's "house dream" is often referenced in several texts cited in this paper. His description of the house is a metaphor on the levels of consciousness starting with the basement or deep subconscious and building up to complete consciousness. Ms. Marcus' most notable discussions on the development of "house" by Carl Jung and others she personally knows reveals that when one is allowed to change the environment one lives in, it will reflect the state of the psyche of the occupant. She presents many examples of this, but also states that for most of us, we must adapt to the environment because the option of shaping and changing our environs when it suits us is not practical. Her work in establishing the link between the deeper consciousness and the design of the house is paramount to this research, although offers little in the way of empirical evidence. Interestingly, Ms. Marcus also suggests the introvert/extrovert trait as a predictor for preference and includes a sketch that has the extrovert's house as a stretched tarp-like abode tied to the earth at four corners versus the introvert's house as essentially a fortress with few openings behind an impenetrable wall. This is further support to analyze the data in this research using several different personality trait combinations. Her conclusions might also be extrapolated to posit that being able to match a person's psyche prior to buying or designing a home would result in a better "mirror of self" and hopefully a deeper, truer satisfaction.

One of the most striking examples in support of the idea of shaping ones environment to reflect the psyche can be found in the Winchester house in San Jose, CA. Mrs. Winchester, wife of the inventor of the Winchester rifle, slowly lost her grip on reality and sank deeper into a state of fear and paranoia. As she did so, she had carpenters build areas of her house to funnel the spirits away resulting in doors that lead to brick walls, doors that open out into the air, and stairways that are only one inch on the rise. A tour of the house is an amazing revelation of her efforts to escape the demons that haunted her by having carpenters on site around the clock for years, in an effort to deceive the spirits. It is worth a tour for anyone who is curious to see a fascinating example of how the house can be a frightening mirror of the self. For a less psychotic example, there are several examples in Thomas Jefferson's Monticello that reflect his inner self and his focused interests. Many of the rooms in that historic mansion are not square - in fact, he considered square corners a waste of space. His desire to use time and space as conservatively as possible is reflected in the design details throughout the house such as beds in alcoves to maximize floor space with closets above. The dining room has a built-in dumbwaiter that he imported from France that brings wine up from the cellar and rolling dumbwaiters to reduce the need for servants interrupting the dining experience. The windows in the dining room also serves as doors to the adjacent tea room to enlarge the room when necessary. The

same windows open up around the house to bring the outdoors indoors since outdoor living spaces were very important to Mr. Jefferson. These are all design features that reflect a strong, healthy personality that sought to maximize space in a relatively small mansion- features that are sadly scarce in most popular home designs, except those owned by creative and energetic craftspeople. While these are two very different examples of the house as a mirror of very different selves, they both demonstrate that if given the chance, the home owner can incorporate their own personality into their homes' design features.

Along the same lines of developing the environment based on a knowledge of oneself is the design technique of Vishu Magee as detailed in his text "Archetype Design". 29 Mr. Magee uses and encourages in his clients various meditation techniques to discover design details that relate to a wide range of informally defined archetypes from nature and astrology to Jung's personality archetypes. Although there doesn't appear to be a direct, prescriptive link between specific details and elements of nature or personality in his work, he is quite convinced that the design of a house can be a healing force for the wounded spirits of all humans. By transforming dreams into design details, he claims to link the subconscious needs and desires to creative elements of residential design that will ultimately satisfy the occupant's soul.

²⁹ Magee 1999

In support of this research he states, "...while attempts have been made to correlate creativity with personality, motivation or childhood experiences, the creative process remains an elusive quarry." He offers an explanation that such research that would link creativity with personality is hampered by "our cultural preoccupation with success and achievement." Certainly this presents a challenge to any research that deals with assessing such a social icon as "house".

Literature Review Conclusions

In conclusion, the literature review proved extremely valuable in formulating the methodology for this research by highlighting several important and moderately developed theories:

- 1. Choice and preference are two entirely different concepts. Many times the choice of a home is not what is preferred because of social and economic factors beyond our control. Preference is more of an indicator of what might truly satisfy us and as such is the better link to who we are on a deeper level and ultimately to a deeper satisfaction.
- 2. Personality type has been linked to general preferences for other items since the advent of the Myers-Briggs tests and is a very popular concept with consumers. The popular acceptance that important choices can be aided by an

- assessment technique based on contrived categories of the psyche provides an added assurance that a choice will be satisfactory.
- 3. The four temperament categories and the sixteen Myers-Briggs personality categories are related, but are used in different ways. Introversion/Extroversion may be a very reliable predictor for architectural preferences as suspected by psychologists and architects alike. All three will be used to separate and analyze the data in this research.
- 4. Establishing predictability in research relies on a careful development of the criteria involved. Other research has shown that complexity is a useful and proven method to frame the choices of architectural elements and to perhaps understand the results. Preference in architectural elements seems to rely on a measure of complexity as well as many other factors about the person's demographic identity.
- 5. The science of architecture has not adequately quantified the process of designing as of yet in order to control and/or improve it. The whole process is still undefinable as an exact science and is tangled perhaps inextricably in social and subconscious webs.

6. Linking personality characteristics, categories, traits, temperaments, etc. to architecture could produce a higher degree of satisfaction but is not based on any evidence to date.

Therefore, the intent of this research will be to discover patterns of preference based on popular personality categories that could potentially be used in a prescriptive manner to assist in the "elusive" nature of the design process. If such patterns exist, and are consistent and understandable, then it may be possible to give the science of architecture the boost it needs to quantify, measure and improve its process thereby increasing the value to consumers. Given that the experts all agree that there must be a link, just as yet not clearly defined, the challenge will be to find the key that unlocks this universally acknowledged theory and brings it into the light of rigorous research.

CHAPTER THREE

METHODOLOGY

Survey Details

A web-based survey technique was used to assess preferences for architectural elements, to gather demographic information and also to assess personality profiles. This method revealed a wealth of data, a fraction of which is being analyzed in this paper. Specific elements of the survey are discussed below for clarity and understanding of the method. A copy of the survey can be found for reference in Appendix A.

In deciding how to approach the data gathering for a reliable survey, it is necessary to think about two entirely different aspects related to this effort. The first consideration revolves around creating a survey that was user-friendly enough that it doesn't bias the respondents negatively by its nature. The second consideration has to do with the relatively new technique of online surveying.

Great time and effort was spent in creating and debugging this survey so that it would be responded to and subsequently passed on. Making the survey user-friendly given all of its components (a personality test, demographic questions, and eighteen selections) is extremely important and requires some shortcuts. The personality test selected for use is what personality researchers term a "short instrument". Literature on the subject of using shortened versions of oftentimes lengthy personality tests was itself a short subject. Professor Samuel Gosling of the University of Texas provided some consulting on this aspect through a casual conversation and also through his research. He covers the topic of "short instruments" in his paper, A Very Brief Measure of the Big-Five Personality Domains.³⁰ In the first paper mentioned immediately above, Professor Gosling presents the pros and cons of using shortened versions of personality tests and tests the accuracy of several shortened versions of a larger test for assessing the "big five" personality traits used by clinical psychologists. The conclusion is that the short instruments reached "adequate levels" of test and retest reliability, but should not be used when situations require a thorough knowledge of an individual's personality traits nor where personality is the primary topic of interest. This is applicable to the focus of this paper.

³⁰ Gosling, et.al. 2003

Other research helpful in guiding the process for creating a user-friendly survey comes from a Washington State University professor in the paper Principles For Constructing Web Surveys.³¹ This work was cited extensively in any text that was consulted on web-based surveying. Professor Dillman's paper suggests using eleven principles for designing web-based questionnaires. Each of these principles was considered when creating the survey. Of primary interest for this effort were the following principles:

"Principle 1. Introducing the web questionnaire with a welcome screen that is motivational, emphasizes the ease of responding, and instructs respondents on the action needed for proceeding to the next page."

"Principle 3. Present each question in a conventional format similar to that normally used on paper questionnaires."

In our case, the development of the design selections followed this principle as much as possible. It was decided early on to present the selections in formats that were expected by the respondents and not in formats that could be thought of as unusual.

"Principle 11. Be cautious about using question structures that have known measurement problems on paper

³¹ Dillman 1999

questionnaires; e.g. check-all-that apply and open-ended questions."

By and large, the principles are intended to ensure that the survey must not employ sophisticated web interface actions or expect that the user will search for the path forward through the survey.

The second consideration mentioned above was the reliability of web-based survey techniques. This field of research is changing rapidly, because the instrument of survey is rapidly changing. Skepticism abounds about the reliability of the internet as a tool for rigorous research. However, web-based surveying is, by all accounts, becoming widely used in social science and educational research all over the world. In fact, the literature that was discovered on this topic seemed to change greatly in nature from 1998 to 2004, solely due to the capabilities of the personal computer, the familiarity of the users with the internet, and the understanding of its limitations by research professionals. Several papers were instrumental in gaining clarity on the subject of web-based surveying and the subsequent short-comings of this effort. Two concerns for internet surveying were

- 1. The sampling bias; and
- 2. Response rates.

These were addressed by David Solomon in his paper, Conducting Web-Based

Surveys.³² He suggests that there is a need for caution when using web-based surveys and discusses several different ways that they can best be used. Again, this paper is five years old, and as such, offers time-dependent information that has since become obsolete. The purpose of that paper was to offer software developed by the author.

Other more potentially and more objective research discussed the sampling bias and response rates as concerns, but as the internet, users, and personal computers have become more sophisticated, the remaining limitation seems to be the sampling bias. The sampling bias, or only getting respondents who are of a certain intelligence, socio-economic standing, age, etc., was a concern in all objective research that was reviewed.

In the paper, *Should We Trust Web-Based Studies*?³³ Professor Gosling and his colleagues compared large sampling data quality with published traditional samples. The research concludes that internet surveys do not suffer adversely from non-serious or repeat responders, are consistent with findings from traditional methods, and are relatively diverse with respect to demographics of traditional survey respondents. In this paper, six preconceptions are discussed and statistically analyzed. The one mixed finding from this research is that the samples are not entirely representative of the

³² Solomon 2001

³³ Gosling 2004

general population, but are actually more diverse than traditional sampling in many domains such as gender. The bottom line of Gosling's research is that internet methodology is here to stay and can successfully contribute to many areas of psychology.

Administration of the Survey

The survey was administered online, in an anonymous fashion, and distributed to a wide cross-section of potential respondents via a random email "contact pyramid" fashion to individuals and also to related professional list-serves. The author of the survey selected various parties from email contacts totaling nearly 40 people and sent them the survey link. The people who took the survey were asked to send it on to their contacts via e-mail so as to create a pyramid of somewhat anonymous respondents. Several of those contacted are design/build and/or psychology professionals, who, in turn, sent the survey to their email contacts and also to professional groups of which they are members. This effort solicits cognizant respondents who have some knowledge of the design/build profession in order to run some comparison of the resulting data in a more focused fashion, if desired. The demographics data is an attempt to identify any respondents that might have a bias, to understand the bias inherent in the survey, and to offer other criteria for analyzing the data other than personality type. The distribution method is also an attempt to gain the most respondents in the least amount of time. In less than one week's time, 442 persons had responded to the survey. The data was analyzed using this sampling count.

Presentation of Survey

Jerry S. Wiggins' book, *Personality and Prediction*, helps establish the procedure for using personality assessment for prediction and research and discusses the inaccuracy of this approach.³⁴ He suggests the following steps to use in a methodology for establishing prediction in research:

- perform a criterion analysis,
- select instruments (the architectural elements) that reflect the range of criterion chosen,
- develop a predictor test,
- ensure that it is a test for a combination of data,
- ensure that the data requested establishes a means for cross validation, and
- consideration for the application of the predictor test to gather data.

Each of these steps was used in developing this methodology. The basic criterion used to select the architectural elements is the measure of complexity.

The survey had five basic segments:

1. a demographic questionnaire;

³⁴ Wiggins, 1973

- 2. an assessment of personality type using an abbreviated Myers-Briggs test:
- 3. the assessment of preference for house types or façades;
- 4. the assessment of preference for an interior elevation view of a window arrangement in a bedroom; and
- 5. the assessment of preference for a floor plan involving two bedrooms and two bathrooms.

The architectural elements were presented in random order to remove any bias from the order of presentation. These segments are discussed several more times for explaining the data and the resulting conclusions.

Demographic Questions

A series of demographic questions were asked to help account for any bias that might exist in this survey. It will be important to validate the respondents' population criteria as compared to that of the general population. Also, there may be a preference with respect to the participant's age, gender, and education in general, that if known, can be reviewed and considered. In addition to a bias for a particular demographic, there may be research data that proves interesting for establishing patterns of preference. The demographic questions also included a verification question for the Introvert/Extrovert assessment by asking whether a respondent considered themselves shy or not.

Personality Assessment

An abbreviated questionnaire, or short instrument as discussed in the literature search, consisted of four bipolar questions, i.e. asking "are you this or that?", with each question having two comparative columns of descriptive behaviors. Standard personality tests such as the familiar Myers-Briggs test can contain up to 75 questions and was considered too lengthy for use in this format.

Architectural Element Selection and Presentation

There are several aspects of this part of the research to consider. First, what architectural elements should be used? Secondly, what media to use for the presentation of those elements. And lastly, how to objectively and quantitatively differentiate the elements one from another in order to explain a potential preference?

The architectural elements that were selected for this survey are façade styles, interior elevations, and floor plans. These are perhaps the most distinctly recognizable elements of a residential design, and the ones with which the consumer is most familiar. Each element was presented separately and asked the respondent the question, "How well do you like this [element]?". The respondents then selected on a

sliding scale from 1-5 the rating for that element. Each element is described below with respect to why it was selected and how they were presented.

The three architectural elements, house style via a façade, interior elevation, and partial floor plan, were presented with a variety of methods. The façade styles were scanned from internet pictures and their size was normalized to reduce any bias based on presentation. The interior elevations were created with Microsoft Power Point software. AutoCAD software was used to create the floor plans in a very non-stylized format. All selections were imported into Power Point for the final presentation on the website.

As was discussed previously, the surface complexity of the façades was the overall preference determining factor in the research by Stamps.³⁵ If that result can be generalized and applied to all of the visual elements of this research survey, then perhaps there is a verifiable, measurable and predictable preference based on a complexity value for not only general preferences that will be analyzed in this research, but also for various personality types. In other words, with a relative measure of complexity for not only the façades, but the other two architectural elements, we may be able to understand any preferences noted with links to

³⁵ Stamps, 1999

previously performed research and then apply the same rationale to a correlation of the preferences to the various personality types.

Façade Styles

Façades were considered useful to assess the subjects' preference for exterior appearances or aesthetics. It is the only outwardly visible architectural element as compared to the inward selections of the other two design elements. Six very different styles of houses were selected from the immense array of samples available. Care was taken to select pictures that were recognizably distinct in style with a wide range of complexity, yet similar in presentation and format with relative sizes that could be reasonably assumed to be comparable. The six façade styles selected are:

- F1. A-frame;
- F2. Contemporary;
- F3. Georgian;
- F4. Southwest;
- F5. Tudor; and
- F6. Victorian.

The pictures of the selections can be seen in Appendix B. As discovered in the literature search, pure style, while being an important consideration in choice, does

not necessarily predict preference. It is the concept of complexity that appears to determine a measurable and consistent preference for architectural aesthetics.

One other somewhat related study that dealt with house style preference and cultural tastes, found that after an extensive process of selecting and narrowing down 42 house styles, 15 defining styles were finally chosen to base their study on.³⁶ The researchers performed extensive tests with subjects, interviewed housing contractors, and used students to weed out the original list in order to have a selection set that was recognizable as a distinct style by respondents, popular with the current housing industry, and available throughout the continental United States; similar criteria for the list in this research. Their resulting list includes four of the same styles chosen for this research, Georgian, Tudor, Queen Anne (similar to the Victorian), and International (similar to the Contemporary). There was also a Spanish style house in that study, which could be considered similar to the Southwest style in its uniqueness and cultural destinction, and could be argued a recent predecessor for the currently fashionable Southwest trend in the Western United States. The A-frame was not among the houses from that study and is the only very different addition. The homes in the Nasar study were all two story while the ones selected for this study were varied. The results of this study were interesting in that all of the culturally different

³⁶Nasar 1998

groups preferred the "Post Modern" style of house with the International style considered as the highest in status. A post modern style of house was specifically excluded from this study as being too familiar of a choice and thus potentially a runaway favorite, which would not reveal any reasonable explanation for preference.

Complexity as discussed above was considered an important criteria for the selection of the elements in this research. The technique used in Stamps' work for façades counted the number of roof lines, wall planes, windows, and doors. A simple summation of those quantities reveals a relative "complexity factor."

Table 3.1 Façade Complexity Matrix

| Façade Type | | Roofs | Walls | Windows | Doors | Complexity |
|----------------|-----------|-------|-------|---------|-------|------------|
| F1 | A-Frame | 1 | 1 | 8 | 1 | 11 |
| F2Contemporary | | 4 | 6 | 7 | 1 | 18 |
| F3 | Georgian | 2 | 1 | 10 | 1 | 14 |
| F4 | Southwest | 0 | 6 | 7 | 1 | 14 |
| F5 | Tudor | 3 | 3 | 2 | 1 | 9 |
| F6 | Victorian | 6 | 6 | 8 | 1 | 20 |

Again, establishing these values may help us to make the distinction between a general preference for more complex façades as has already been proven, and the

preferences exhibited by certain personality types. It may also be a way to describe any of the preferences that are observed.

Interior Elevations

The use of an interior elevation in a bedroom was chosen to, hopefully, be able to assess the preference for visual arrangement in a space that will illicit a strong, individual reaction. It was the intent of this portion of the research to use elements that clearly capture distinct differences in interior, architecturally controlled visual layouts. Simple Power Point graphics, based on a single rectangular unit of distance were used so as to remove any reaction to a particular style of bedroom design, window type, or drawing style. The windows are a repetitive design of a small square and a longer rectangle into varying sizes and symmetries. A small range of variations, (i.e. the use of only squares and rectangles, instead of square and arched, or circular, or hexagonal, etc.) was considered important to this selection criteria, for fear that varying the selections too much would confuse the results.

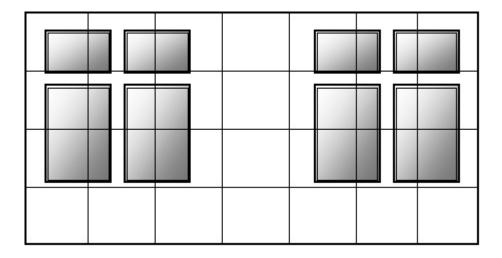
Establishing the complexity factor here as was done in the façade selections is again based on a simple mathematical concept. It is described as the box counting dimension method for elevations in the book *Fractal Geometry in Architecture and*

Design, by Carl Bovill,³⁷ however, it is not a complete fractal analysis. In short, a grid or scale is imposed on an elevation and the number of boxes in the grid that contain line segments of the actual graphic is counted. Varying the grid size, or number of boxes, will vary the final box-count value; our effort needed a grid that would produce the most amount of information and render a useful range of values. See the example below in Figure 3.1, "Example of the Box Counting Technique."

A grid size of twenty-eight boxes per the wall area, as it was printed out on half a sheet of paper in Power Point format, was used over the major plane of the interior elevation, to analyze the different elevations. A twenty-eight box grid gave values from six to eighteen as shown in Table 3.2, or threefold, which appeared to be a decent range for comparison. Please refer to Appendix B for pictures of the all of the walls and the imposed grids.

³⁷ Bovill, 1996

Figure 3.1 Example of the Box Counting Technique



In the example of a twenty-eight size grid above, the number of boxes crossed by the lines of the window is equal to eighteen, the other ten are empty giving a complexity ranking of 18.

Table 3.2, "Interior Elevation Complexity," below, presents the values that were used to quantify the complexity of the selections. A good range of complexity values results.

Table 3.2. Interior Elevation Complexity

| Interior Elevation Number | Complexity (Number of Boxes) |
|------------------------------|---------------------------------|
| I1 | 18 |
| 12 | 10 |
| I3 | 6 |
| I 4 | 13 |
| 15 | 15 |
| 16 | 9 |

Again, this may be used in an attempt to understand any noted preferences of the general averages of the survey respondents as compared to the survey results for various personality types and specific demographic subsets.

Floor Plans

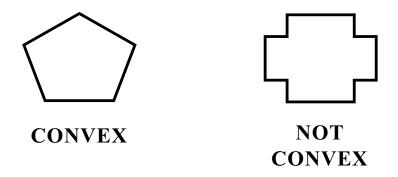
Parts of actual floor plans are used to assess the preference for spatial layout without overwhelming the participant with too much information inherent in a complete floor plan. A simple technique to establish complexity of the partial floor plans was drawn from studies on spatial syntax. The spatial syntax analysis field is

broad and far-reaching, but provides a wealth of information on analysis of architecture as noted in the literature review.

The concept of convex spaces in spatial syntax analysis to describe the layout was selected. So actually, the partial floor plans are arrangements of convex and non-convex spaces. Bedrooms were used for the same reason as discussed in the interior elevation section, in hopes that an intimate space arrangement would evoke a stronger reaction.

The differing partial floor plans were analyzed by how many convex spaces they contained. A convex space is defined as a bounded area, whether by walls or imaginary boundaries, that contains no acute angles within its borders.

Figure 3.2 A Graphical Description of Convex Spaces.



The selected partial floor plans were similar in function and normalized for size and detail. Unrelated details were deleted so as not to take up the participants' time in understanding the plans. By choosing only a few equal-function spaces, i.e. a master

bedroom and master bathroom with a second bedroom and a bath, it is hoped that the survey mitigated the confusion of trying to understand a whole house or too many spaces at once. Please refer to Appendix B for the survey partial floor plans and their counterpart convex space layouts.

The floor plans are lettered and the number of convex spaces contained in each are presented below in Table 3.5. There isn't a wide range of values with the plan complexity, however, that is in part due to the strict definition of the space criteria for this element.

Table 3.3 Floor Plan Complexity

| Plan | Convex Spaces |
|------|------------------|
| P1 | 12 |
| P2 | 16 |
| Р3 | 19 |
| P4 | 11 |
| P5 | 16 |
| P6 | 12 |

To summarize, the architectural element selection criteria and associated simple analysis of their complexities were generated to explain a general respondent preference by distinct personality types or demographic subsets. At the very least, the

preferences should validate existing research that has shown general preferences for architecture that has moderate complexity.

Data Gathering

A sampling of one hundred participants is considered to be statistically significant for personality type surveying, according to the research methodology presented by Wiggins and mentioned earlier in this chapter.³⁸ This opinion is based on the premise that the number of participants sought after needs to be enough to ensure that there is a strong showing in each of the personality traits. This is necessary because several of the personality types, at least for the Myers-Briggs categories, only comprise a small percentage of the population; e.g. the ISTJ personality type from the Myers-Briggs personality assessment method may only apply to 6% according to the Keirsey-Bates text.

Responses were tabulated using Microsoft Excel with multiple worksheets. Please refer to Appendix C for the general data worksheets. The data gathering was completely anonymous to the researcher, recorded using a numerical identification that related to the exact time that the respondent took the survey, and only tied to an identification of the respondent by the server. Decoding by the webmaster could be

³⁸ Wiggins, 1973

used to identify the respondents' internet address, but that was only performed once and only at the request of a respondent to ensure that the data had been properly recorded. If respondents wanted the results of the survey, they recorded an email address. That list will be kept by the webmaster for the entire length of the research.

Analysis Techniques

An overall or general preference tendency based on an average of the respondents ratings will be calculated first and used as the base preference against which other subsets of personality and demographics are compared. A separate preference data set will be developed for each of the other personality defining measures from the demographic data and the personality test. A simple average of the total rating values for all respondents, or mean, was used to indicated the overall preference. The highest average values are referred to as the "most-liked (ML)" elements and the lowest average values are referred to as the "least-liked (LL)" elements. Since the design process is more about weeding out what clients don't like, the least-liked elements may prove to be as interesting of a predictor as the most-liked.

The personality test resulted in data that could be grouped into sixteen categories of personality known as the Myers-Briggs personality types, into the four

temperament types described by the Keirsey-Bates text, and also into the bipolar traits of introversion or extroversion. The analysis of the preferences was performed individually for the sixteen personality types, the four temperament types and the bipolar traits of introversion/extroversion. A brief explanation of each of the personality types and temperament types is presented below in Tables 3.6 and 3.7 to help the reader understand certain abbreviations used throughout this paper and the references in the results and conclusions.

Table 3.4 Myers-Briggs Personality Types³⁹

| Myers-Briggs Bipolar Traits | Abbreviations | Resulting Sixteen Personality Types | | | |
|--------------------------------|---------------|-------------------------------------|------|------|------|
| Introvert-Extrovert | I/E | ISTJ | ISTP | ESTJ | ESTP |
| Sensing-Intuitive | S/N | INTP | INFP | ENTP | ENFP |
| Thinking-Feeling | T/F | INTJ | INFJ | ENTJ | ENFJ |
| Judging-Perceiving | J/P | ISFP | ISFJ | ESFP | ESFJ |

The sixteen personality types are derived from all of the possible combinations of the four bipolar traits. In short, it is considered that a persons character can be described by the combination of these four bipolar traits into sixteen personality types. The person then is either predominately introverted, shy, or anti-social (I) OR extroverted, outgoing or sociable (E), AND usually behaves practically, sensibly,

³⁹ Keirsey & Bates, 1984

fact-based (S) OR intuitively, spontaneously, fantasy-based, (N) AND makes most choices based on impersonal, logical thinking (T) OR "personal feelings" and emotions (F) AND normally reacts decisively, with a sense of closure or clear purpose (J) OR more often remains undecided, flexible, unsure until forced into a decision (P). ⁴⁰ Everybody in reality is varying degrees of the four bipolar traits, not simply one or the other. These degrees can also change over the person's life time.

Table 3.5 Keirsey-Bates (K-B) Temperaments⁴¹

| Temperament | Corresponding Bipolar Traits from Myers-Briggs Theory | | Descriptions |
|-------------------------------------|-------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------|
| SP "Dionysian" (38% of population) | Sensing | Perceiving | Impulsive; creative; exciting; hungers for action; important to be seen as a "free spirit;" lives in the immediate moment; colorful |
| SJ "Epimethean" (38% of population) | Sensing | Judging | Cares for others; tradition is important; conservation is motivating, defined by belonging; very responsible and often over-committed |

⁴⁰ Ibid.

Keirsey & Bates, 1984

| NT "Promethean" (12% of population) | Intuitive | Thinking | Important to understand the power over nature; must be competent; defined by "shoulds;" seemingly arrogant and individualistic; very self-critical; likes rearranging their environment |
|-------------------------------------|-----------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NF "Apollonian" (12% of population) | Intuitive | Feeling | "Extraordinary" individuals; unique; driven by self-actualization; little interest in commercial ventures; can be an intellectual butterfly going from idea to idea; centered on people |

So it can therefore be seen that the Keirsey-Bates temperaments are based on a recombination of three of the bipolar traits as defined by the Myers-Briggs theory, excluding the Introversion/Extroversion traits. As stated before, the temperament of an individual is considered more useful according to the Keirsey-Bates theory in describing how a person behaves as opposed to the sixteen Myers-Briggs personality types which reportedly merely describes the differing characters of individuals.

CHAPTER FOUR

ANALYSIS RESULTS

Data Verification

Survey verification is important, especially for the abbreviated Myers-Briggs testing format. Generally, the abbreviated Myers-Briggs survey used in this research resulted in respondent percentage values that were fairly close as compared to the percentage values obtained from the standard, longer test. The smaller the percentage was, the more deviation there was from the standard test percentages listed in the Keirsey-Bates text. Table 4.1 shows the percentage comparisons for both the Myers-Briggs personality types and the Keirsey-Bates temperament types. It was the intent of using the abbreviated test to reduce frustration in taking the survey.

⁴² Keirsey-Bates 1984

Table 4.1 Myers-Briggs and Keirsey-Bates Respondent Percentages

| Myers- Briggs Type | Percentage of Survey Respondents | Percentage of General Population ⁴³ | Keirsey-Bates Temperament Type | Percentage of Survey Respondents | Percentage of General Population ¹⁹ |
|--------------------------|----------------------------------------|------------------------------------------------------|--------------------------------------|----------------------------------------|------------------------------------------------------|
| ESTP | 4 | 13 | | | |
| ISTP | 6 | 7 | SP | 22 | 38 |
| ESFP | 6 | 13 | | | |
| ISFP | 6 | 5 | | | |
| ESFJ | 6 | 13 | | | |
| ISFJ | 14 | 16 | SJ | 48 | 38 |
| ESTJ | 11 | 13 | | | |
| ISTJ | 17 | 6 | | | |
| ENTJ | 2 | 5 | | | |
| INTJ | 2 | 1 | NT | 10 | 12 |
| ENTP | 3 | 5 | | | |
| INTP | 3 | 1 | | | |
| ENFJ | 4 | 5 | | | |
| INFJ | 4 | 1 | NF | 20 | 12 |
| ENFP | 7 | 5 | | | |
| INFP | 5 | 1 | | | |

The webmaster verified that each response considered was a unique sample and duplicates were removed before analysis. The respondents are completely

⁴³ General population results were taken from from *Please Understand Me* by Keirsey and Bates. It should be noted that while trying to find a reliable source for this data, the percentage values were remarkably different from text to text.

anonymous to everyone but the server and, consequently, the webmaster. A time-dependent number is assigned for identification purposes, instead of using any personal information.

It was possible for a respondent to repeat the test, thereby entering two sets of data, but that is detectable by the webmaster and only one such incident of this occurred. The latter of the two datasets in this case was used for the analysis.

General Demographic Analysis

Table 4.2 displays the general demographic information of the survey respondents.

 Table 4.2
 Demographic Information

| Demographic | Information | Survey Respondents Answers |
|--------------------------------------------|---------------------|-------------------------------|
| A | Under 25 | 3% |
| Age | 25 - 34 | 14% |
| | 35 - 49 | 36% |
| | 50 and Over | 47% |
| Gender | Female | 67% |
| | Male | 33% |
| College Degree? | Yes | 70% |
| Have you lived in the | Yes | 91% |
| United States all of your life? | More than ten years | 7.5% |
| | Ten years or less | .5% |
| | Five years or less | .2% |
| | Never | .2% |
| Shy? | Yes | 26% |
| Construction Professional? | Yes | 17% |
| Design Professional? | Yes | 6% |
| Both Design and Construction Professional? | Yes | 3% |

The test had an overall respondent demographic that differs from the general population in several areas that may be important to note. Females represented 67 percent of the respondents, versus a general population percentage of 51.⁴⁴ There

⁴⁴ www.census.gov/

were significantly more college graduates than the general population percentage.⁴⁵ Most of the respondents have lived in the United States for all of their lives. This was considered an important demographic to sample as residential architectural preferences are considered extremely culturally biased. A total of 21 percent of the respondents are from the design or construction profession, which is also a much higher percentage than is present in the general population. This is an intended result as discussed earlier. The demographic data is used for analyzing the results with respect to gender and age and is presented below.

Table 4.2 displays the personality type variations in the survey versus the general population with respect to the Myers-Briggs results. Since the demographics vary as discussed above toward female and college graduates, it is expected that the percentages of types will vary. There appears to be a higher percentage of "SJs" and a lower percentage of "SPs". According to the website http://www.personalitypage.com/demographics, SJs are more educated than SPs on the whole, which aligns with the difference in the statistics. Finally, the Introverts outnumbered the Extroverts slightly, whereas in the Keirsey-Bates text it indicates that the people who consider themselves extroverts usually outnumber the introverts

⁴⁵ The United States Census Bureau in 2003 reported 27 percent of adults over 25 years of age have a college degree, according to their website http://www.census.gov/Press-Release/www/releases/archives/education/001863.html

by three to one. This is a notable difference in the percentage values of this survey as compared to the standard survey for Myers-Briggs personality determination.

Overall Preferences Comparison Data

The following table shows the preferences as averaged from all of the respondents survey results. These preferences will be used as a comparison basis for all other analyses. Where there are two preferences listed, the average values were within 0.05 points of each other, thus indicating a split in the preference.

Table 4.3 Overall Preference Data

| | Façade | | Interior | | Plan | |
|------------------|---------------|----------------|---------------|----------------|---------------|----------------|
| % of Respondents | Most Liked | Least Liked | Most Liked | Least Liked | Most Liked | Least Liked |
| 100 | F2/F6 | F4 | I1 | I3/I4 | P3/P5 | P1/P2 |

Verifying the Preferences for Complexity

The table below shows the overall preferences as they relate to the complexity of each element. "ML" stands for the most liked or highest average score, and "LL" stands for the least liked or lowest average score. A review of this table indicates a preference for the higher complexities for each element, and a low preference that falls in the moderate complexity range of our selections. Previously in the literature

review it was noted that existing research predicts preferences for moderately complex architectural designs. Comparing the survey data in Table 4.4 with this theory reveals that there was little preference for the elements with lower complexity, but it doesn't strongly support an overwhelming preference for the highest complexity elements. It might indicate that the elements used in this survey were closer in the subjective complexity range than other research selections, in other words, they were low to moderate range of complexity with no extremely complex elements to choose from.

Table 4.4 Verification of Preference for Complexity

| Element | Complexity | Most Liked / Least Liked Selections |
|---------|------------|-------------------------------------|
| F1 | 11 | |
| F2 | 18 | ML |
| F3 | 14 | |
| F4 | 14 | LL |
| F5 | 19 | |
| F6 | 20 | ML |
| I1 | 18 | ML |
| 12 | 10 | |
| 13 | 6 | |
| I4 | 13 | LL |
| 15 | 15 | LL |
| 16 | 9 | |
| P1 | 12 | LL |
| P2 | 16 | LL |
| Р3 | 19 | ML |
| P4 | 11 | |
| P5 | 16 | ML |
| Р6 | 12 | |

Analysis of Preferences for Introvert/Extrovert Trait

Table 4.5 below shows the data analysis after separating the respondents into introverts and extroverts. There are slight deviations to note, but if anything can be deduced from this data it is that the separation of the data using the introvert/extrovert bipolar trait shows no significant deviation in preferences from the patterns of preference for the total respondents. This is contrary to the assumptions found in the literature review that indicated there would be very different preferences between two individuals with opposite social tendencies.

Table 4.5 Introvert/Extrovert Preferences

| % of Respondents | I/E | Façade | | Interior | | Plan | |
|------------------|-----------|--------|----|----------|-------|-------|-------|
| | | ML LL | | ML | LL | ML | LL |
| 100% | All | F2/F6 | F4 | I1 | I3/I4 | P3/P5 | P1/P2 |
| 43% Extrovert | | F2/F6 | F4 | I1 | I4 | Р3 | P1 |
| 57% | Introvert | F2/F6 | F4 | I1 | I3/I4 | P3/P5 | P1/P2 |

Analysis of Preferences for Personality Types

The following tables present the most liked (ML) preferences for the respondents when separated by both Myers-Briggs personality types and Keirsey-Bates temperament types. What is most interesting is the consistent variation in all elements by one and possibly two temperament types. These areas are shaded within the table. Basically, the The overall preferences of the total respondent data is shown in each table as a reminder and doesn't vary. A quick look at each table reveals that the NT temperament preferences shows a variation from the overall preferences, especially when the Introvert/Extrovert trait is considered. Other variations are noted in detail below.

Table 4.6 Most-Liked Façade Preferences by Personality and Temperament Type

| Personality Type (Myers-Briggs) | Most Liked Façade Preference | Façade Type | | Total Respondent Preference |
|------------------------------------|------------------------------------|-------------|---------|-----------------------------------|
| ESTP | F6 | | | |
| ESFP | F2 | CD | G 1'4 | G 1'4 |
| ISTP | F6 | SP | Split | Split |
| ISFP | F2 | | F2/F6 | F2/F6 |
| ISTJ | F6 | | | |
| ESFJ | F6 | G I | G. | G 114 |
| ESTJ | F6 | SJ | Strong | Split |
| ISFJ | F6 | | F6 | F2/F6 |
| INTP | F2 | | | |
| INTJ | F2/F6 | NE | W 1 F2 | G 114 |
| ENTJ | F3 | NT | Weak F2 | Split |
| ENTP | F4 | | | F2/F6 |
| INFP | F2 | | | |
| INFJ | F2/F6 | NE | F2 | C1:4 |
| ENFP | F2 | NF | F2 | Split |
| ENFJ | F2/F6 | | | F2/F6 |

ENT's preferred F3 or F4 instead of F2/F6 for everyone else. These façades are the Georgian style house and the Southwest style house; both had a complexity rating of 14, or mid-scale. The F2 and F6 selections were higher in complexity. It would appear then that the INT temperament preferred the higher complexity elements contrary to what existing research would indicate. Interestingly, F4 was the overall

least liked façade for all of the respondents as a whole, but the most liked for the ENTP temperament, which is a striking variation.

Table 4.7 Interior Preferences by Personality and Temperament Type

| Personality Type (Myers-Briggs) | Interior Preference | Temperament Type (Keirsey-Bates) | Interior Preference | Overall Preference | |
|---------------------------------|------------------------|----------------------------------------|------------------------|-----------------------|--|
| ESTP | I1 | | | | |
| ESFP | I1 | SP | I1 | I1 | |
| ISTP | I1 | 22 | | | |
| ISFP | I5 | | | | |
| ISTJ | I1 | | | | |
| ESFJ | I1 | SJ | Strong I1 | I1 | |
| ESTJ | I1 | | | | |
| ISFJ | I1 | | | | |
| INTP | 15 | | | | |
| INTJ | I 1 | NT | 15 | I1 | |
| ENTJ | 15 | - 1 1 | 20 | | |
| ENTP | 15 | | | | |
| INFP | 15 | | | | |
| INFJ | I 1 | NF | 15 | I1 | |
| ENFP | I 1 | | | | |
| ENFJ | I1 | | | | |

The other choice in Table 4.7 which emerges is I5, a symmetrical window arrangement that has slightly less glazing area than the overall preference of I1, is similar in design, and is the next step down the complexity scale from I1 which is the highest in complexity in this range of values. The NT and NF temperaments, especially the ENT's again, showed a distinct preference for I5, another lesser complexity selection like the facade preference variation, while the SJ temperament type overwhelmingly preferred the I1 selection.

Table 4.8 Plan Preference by Personality and Temperament Type

| Personality Type | Plan | Temperament | Plan | Overall | |
|------------------|------------|-----------------|-------------|------------|--|
| (Myers-Briggs) | Preference | Туре | Preference | Preference | |
| | | (Keirsey-Bates) | | | |
| ESTP | Р3 | | | | |
| ESFP | P5 | SP | P5 | P3/P5 | |
| ISTP | P5 | | | | |
| ISFP | P5 | | | | |
| ISTJ | Р3 | | | | |
| ESFJ | Р3 | SJ | Split P3/P5 | P3/P5 | |
| ESTJ | P5 | | | | |
| ISFJ | P5 | | | | |
| INTP | Р3 | | | | |
| INTJ | P3/P4 | NT | Slight P3 | P3/P5 | |
| ENTJ | P5 | | 3.18.1.1 | | |
| ENTP | P6 | | | | |
| INFP | Р3 | | | | |
| INFJ | Р3 | NF | Slight P3 | P3/P5 | |
| ENFP | P5 | · - | 6 | | |
| ENFJ | P2 | | | | |

The plan preference variations shown in the shaded values once again deviate in the NT temperament and slightly in the NF temperament. Elements P4 and P6 are

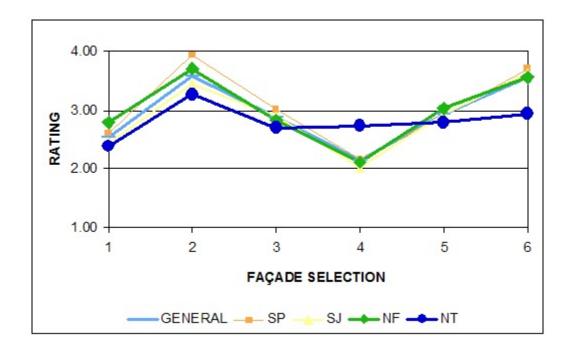
in the low range of the selections' complexity scale for the plan elements. Element P2, selected by the ENFJ personality type is in the middle range of the survey's element complexity. Elements P3 and P5, the selections generally preferred by the respondents, are the two highest complexity elements in the plan portion of the survey. So once again the variation in preference is within the NT and NF temperament types and where the preferences tended to be towards elements with lower complexity values than the general respondent's preference.

What is starting to be evident is that by grouping the respondents into temperament types instead of the sixteen personality types or the simple introvert/extrovert bipolar trait, different patterns in preferences start to emerge primarily for the NT temperament, but also somewhat for the NF temperament. There are some other minor variations, but none as consistent as the those appear to be.

If these results can be viewed in a different way, then perhaps a clearer understanding can be had as to what the different patterns may be for the NT and NF temperaments. All of the data was arranged in graphical formats to see if there emerged any other patterns to consider further. A few of the graphs observed revealed the same variations as noticed in Tables 4.6, 4.7 and 4.8 presented earlier in this chapter.

The following graphical representations of the preference patterns display the NT and NF patterns that appear to differ from the general preference patterns.

Figure 4.1 Facade Preferences for Temperament Type



For the facade preference, each of the temperaments, (SP, SJ, NF, NT) is mapped onto a scale of the average rating (1-4) on the y-axis as graphed per each selection number, F1-F6. What can be seen in Figure 4.1 is a lower preference score for most of the facade selections, and a deviation in rating from the least liked selection F4 for the NT temperament. The graph was then further divided into the introverted NT's and the extroverted NT's to attempt to visually confirm the data presented in tabular format above. With the temperament data separated into the bipolar I/E trait categories the resulting graphical data shows that the extroverted NT temperament is mostly responsible for the deviation in the pattern of preferences for facades. In fact there is very little preference shown for any of the selections for facades by the

extroverted NT temperament. This is represented in Figures 4.2 ad 4.3 below. For the F2 selection, where the introverted and extroverted NT's differ noticeably, the introverted NT's preferred the more complex F2 selection more than the extroverted NT's did.

Figure 4.2 Facade Preferences for Introverted NT & NF Temperaments

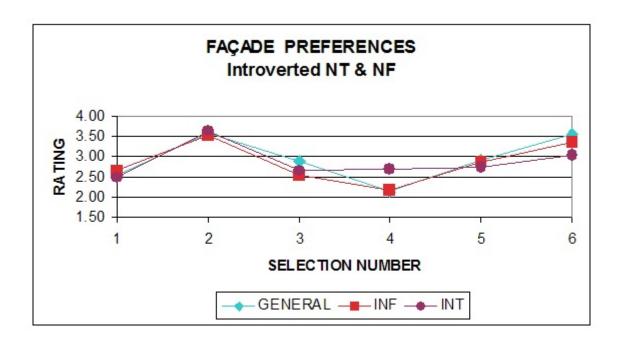
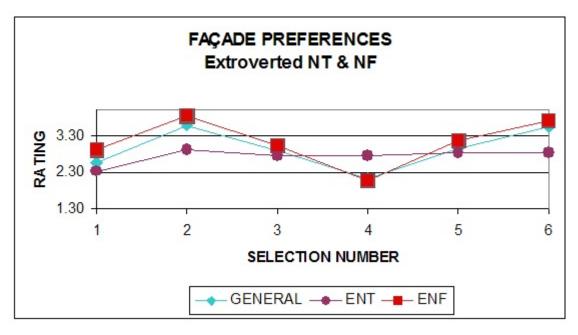


Figure 4.3 Facade Preferences for Extroverted NT & NF Temperaments



A slightly different result appears in the graphical representations for the NF temperament to differ in the preference pattern for the interior elevations. It was noted earlier in Table 4.7 that the NF's preferred a different interior elevation selection than the other temperaments. If the same separation into the introverted and extroverted trait is applied to the NF and NT preference patterns graphically as was done for the facade preferences, it appears that the introverted NT's are responsible for the variation in preference from the I1 selection to the I5 selection as shown in Figures 4.4's and 4.5. I5 is a higher complexity selection than I1, so in this case the introverted temperament preferred a higher complexity selection thus further challenging the assumption that introverted persons would much prefer architectural elements lower in complexity.

Figure 4.4 Interior Elevation Preferences for Introverted NT & NF Temperaments

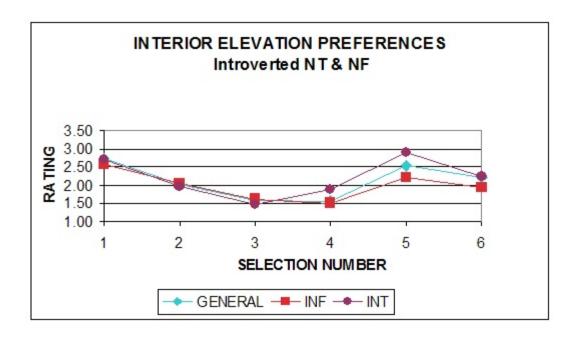
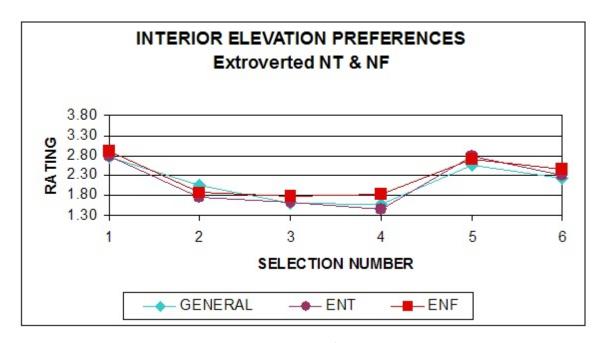


Figure 4.5 Interior Elevation Preferences for Extroverted NT & NF Temperaments



Finally, with a graphical view of the plan preference pattern variations for the NT temperament mentioned above another curious pattern emerges. As shown in Figures 4.6 and 4.7 below, the introverted NT's show a stronger like and dislike than their extroverted counterparts. The same can be said for the NF's from this graph as well. This result is not as obvious in the tabular presentation of the data. Also upon closer observation of Figures 4.2 through 4.5 it appears that the introverted temperaments display stronger likes and dislikes for all of the selections than do their extroverted counterparts.

Figure 4.6 Plans preferences for Introverted NT & NF Temperaments

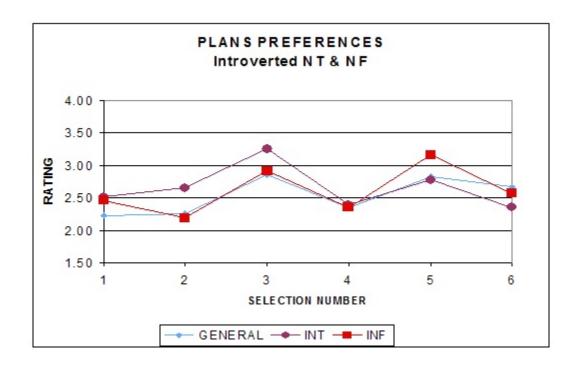
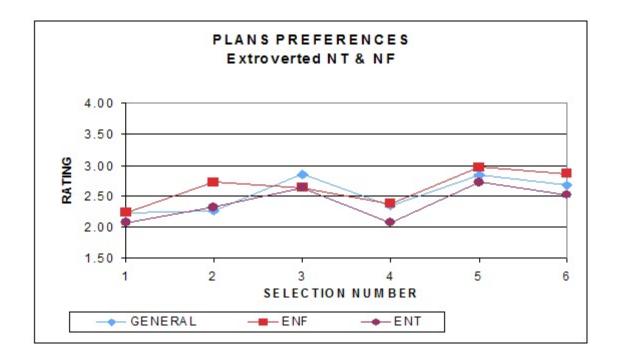


Figure 4.7 Plans Preferences for Extroverted NT & NF Temperaments



Gender-Based Preference Patterns

Deviating from the notion of patterns in personality type preferences, the observation of patterns via the separation of the data by demographics can be seen in a couple of the more obvious typologies of respondents. Gender is one that has already been noted as causing distinct differences in architectural preferences.⁴⁶ The gender based preferences don't vary from the overall preferences significantly, but what is interesting to note is that they do differ from each other as shown in Table 4.9.

Table 4.9 Gender Based Preference Patterns

| | | Faç | Façade Interior | | Plan | | |
|------|--------|-------|-----------------|----|-------|-------|-------|
| | | ML | LL | ML | LL | ML | LL |
| 100% | All | F2/F6 | F4 | I1 | I3/I4 | P3/P5 | P1/P2 |
| 33% | Male | F2 | F4 | I1 | I4 | Р3 | P2 |
| 67% | Female | F6 | F4 | I1 | 13 | P3/P5 | P1 |

What is consistent in the differing preferences is the overall preference for more complex façade selections (F6 has a slightly higher complexity value than F2) by females and the stronger dislike of complexity in the interior and plan selections by the males. Stated another way, I4 and P2, the least liked elements by males, are

⁴⁶ Cooper Marcus

moderate in complexity values while I3 and P1, the least liked elements by females, are low in complexity for the selections (13 and 16 vs. 6 and 12).

Age-Based Preference Patterns

Since little research was found that correlated the preferences of older persons to architectural elements, this seemed like a demographic that would be worth reviewing in the context of this research. Any pattern at all would be something to note that could have significant implications on the design process and give the designer more of a starting point than just the basics that concern most all older persons. The data analysis did reveal some interesting variations from the general trends that might provide some insight.

Table 4.10 Age-Based Preference Patterns

| | | Façade | | Inter | ior | Plan | |
|------|---------|--------|----|-------|-------|-------|-------|
| | | ML | LL | ML | LL | ML | LL |
| 100% | All | F2/F6 | F4 | I1 | I3/I4 | P3/P5 | P1/P2 |
| 4% | < 25 | F2/F6 | F4 | 16 | I3 | P6 | P2 |
| 14% | 25 - 34 | F2/F6 | F4 | I1 | I3 | Р3 | P2 |
| 36% | 35- 49 | F6 | F4 | I1 | I3/I4 | P3/P5 | P1 |
| 46% | 50 + | F6 | F4 | I1 | I4 | P3/P5 | P4 |

From Table 4.10 above, it can be noted that there is a clearer preferences for façade F6, in this case the Victorian façade, with the higher age groups as evidenced by the lack of a split in the preference. F6 is also the most complex design element. Also interesting to note that at the highest age group, the least liked preference for the plan element, P4, deviates from all of the rest of the preferences. P4 is the least complex of the plans. So it could be stated that in the highest age group there appears to be a clearer preference for the a facade of greater complexity and a clearer dislike for a lower complexity plan, while the interior element preferences are similar to the other age groups.

For the under 25 age group the interior and plan most liked preferences deviated from the other age groups' preferences. The youngest age group preferred I6 vs. I1 and preferred P6 to P3/P5. I6 and P6 are lower in complexity than the overall preferred selections.

Therefore, potentially, the younger respondents appeared to prefer interior views and plans lower in complexity than the other age groups and the older respondents preferred facades of higher complexity than the other age groups. Given that the younger respondents tested more extroverted than the older respondents, it appears that this result also challenges the assumption found in the literature review that extroverts would prefer more complexity in architecture than introverts.

CHAPTER FIVE

CONCLUSIONS

This research, although not producing any overwhelming statistical data to support a strong correlation between personality and preference, has set up a few interesting results that might be worth further consideration. It also confirms a few of the previously researched ideas about preference.

The main points of interest arising from this research are:

1. Analysis of a simple separation of introvert and extrovert personality trait and its associated data did not reveal any particular patterns of preferences. This appears to be in direct contrast to many theories, casual and otherwise, on personality and preferences for architectural elements. If the single bipolar trait of introversion and extroversion is not enough to predict preference then the question becomes a bit more complex and the subtleties of qualifying architectural element preferences harder. There also did not appear to be any consistent correlation between the I/E trait and complexity of the selections. A slight preference for exactly the opposite of the popular theories was

observed after observing the data for certain temperaments split into the bipolar I/E trait categories. That is for the temperament type NT, it was noted in a graphical presentation of the survey results that the introverted NT's may slightly prefer elements that were more complex than the extroverted NT's. This counters the assumption noted in the literature review about extroverts and introverts preferring more and less complexity, respectively.

2. Using the Keirsey-Bates temperament theory of personalities, preference patterns which were different from the general respondents' preferences were evident for the temperament of NT and somewhat evident for the NF temperament. The preference patterns for NT's for the façades indicated that there was no clear preference between any of the selections, especially for the extroverted NT's. The Keirsey-Bates text describes the NT's as architects and scientists, who are compelled to rearrange their environment. Therefore, if one group were to have been predicted to deviate, based on a description of temperament type, it might easily have been the NT's since their temperament is described as the most environmentally sensitive. In fact, the Keirsey-Bates text sites the most famous NT as Howard Roarke, the architect protagonist in Ayn Rand's "The Fountainhead". This alone is interesting

- enough to warrant another attempt at correlating architectural preferences and the aspect of personality known as temperament type.
- 3. Regardless of personality, degree of extroversion or temperament type, the respondents did prefer elements that were higher in complexity, based on a simple measure of complexity for all elements. Since it could be argued that none of the elements was extremely complex mathematically, this result might therefore indicate at least a general dislike for the elements that were lower in complexity. Verifying preferences for varying complexities wasn't the focus of this research, but as stated in the literature review, previous research has shown that subjects prefer objects in the moderate ranges of complexity.
- 4. Demographic differences appear to generate preference patterns for architectural elements that while suspected by design professionals and explored in other ways, are also not yet fully captured in evidence-based design research. Studies concerned with age and gender demographics and preference correlation appear to stop at the house defined as a single entity in the midst of a neighborhood, instead of assessing preferences for the individual parts of the house that make up the whole. The following results

for gender and age show patterns that are worth mentioning and certainly worth more attention than they have been given in the past.

- (1) Gender based preference differences were evident and indicated that females prefer designs that are more complex. The gender categories also clearly differed with each other in every element category for either the most liked or the least liked.
- (2) Age based preference differences were also noted between the youngest and oldest respondents, while the middle age range paralleled the general respondent preferences. Contrary to what might be suspected, younger respondents, who were also percentage-wise more extroverted, preferred less complex plans and interior elevations than did the older respondents.

 Complementing that finding was the observance that the older

respondents, who have been noted to become more introverted as time passes, preferred the more complex facades. This result continues to refute the previously discussed assumption that extroverts would prefer more complexity because they need the additional stimuli to feel satisfied.

So given the lack of substantial data linking personality to preference in this research effort, this research actually produced potentially fertile topics to explore further, but did not produced any overwhelming evidence or conclusive results to aid future designers. It has merely indicated preference patterns, that are interesting to note and seem to contradict commonly held notions of personality and architectural preferences. If further research were to be conducted control factors to consider in a new methodology might include the strict use of elements of consistent complexity while varying another visual component of the element or de-emphasizing complexity in favor of varying the value of order of a particular style. While this research employed the Myers-Briggs testing method for identification of the personality categories, other methods for defining personality, such as a more focused temperament assessment, or using the "Big Five" personality traits as mentioned in the literature review, could be used. Other research concerned with the built environment has successfully used the "Big Five" personality trait identification methodology instead of the Myers-Briggs methodology and this might offer new insights to this thesis question. Since we have apparently ruled out the trait of extroversion as having an overwhelming influence on architectural element preferences, there would then be only four of the "Big Five" left to assess: agreeableness, conscientiousness, emotional stability, and openness to experience. Given the number of different ways that this test could be repeated by varying the elements' composition, by

varying the personality assessment methodology, by filtering for other demographics or by changing the data collection techniques, this was by no means an exhaustive study of the proposed thesis statement. The data collection methodology, whatever the means, would best be had by the simplest, most revealing assessment possible, so as not to demand that the architect be a trained psychologist as well.

Finally, this research implies that perhaps with other research methodologies, specific preference patterns might be unearthed based on the definition of temperament by Keirsey - Bates. If further more rigorous research proved fruitful, then temperament, and perhaps other characteristics of the person such as age and gender could form a separate design programming criteria in addition to the impersonal cost, schedule and location criteria currently used. If the architectural design process could begin with a subset of choices specifically chosen for the individual based on the person's inner character and the outwardly social constraints, then the process might become much more efficient, certain, and valuable to the consumer. The resulting residence would then be a reflection of the client's inner true self and their outer social self, and optimally be the merging of dreams and reason into architecture that is truly a perfect fit, restorative, efficiently designed and so much more than it is at present, because, in addition to being merely custom-designed, it would be custom-fitted.

CHAPTER SIX

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LIST OF APPENDICES

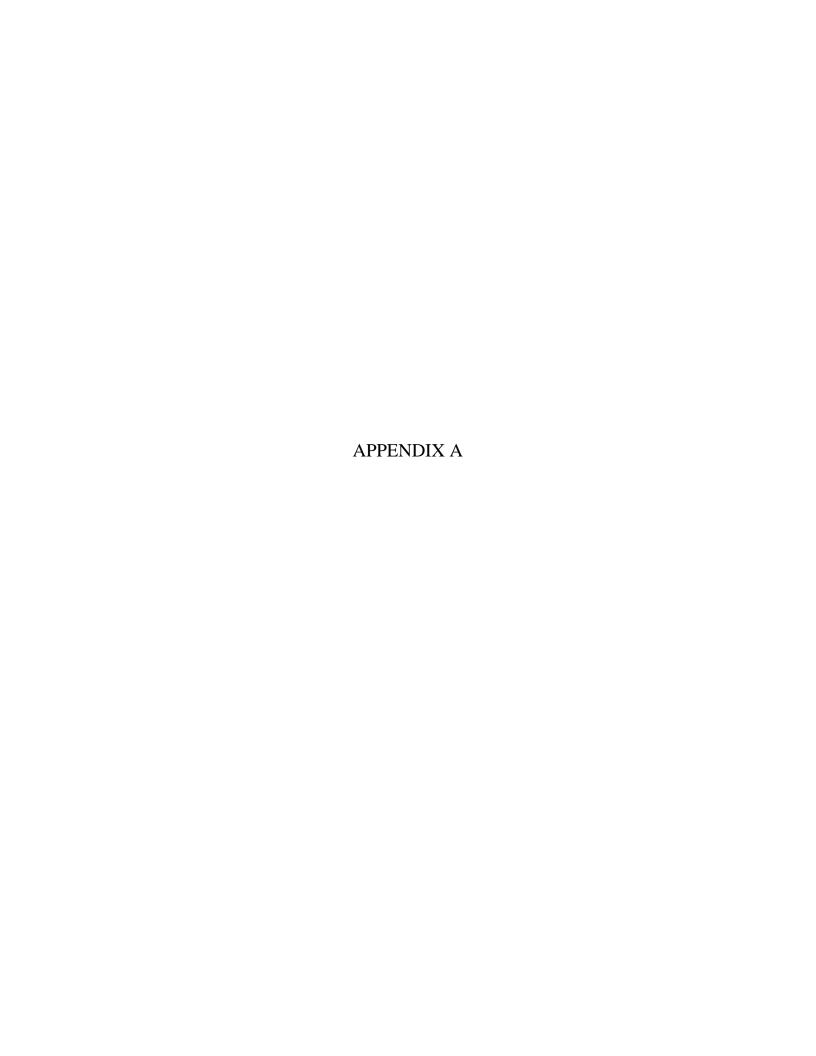
Appendix A Survey Detail

Appendix B Architectural Elements Graphics

Appendix C Original Data

Appendix D Data Analysis Spreadsheets

Appendix E WSU Human Subject Research Approval



M. Sc. in Architecture Thesis

Kristyn Clayton

Washington State University Spring 2006

Personality and Architectural Preferences

Kristyn Clayton. The purpose of this research is to assess the predisposition of individual architectural preference with respect to personality types. It is part of the research for a Masters of Science Thesis in Architecture for

Institutional Review Board (IRB). purposes of writing a Masters thesis. This study has been reviewed and approved by the WSU survey you are implying consent to a voluntary data collection research activity intended only for The survey is completely anonymous and the results will not be assessed individually. By taking this

If you have questions about your rights as a participant please contact the WSU IRB at (509) 335 7951

irb@wsu.edu

This survey has been divided into two parts.

preference survey. This web page will guide you through the survey. This entire survey shouldn't take Part one is a personality test based on Jung-Myers-Briggs typology. Part two is an architectural more than ten minutes.

Should you have any questions before or after the test please feel free to contact me at (509) 430 2159 or by email:

kristynclayton@charter.net

Continue

Answers to Online Survey

Please answer the following questions:

Are you a design professional? Yes

No

Are you a construction professional? Yes No

Are you male? Yes No

Are you under 25?

Do you have a college degree? Yes No

Do you consider yourself shy? Yes No

Have you lived in the USA: All my life

Continue

The first preference has to do with how you're **ENERGIZED**. Take a minute to look these two options over and give it some serious thought...

| Choice B | Choice A |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Now, think carefully. You might want to say you're both. We all are. But the key is, "what are you more COMFORTABLE doing?" Go with your instinct, and pick what you feel is the best answer. | Now, think carefully. You might want to are you more COMFORTABLE doing? the best answer. |
| Content being on the sidelines. | Likes to be center of attention. |
| Would prefer to socialize in small groups or just do job " by myself." | Likes working or talking in groups |
| Time alone to recharges batteries. | Hates to do nothing. On the go. |
| Think carefully before speaking. | Blurt things out w/o thinking. |
| Proceed cautiously in meeting people participate in selected activities. | Meet people readily and participate in many activities. |
| Concentrate well. | Be distracted easily. |
| Keep enthusiasm to self. | Communicate with enthusiasm. |
| Listen more than talk. | Talk more than listen. |
| Avoid crowds and seek quiet. | Tolerate noise and crowds. |
| Column B | Column A |

es es

These preferences have to do with how you GATHER information...or what you pay attention to. Try to forget about the way the words are usually used.

| Choice B | Choice A |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| . But one way is used more often. Try to think ith. | Again, we all gather information in both ways. But one way is used more often. Try to think about which one you feel most comfortable with. |
| Value imagination and innovation. | Value realism and common sense. |
| Leap around in a roundabout way. | Methodical. |
| Use new and different ways to solve problems and teach solutions. | Appreciates standard ways to solve problems. |
| Values change in relationships. | Likes predictable relationships. |
| Rely on hunches. | Rely on past experiences. |
| Behave imaginatively. | Behave practically. |
| Tend to be general and figurative; use metaphors and analogies. | Tend to be specific and literal; give detailed descriptions. |
| Focus on possibilities. | Focus on actual experience |
| Value different or unusual methods achieved via inspiration. | Value solid, recognizable methods achieved in step-by-step manner. |
| Learns new things through general concepts. | Learn new things by imitation and observation. |
| Column B | Column A |

This category deals with how we make decisions and reach conclusions...

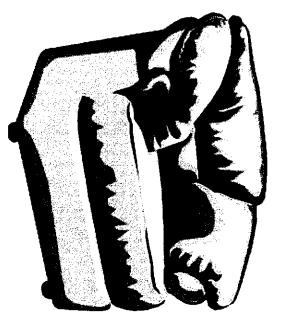
| Choice B | Choice A |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------|
| s "more like you"? | Get the picture? Which one just jumps out as "more like you"? |
| Appreciate frequent queries as to my emotional state | Tolerate occasional queries as to my emotional state in relationships |
| ANY feeling is valid. | Feelings valid if they're logical. |
| Like to please others; show appreciation. | See others' flaws critical. |
| Note how an option has value and it affects people. | Notice pros & cons of each option. |
| Expect the world to recognize individual differences. | Expect world to run on logical principles. |
| Deal with people compassionately. | Deal with people firmly, as needed |
| Choose tactfulness over truthfulness. | Choose truthfulness over tactfulness. |
| Notice when people need support. | Notice ineffective reasoning. |
| Agree more with others' findings, 'cause people are worth listening to. | Question others' findings, 'cause they might be wrong. |
| Decide more with my heart. | Decide more with my head. |
| Have harmony as a goal. | Have truth as an objective. |
| Column B | Column A |

This one has to do with the LIFESTYLE you adopt.

| Choice B | Choice A |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| st "more like you" like an old pair of jeans? | Again, you get the picture. So, which one just "more like you" like an old pair of jeans? |
| Tentative. Flexible. Spontaneous. | Settled. Organized. |
| Would rather do whatever comes along. | Feel better with things planned. |
| Ignore "to do" list, even if you made one. | Like checking off "to do" list. |
| See time as a renewable resource, and see deadlines as elastic. | See time as a finite resource, and take deadlines seriously. |
| Enjoy surprises and like adapting to last- minute changes. | Dislike surprises & want advance warnings. |
| Keep my life as flexible as possible so that nothing's missed. | Work for a settled life, with my plans in order. |
| Enjoy starting things. | Enjoy finishing things. |
| Prefer to keep things open. | Feel better after making decisions |
| Like adapting to new situations. | Prefer knowing what they're getting themselves into |
| Seek to adapt my life and experience to what comes along. | Prefer my life to be decisive, imposing my will on it. |
| Column B | Column A |

Example

How well do you like this style of chair?



I don't like it at all somewhat I like it I like it better than most I like it a lot, but might not choose to buy it I really like it and would buy it

Continue

... 5.

How well do you like this style of home?



I don't like it at all

I like it somewhat

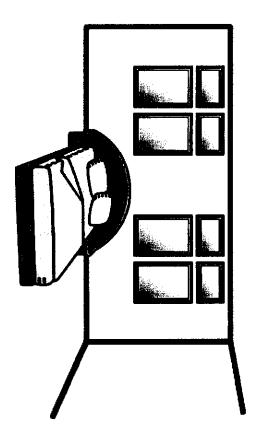
I like it better than most

I like it a lot, but might not want to live in it

I really like it and would like to live in it

Continue

How well do you like this as a bedroom window arrangement?



I don't like it at all

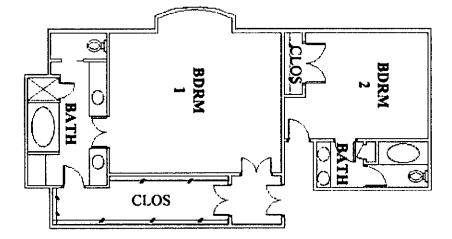
I like it somewhat

I neither like it nor dislike it

I like it better than what I have now

I really like it and wish it were in my bedroom

Continue



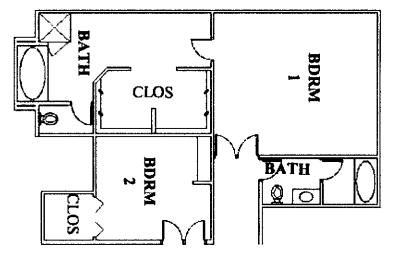
I don't like I like it it at all somewhat

I like it the same as what I have now

I like it better than what I have now

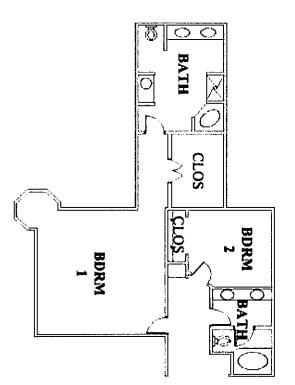
I love it and wish it were my house

Continue



I don't like it at all somewhat I like it I like it the same as what I have now I like it better than what I have now I love it and wish it were my house

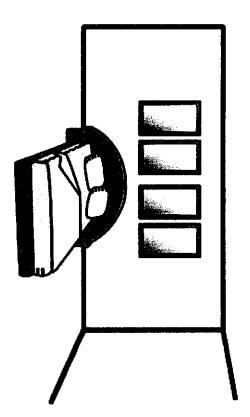
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I don't like it at all somewhat I like it I like it the same as what I have now I like it better than what I have now I love it and wish it were my house

Continue

How well do you like this as a bedroom window arrangement?



I don't like it at all

I like it somewhat

I neither like it nor dislike it

I like it better than what I have now

I really like it and wish it were in my bedroom

Continue

How well do you like this style of home?



I don't like it at all

I like it somewhat

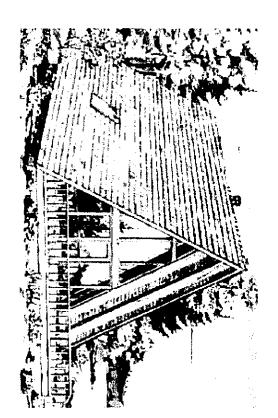
I like it better than most

I like it a lot, but might not want to live in it

I really like it and would like to live in it

Continue

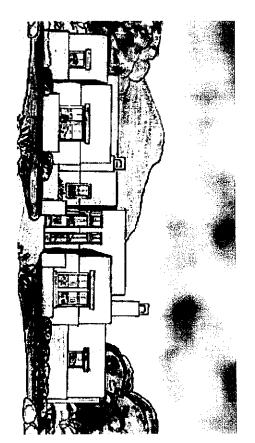
How well do you like this style of home?



I don't like it at all somewhat I like it I like it better than most I like it a lot, but might not want to live in it would like to live in it I really like it and

Continue

How well do you like this style of home?



I don't like it at all

I like it somewhat

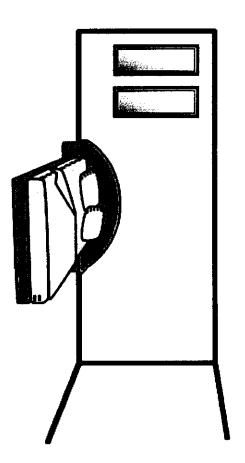
I like it better than most

I like it a lot, but might not want to live in it

I really like it and would like to live in it

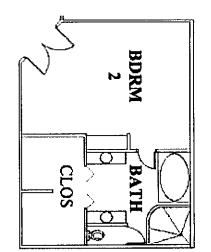
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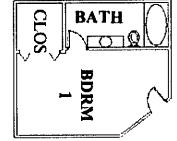
How well do you like this as a bedroom window arrangement?



I don't like it at all somewhat I like it I neither like it nor dislike it I like it better than what I have now I really like it and wish it were in my bedroom

Continue





I don't like it at all

I like it somewhat

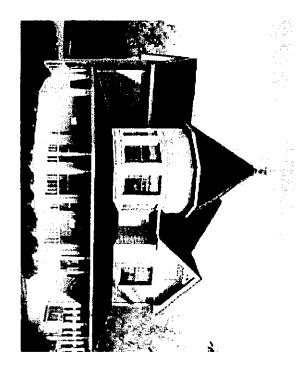
I like it the same as what I have now

I like it better than what I have now

I love it and wish it were my house

Continue

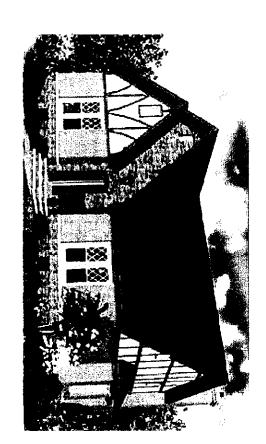
How well do you like this style of home?



I don't like it at all somewhat I like it I like it better than most I like it a lot, but might not want to live in it would like to live in it I really like it and

Continue

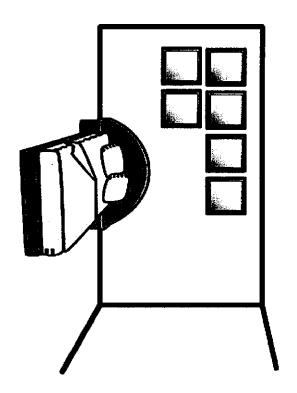
How well do you like this style of home?



I don't like it at all somewhat I like it I like it better than most I like it a lot, but might not want to live in it would like to live in it I really like it and

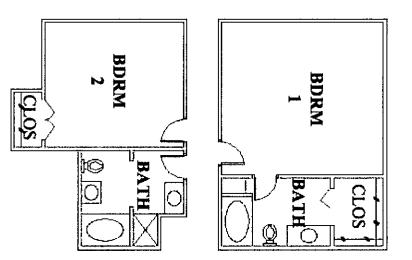
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How well do you like this as a bedroom window arrangement?



I don't like it at all somewhat I like it I neither like it nor dislike it I like it better than what I have now I really like it and wish it were in my bedroom

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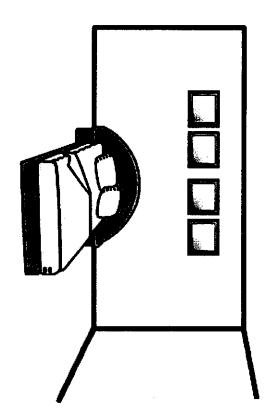


I don't like Continue it at all somewhat I like it I like it the same as what I have now I like it better than what I have now I love it and wish it were my house

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A-22

How well do you like this as a bedroom window arrangement?



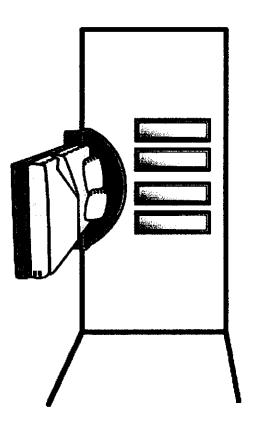
I don't like it at all somewhat I like it I neither like it nor dislike it I like it better than what I have now I really like it and wish it were in my bedroom

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How well do you like this as a bedroom window arrangement?

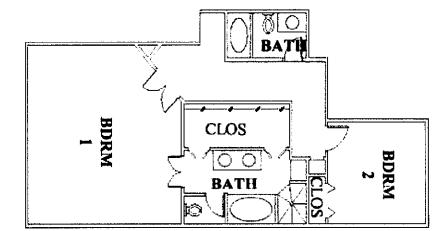


I don't like it at all somewhat I like it I neither like it nor dislike it I like it better than what I have now I really like it and wish it were in my bedroom

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I don't like I like it I like it the same as it at all somewhat what I have now

I like it better than what I have now

I love it and wish it were my house

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Thanks for your help on this research. Results will be emailed out in the late summer of 2006 if you are interested. Your email will only be used to send out the results of the survey (we promise).

Email address:

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ARCHITECTURAL ELEMENTS GRAPHICS

APPENDIX B









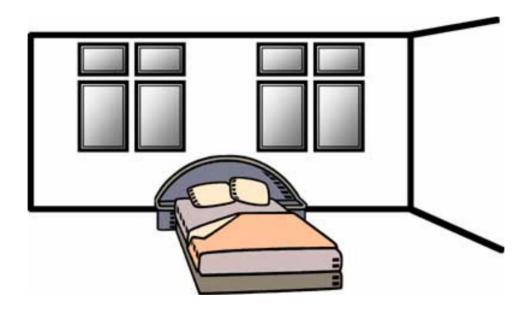
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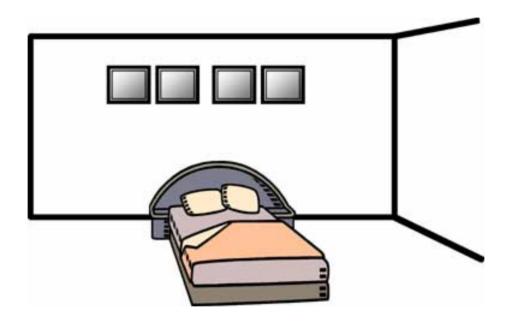
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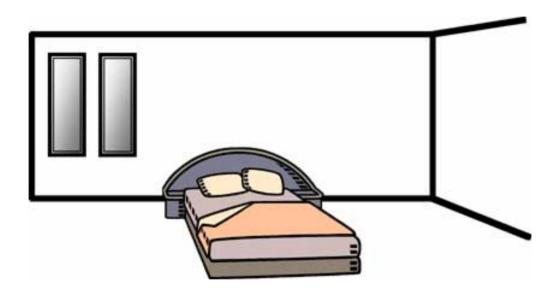


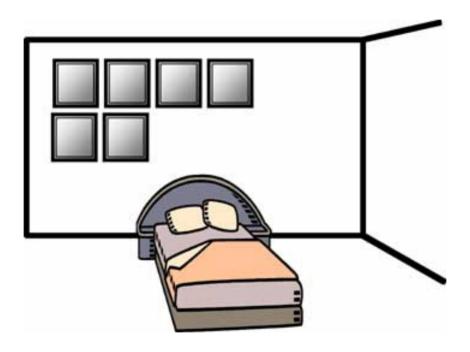


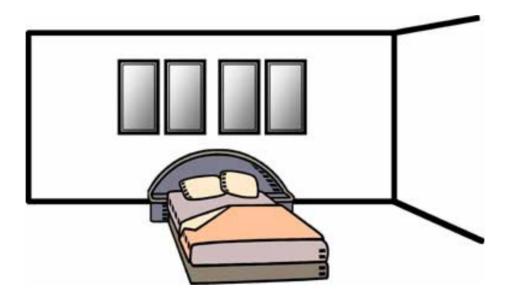
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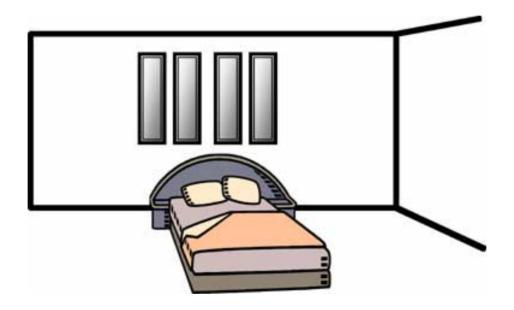


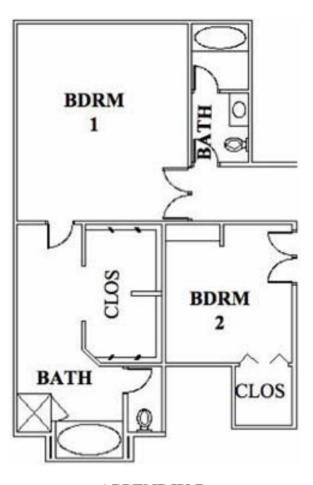






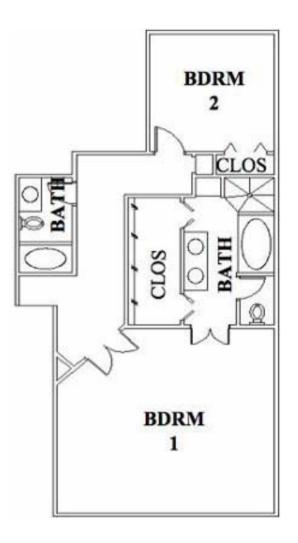


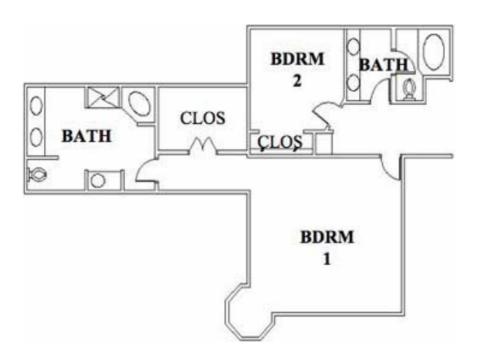


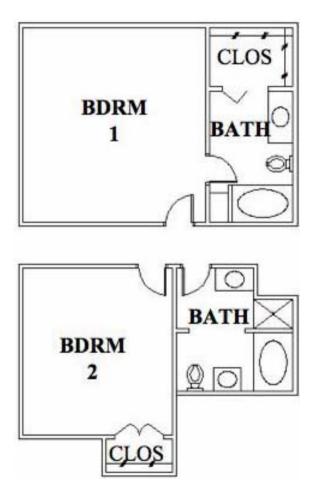


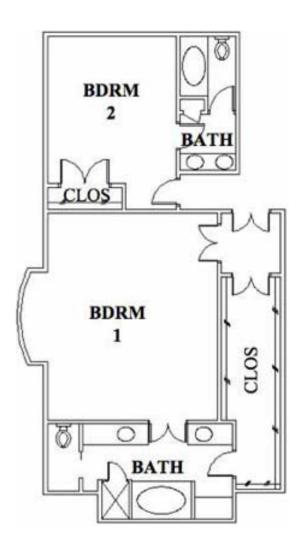
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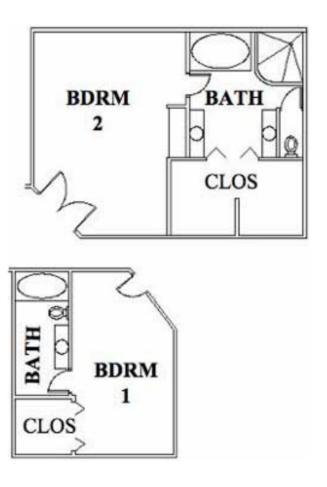
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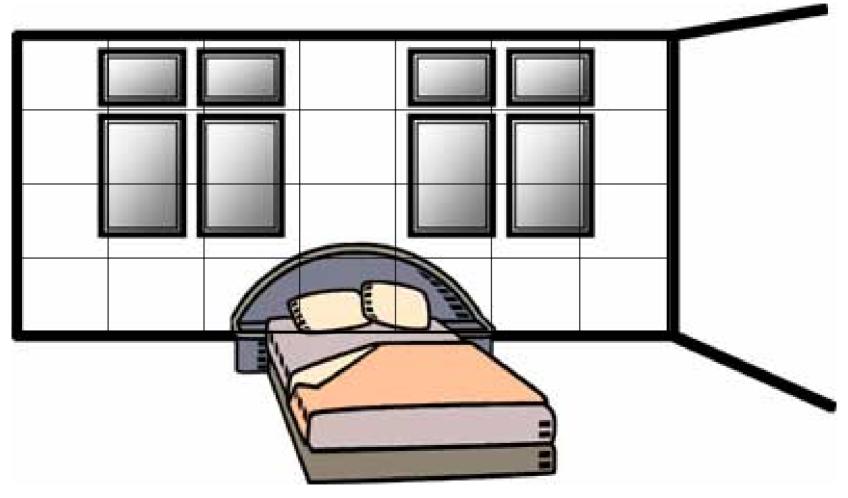




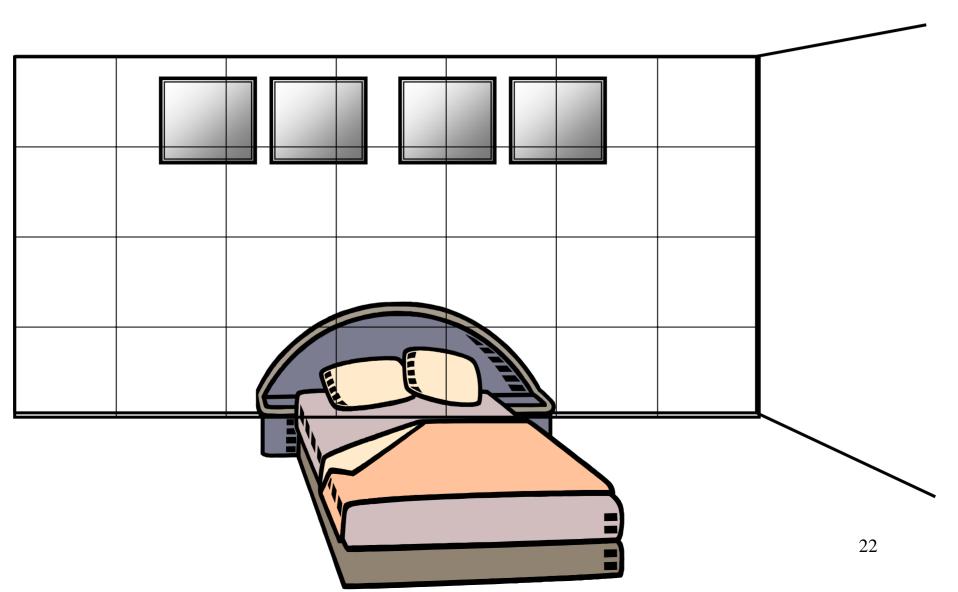


INTERIOR ELEVATION COMPLEXITY TECHNIQUE

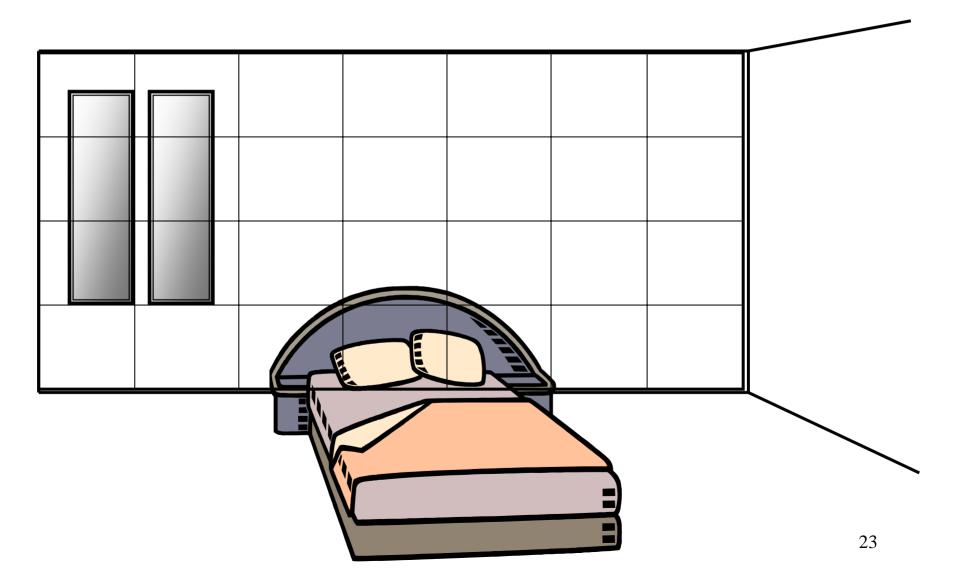
I1- 18 BOXES



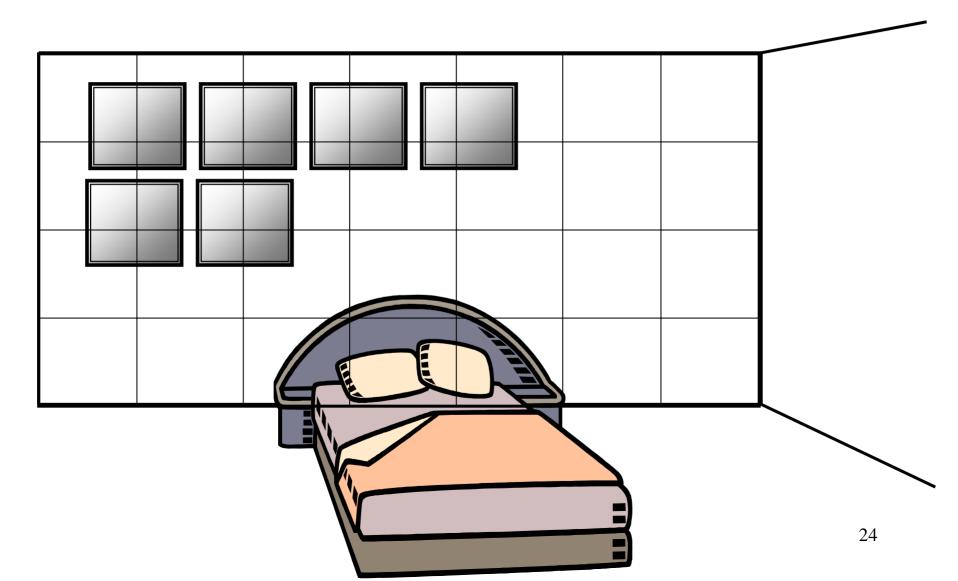
I2 – 10 **BOXES**



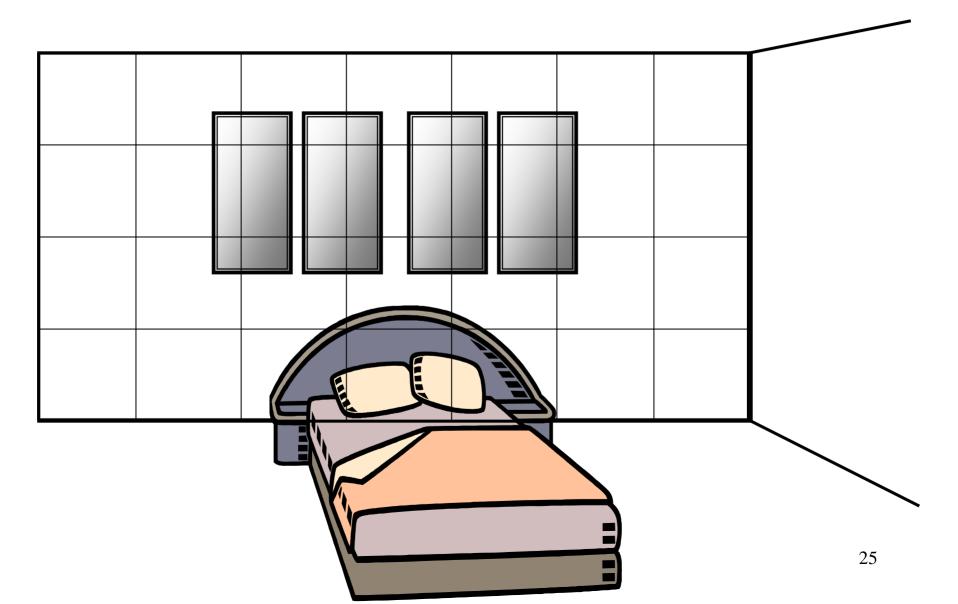
I3 - 6 BOXES



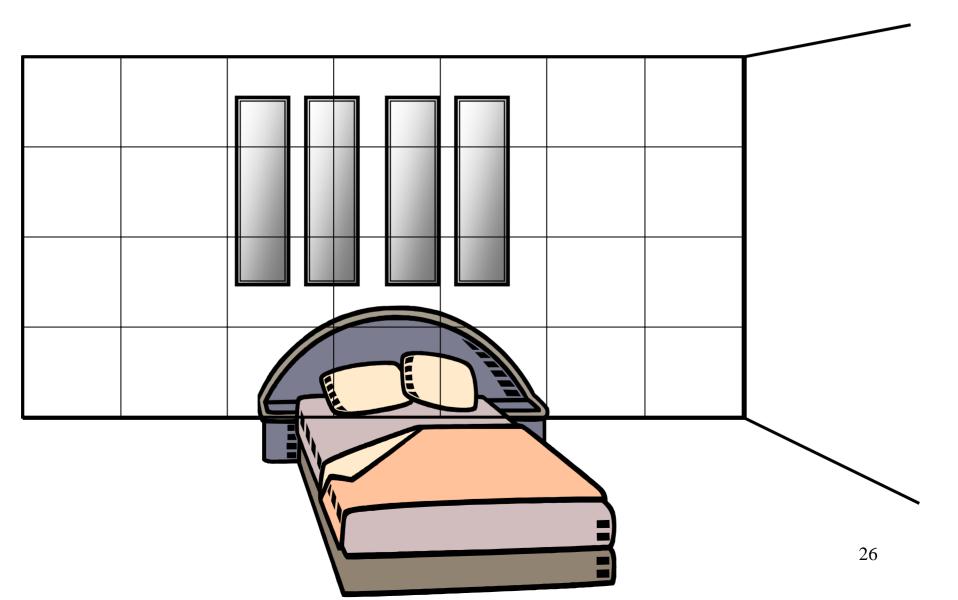
I4 – 13 BOXES



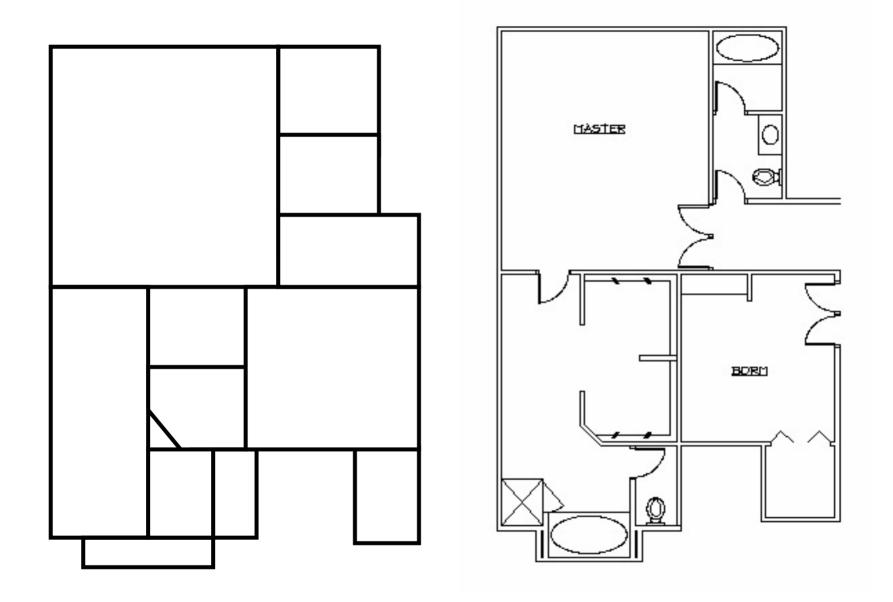
I5 – **15 BOXES**



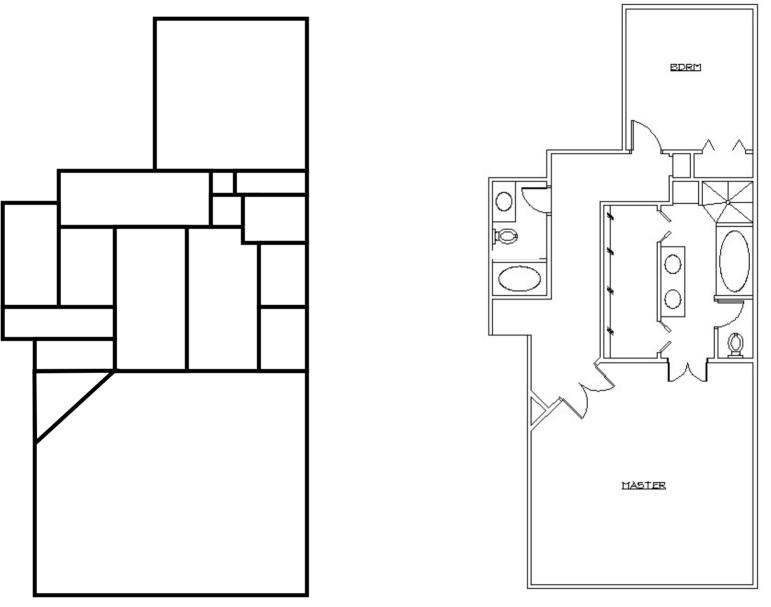
I6 – 9 BOXES



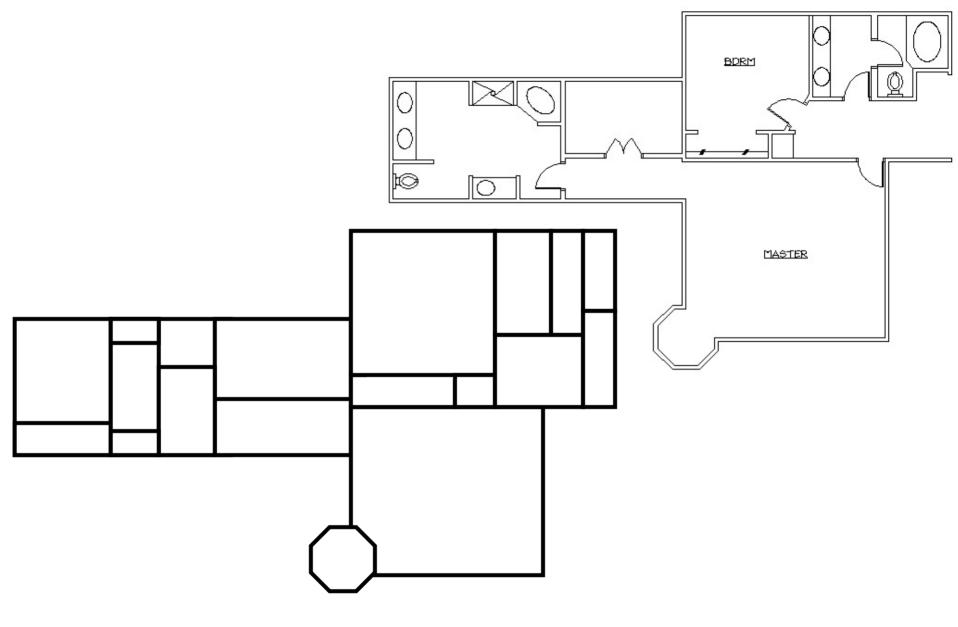
FLOOR PLAN COMPLEXITY TECHNIQUE



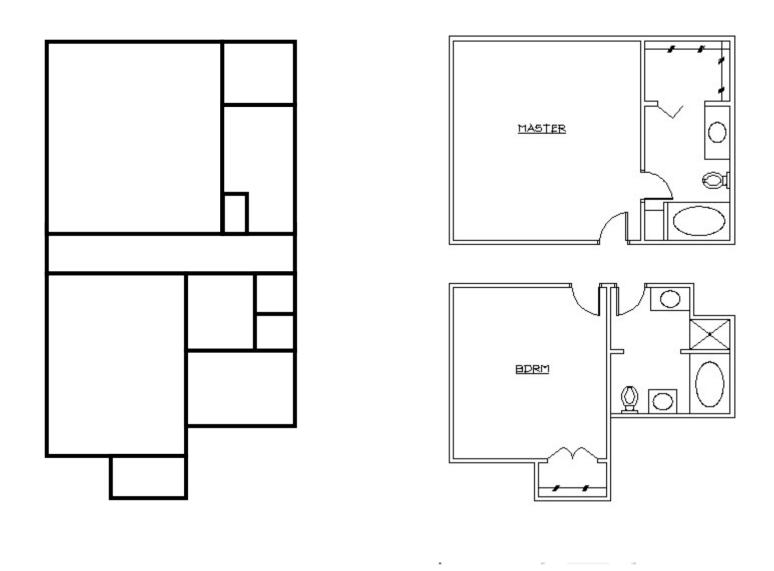
Floor Plan 1 – 12 Convex Spaces APPENDIX B



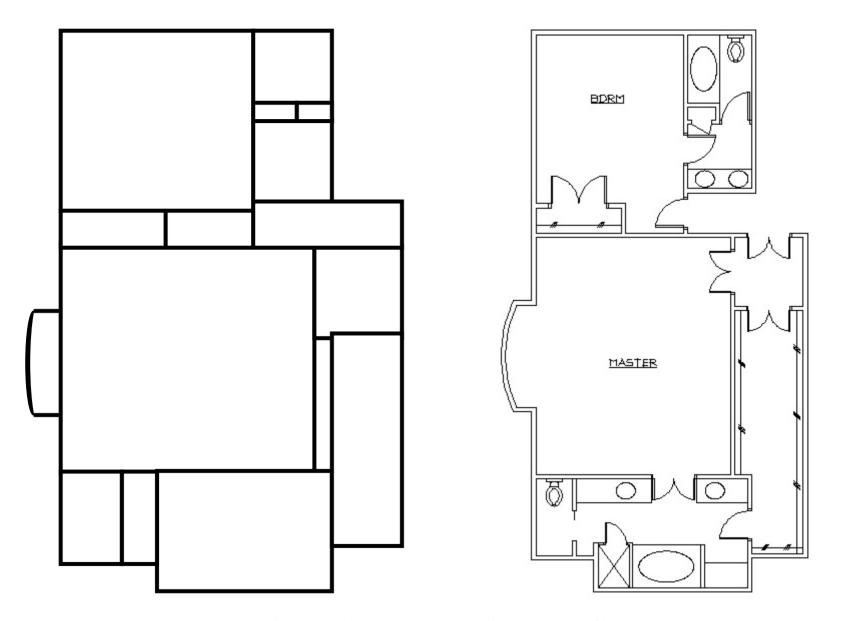
Floor Plan 2 – 16 Convex Spaces



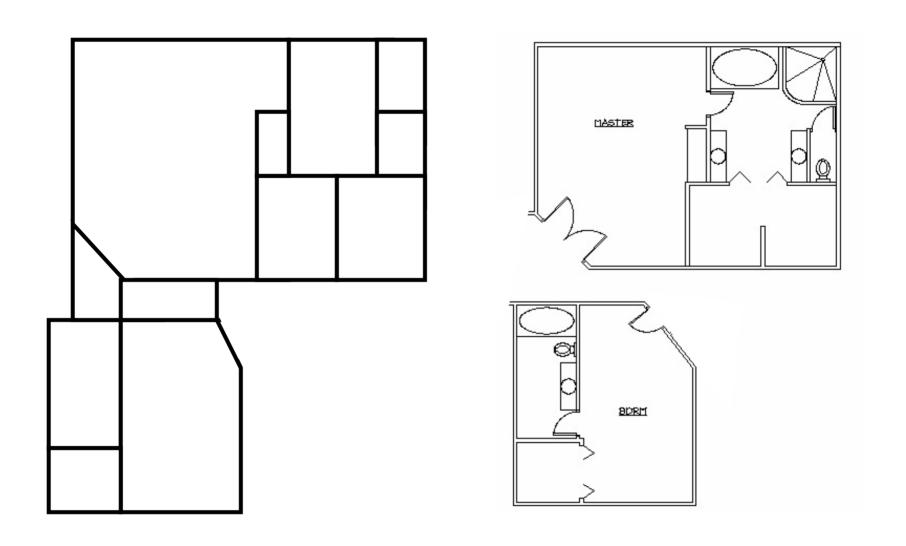
Floor Plan 3 – 19 Convex Spaces APPENDIX B



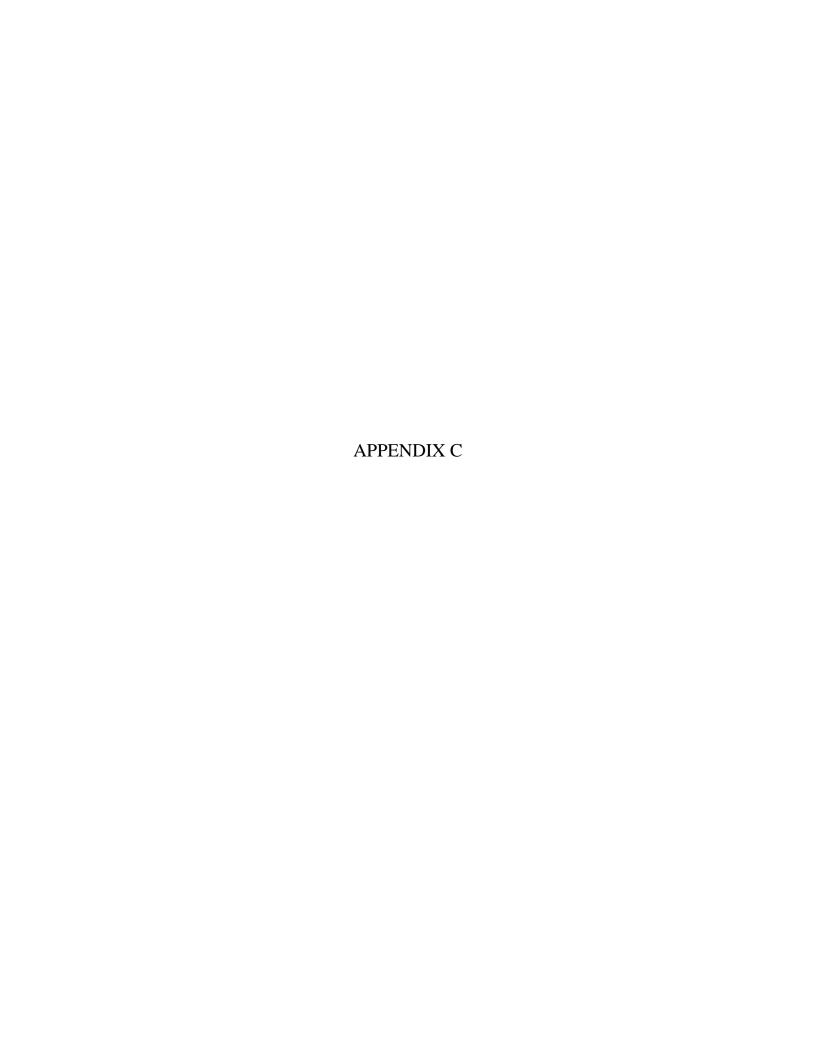
Floor Plan 4 – 11 Convex Spaces APPENDIX B



Floor Plan 5 – 16 Convex Spaces APPENDIX B



Floor Plan 6 – 12 Convex Spaces APPENDIX B



| | | | | | demo | ographics | . | | | | Meyer | | | |
|----|-------|-----------|---------------|-------------------------|------|-----------|----------|-----|-------------|-----------------------------|---------------------------|---|------------------------|--|
| # | ori # | user ID | Design pro | Constru ction pro | Male | College | Shy | Age | Live USA | Extraver sion/Intr aversion | Sensing /Intuiti on | _ | Judging/ Perceiving | |
| 1 | 1 | 857303761 | n | n | n | n | n | o35 | life | I | S | F | J | |
| 2 | 2 | 858222851 | n | У | У | у | У | o25 | norete | E | S | Т | Р | |
| 3 | 3 | 858774019 | n | n | У | у | У | o50 | life | I | S | Т | J | |
| 4 | 4 | 858550527 | n | У | n | У | n | o50 | life | E | S | Т | Р | |
| 5 | 5 | 857223923 | n | n | n | n | n | o50 | life | I | S | Т | J | |
| 6 | 6 | 860149306 | n | n | n | У | n | o25 | life | E | S | F | J | |
| 7 | 7 | 862420537 | n | n | n | у | n | o35 | life | I | S | F | J | |
| 8 | 8 | 865169525 | n | У | У | у | n | u25 | life | E | S | Т | J | |
| 9 | 9 | 868210579 | У | n | У | У | n | o35 | life | E | N | F | Р | |
| 10 | 10 | 880630995 | n | n | n | у | У | o25 | life | I | N | Т | J | |
| 11 | 11 | 882344174 | n | n | n | у | n | o25 | life | E | S | F | Р | |
| 12 | 12 | 882375421 | n | n | n | у | n | o25 | life | E | S | Т | J | |
| 13 | 13 | 882387380 | n | n | n | n | n | o25 | life | I | N | F | Р | |
| 14 | 14 | 884626212 | n | n | У | n | У | o25 | life | I | S | F | Р | |
| 15 | 15 | 917159648 | n | n | n | n | n | o50 | life | E | N | Т | J | |
| 16 | 16 | 918133735 | n | n | n | У | n | o35 | life | E | S | Т | Р | |
| 17 | 17 | 918271015 | n | n | n | n | n | o35 | life | E | N | F | Р | |
| 18 | 18 | 919246163 | n | n | n | У | n | o50 | life | E | S | F | J | |
| 19 | 19 | 919621429 | У | n | У | У | У | o35 | life | I | S | Т | J | |
| 20 | 20 | 919410317 | n | n | n | У | У | o50 | norete | I | S | F | J | |
| 21 | 21 | 922129420 | n | n | n | У | n | o25 | life | I | S | Т | Р | |
| 22 | 22 | 921520001 | n | n | n | У | У | o35 | life | E | N | F | Р | |
| 23 | 23 | 921887647 | n | n | У | У | n | o50 | life | I | S | F | J | |
| 24 | 24 | 922739888 | У | n | У | У | n | o35 | life | E | S | Т | J | |
| 25 | 25 | 923080611 | n | n | n | n | n | o35 | life | E | Ν | F | Р | |
| 26 | 26 | 923871008 | n | n | n | У | n | o25 | life | I | S | T | J | |
| 27 | 27 | 925529154 | n | n | У | У | n | o35 | life | E | S | T | J | |
| 28 | 28 | 925509881 | n | n | n | У | n | o35 | life | I | S | F | J | |
| 29 | 29 | 925817062 | n | n | n | n | n | o50 | life | E | S | F | J | |
| 30 | 30 | 926157276 | n | У | У | У | У | o25 | life | I | Ν | T | Р | |
| 31 | 31 | 925849942 | n | n | n | У | n | o35 | life | E | S | F | Р | |
| 32 | 32 | 926874842 | n | n | n | У | n | o50 | norete | E | Ν | T | Р | |
| 33 | 33 | 927055328 | n | n | У | n | n | o25 | life | E | S | T | J | |
| 34 | 34 | 928436070 | n | n | n | у | n | o50 | life | 1 | | | J | |
| 35 | 35 | 928792308 | n | n | n | у | У | o25 | life | 1 | S | T | J | |
| 36 | 36 | 931131965 | n | n | У | у | n | o35 | life | E | N | | J | |
| 37 | 37 | 931930540 | n | n | n | n | n | u25 | five | Ī | N | | • | |
| 38 | 38 | 933084660 | n | n | n | у | n | o35 | life | E | | | | |
| 39 | 39 | 933394676 | n | n | n | n | У | o35 | life | ı | | | | |
| 40 | 40 | 934354815 | У | n | У | n | n | o35 | life | ı | | | Р | |
| 41 | 41 | 934768386 | n | n | n | у | У | o25 | norete | Ī | | | J | |
| 42 | 42 | 936803072 | n | n | У | у | n | o35 | life | E | S | | · | |
| 43 | 43 | 937301749 | У | n | У | n | У | o50 | life | Ī | N | | Р | |
| 44 | 44 | 940600989 | n | n | n | n | n | o35 | life | E | | | J | |
| 45 | 45 | 940760126 | n | n | n | у | n | o25 | life | Ī | | T | J | |
| 46 | 46 | 940736510 | n | У | У | у | n | o35 | life | Е | | | Р | |
| 47 | 47 | 941968857 | n | У | У | у | n | o50 | life | Ī | | | | |
| 48 | 48 | 945271073 | n | n | У | у | n | o50 | life | 1 | S | Т | Р | |
| 49 | 49 | 945712993 | n | n | n | у | У | o35 | life | 1 | N | F | J | |
| 50 | 50 | 948096046 | n | n | У | n | n | o35 | life | ı | N | F | Р | |
| 51 | 51 | 949189471 | n | n | У | у | n | o50 | life | ı | S | Т | J | |
| 52 | 52 | 950535764 | n | n | n | n | n | u25 | life | Е | S | F | Р | |
| 53 | 53 | 951344177 | n | n | n | У | У | o35 | life | I | S | F | Р | |

| | | | | | | | | _ | | Su | rvey | | | = | | | | | |
|----------|----------|--------|--------|--------|--------|--------|--------|----|--------|----|------|----|--------|--------|--------|--------|--------|--------|---------------|
| | | | | | | | | | | | | | | | | | | | |
| # | ori # | F1 | F2 | F3 | F4 | F5 | F6 | 11 | 12 | 13 | 14 | 15 | 16 | P1 | P2 | Р3 | P4 | P5 | P6 |
| 1 | 1 | 4 | 5 | 4 | 3 | 4 | 5 | 1 | 1 | 1 | 3 | 3 | 3 | 4 | 1 | 2 | 4 | 1 | 2 |
| 2 | 2 | 2 | 5 | 4 | 1 | 1 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 1 | 4 | 4 | 4 | 2 |
| 3 | 3 | 2 | 4 | 1 | 5 | 1 | 1 | 3 | 3 | 4 | 1 | 3 | 1 | 4 | 1 | 4 | 4 | 5 | 4 |
| 4 | 4 | 5 | 5 | 2 | 1 | 5 | 5 | 4 | 1 | 1 | 1 | 1 | 1 | 4 | 2 | 1 | 2 | 4 | 1 |
| 5 | 5 | 1 | 1 | 4 | 1 | 4 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 4 | 1 | 1 | 5 |
| 6 | 6 | 4 | 4 | 2 | 1 | 2 | 5 | 3 | 1 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 3 | 1 | 5 |
| 7 | 7 8 | 5 5 | 4 | 2 1 | 2 | 1 | 5 2 | 2 | 1 | 1 | 3 | 2 | 2 | 3 | 2 | 5 4 | 3 5 | 2 | <u>4</u> 5 |
| 9 | 9 | 2 | 5 3 | 1 | 3 | 2 1 | 2 | 4 | 2 | 2 | 2 | 2 | 2 1 | 1 | 2 | 2 | 4 | 4 | 4 |
| 10 | 10 | 5 | 5 | 2 | 4 | 5 | 4 | 5 | 1 | 1 | 5 | 4 | 3 | 4 | 1 | 5 | 4 | 5 | 5 |
| 11 | 11 | 1 | 5 | 1 | 2 | 4 | 3 | 3 | 1 | 1 | 1 | 3 | 1 | 2 | 4 | 2 | 4 | 1 | 4 |
| 12 | 12 | 5 | 5 | 1 | 1 | 2 | 2 | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 1 | 1 | 2 | 2 | 3 |
| 13 | 13 | 5 | 5 | 2 | 2 | 5 | 5 | 4 | 3 | 1 | 1 | 4 | 2 | 2 | 2 | 2 | 2 | 4 | 4 |
| 14 | 14 | 2 | 2 | 1 | 3 | 2 | 3 | 5 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 4 | 3 | 4 | 2 |
| 15 | 15 | 2 | 4 | 2 | 4 | 1 | 1 | 4 | 1 | 1 | 3 | 4 | 4 | 2 | 5 | 5 | 2 | 4 | 4 |
| 16 | 16 | 2 | 5 | 2 | 3 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 4 | 2 | 2 | 4 |
| 17 | 17 | 2 | 3 | 5 | 1 | 3 | 4 | 4 | 3 | 1 | 1 | 3 | 3 | 1 | 4 | 1 | 2 | 5 | 4 |
| 18 | 18 | 2 | 4 | 3 | 1 | 4 | 3 | 1 | 1 | 4 | 3 | 1 | 1 | 2 | 1 | 4 | 1 | 4 | 2 |
| 19 | 19 | 1 | 5 | 3 | 2 | 3 | 5 | 4 | 2 | 2 | 2 | 1 | 3 | 4 | 4 | 4 | 4 | 5 | 4 |
| 20 | 20 | 2 | 4 | 4 | 2 | 2 | 4 | 4 | 1 | 3 | 2 | 1 | 1 | 4 | 4 | 2 | 2 | 2 | 4 |
| 21 | 21 | 4 | 4 | 3 | 1 | 1 | 4 | 1 | 2 | 2 | 1 | 2 | 3 | 3 | 4 | 1 | 1 | 4 | 2 |
| 22 | 22 | 5 | 4 | 2 | 1 | 4 | 2 | 1 | 2 | 4 | 4 | 2 | 2 | 3 | 1 | 4 | 4 | 3 | 2 |
| 23 | 23 | 4 | 4 | 1 | 1 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 3 | 1 | 3 | 4 |
| 24 25 | 24 25 | 2 | 1 5 | 4 | 2 | 2 | 1 4 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 3 |
| 26 | 26 | 1 | 5 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 4 |
| 27 | 27 | 2 | 2 | 1 | 2 | 1 | 1 | 3 | 4 | 1 | 1 | 3 | 3 | 1 | 2 | 2 | 1 | 1 | 2 |
| 28 | 28 | 2 | 3 | 4 | 1 | 5 | 5 | 3 | 1 | 1 | 1 | 3 | 3 | 3 | 2 | 4 | 3 | 2 | 3 |
| 29 | 29 | 3 | 5 | 1 | 1 | 2 | 5 | 1 | 1 | 3 | 3 | 1 | 1 | 1 | 4 | 3 | 3 | 4 | 4 |
| 30 | 30 | 5 | 5 | 4 | 5 | 4 | 4 | 2 | 3 | 1 | 5 | 4 | 4 | 4 | 5 | 4 | 3 | 4 | 2 |
| 31 | 31 | 3 | 3 | 2 | 1 | 2 | 5 | 2 | 4 | 4 | 2 | 4 | 2 | 4 | 3 | 1 | 1 | 2 | 4 |
| 32 | 32 | 2 | 2 | 1 | 2 | 1 | 1 | 4 | 5 | 1 | 1 | 2 | 4 | 2 | 2 | 2 | 3 | 3 | 1 |
| 33 | 33 | 4 | 4 | 4 | 4 | 4 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 4 | 3 | 2 | 5 |
| 34 | 34 | 2 | 2 | 2 | 1 | 3 | 2 | 3 | 1 | 2 | 1 | 1 | 1 | 4 | 4 | 2 | 4 | 5 | 4 |
| 35 | 35 | 4 | 5 | 2 | 1 | 4 | 2 | 1 | 1 | 4 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 4 |
| 36 | 36 | 5 | 4 | 5 | 4 | 5 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 1 | 2 | 1 | 4 | 1 |
| 37 | 37 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 3 | 4 | 1 | 1 | 4 | 2 | 1 | 4 |
| 38 | 38 | 4 | 2 | 4 | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 3 | 3 | 1 | 1 | 2 | 2 | 1 | 3 |
| 39 | 39 | 4 | 5 | 4 | 1 | 2 | 2 | 4 | 3 | 1 | 4 | 2 | 3 | 2 | 1 | 3 | 2 | 5 | 2 |
| 40 | 40 41 | 4 | 4 | 4 | 4 | 4 | 2 | 1 | 1 5 | 1 | 1 | 1 | 1 | 2 | 4 | 5 5 | 4 | 5 4 | 2 |
| 41 | 41 | 4 | 2 5 | 2 | 4 5 | 2 | 2 | 2 | 2 | 1 | 4 | 2 | 1 3 | 4 1 | 2 1 | 3 | 2 | 3 | 2 |
| 42 | 42 | 1 | 3 | 3 | 2 | 1 | 2 | 1 | 3 | 3 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 3 | 1 |
| 44 | 44 | 3 | 5 | 4 | 3 | 2 | 2 | 2 | 3 | 2 | 1 | 4 | 5 | 1 | 4 | 4 | 2 | 4 | 2 |
| 45 | 45 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 3 | 2 | 3 | 2 | 2 | 1 | 1 | 1 | 4 |
| 46 | 46 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 1 | 1 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 |
| 47 | 47 | 3 | 5 | 3 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 2 | 1 | 5 |
| 48 | 48 | 4 | 5 | 2 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 1 | 2 | 4 | 4 | 4 | 2 | 4 | 2 |
| 49 | 49 | 4 | 4 | 1 | 3 | 2 | 5 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 4 | 4 | 1 |
| 50 | 50 | 5 | 5 | 4 | 1 | 5 | 4 | 1 | 3 | 1 | 1 | 3 | 3 | 4 | 1 | 1 | 4 | 4 | 2 |
| 51 | 51 | 2 | 3 | 5 | 2 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 2 |
| 52 | 52 | 1 | 5 | 3 | 3 | 3 | 4 | 2 | 4 | 1 | 1 | 4 | 5 | 4 | 5 | 4 | 4 | 2 | 5 |
| 53 | 53 | 2 | 5 | 2 | 1 | 2 | 4 | 4 | 3 | 1 | 3 | 4 | 4 | 2 | 3 | 3 | 3 | 4 | 3 |
| | | | | | | | | | | | | | | | | | | | |

| Section Sect | | | | | | demo | ographics | S | | | | Meyer | s-Briggs | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|-----------|---|-------|------|-----------|----------|-----|--------|-----------|----------|----------|------------------------|
| S5 S5 S58456673 n n n y n oS0 orete E N F J | # | ori # | user ID | | ction | Male | College | Shy | Age | | sion/Intr | /Intuiti | _ | Judging/ Perceiving |
| 56 56 960394854 n n n y y 0.35 life l N T J | 54 | 54 | 955990786 | n | n | У | У | n | o50 | life | E | N | F | J |
| 57 57 960863806 n y y n y 025 life l N T J | 55 | 55 | 958456673 | n | n | n | у | n | o50 | norete | E | N | F | J |
| S8 | 56 | 56 | 960394854 | n | n | n | У | У | o35 | life | I | S | Т | J |
| 59 969255615 n n y n y 225 life l N F J | 57 | 57 | 960863806 | n | У | У | n | У | o25 | life | I | N | Т | J |
| 60 60 238182 n n n n y n 0.25 horete E N T P P 61 61 61 4716761 n n n y y y 0.35 horete E N T P P 62 63 62 1544191 n n n y y y 0.35 horete I S T J J 6.2 6.2 1544191 n n n y y y 0.35 horete I S T J J 6.3 63 17271447 n n n n y y y 0.35 life I N F P P 6 64 64 19353011 y y y y y n 0.35 life I N F P P 6 65 65 20534008 n n n n n n n n n n n n n n n n n n | 58 | 58 | 962030194 | n | n | n | У | n | o50 | life | I | S | F | Р |
| 61 | 59 | 59 | 969255615 | n | n | У | n | У | u25 | life | I | Ν | F | J |
| 62 62 1541491 n n y y n 0.35 life I N F P 63 36.3 17271447 n n n n n n N F P P 64 64 140 19352011 y y y y n 0.35 life E N F J 66 66 20537192 n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n | 60 | 60 | 238182 | n | n | n | у | n | o25 | norete | E | N | Т | Р |
| 63 63 17271447 n n n n y y y o50 life I N F P P 64 64 64 19353011 y y y y y n o35 life E N F J J 65 65 20534008 n n n n n n n o50 life E S F J J 66 66 62 2057192 n y n n n n n o50 life E S S F J F S F S F S F S F S F S F S F S | 61 | 61 | 4716761 | n | n | У | у | У | o35 | norete | I | S | Т | J |
| 65 65 20534088 n n n n n 0 035 life E N F J 66 66 22057192 n y n y n 0 050 life E N T P 67 67 67 24537482 n n n n n n 0 050 life I N T P 68 68 24451200 n n n n n n 0 050 life I N F P 69 69 26740145 n n n n n n 0 050 life I N F P 70 70 28832936 n n n n n y y 0 050 life I N F P 71 71 71 30549196 n n n y y y n 050 life I S T J 71 71 71 30549196 n n n n n y 0 050 life E S T J 73 73 35789095 n n n n n y 0 025 life E S F J 74 40762316 n n n n n y 0 025 life E S F J 75 75 43091909 n n n n n y 0 025 life E S F J 76 76 43936412 n n n n n y y 0 035 life I S F J 77 77 46084078 n n n n y y 0 035 life I S F J 78 88 48346532 n n n n n y y 0 035 life I S F P 80 80 91179036 n n n n y y n 0 035 life I S F P 81 88 48346532 n n n n n y y 0 035 life I S F P 81 89 89 1179036 n n n y y n 0 050 life E S S T J 81 81 104030463 n n n n y y n 0 050 life I S F P 81 81 81 104030463 n n n n n y y n 0 050 life I S F P 81 81 81 104030463 n n n n n y y n 0 050 life I S F P 82 82 106026154 n n n n y y n 0 050 life I S F P 83 83 108365562 n n y y n 0 050 life I S F P 84 84 108859425 n n n n n y y n 0 050 life I S F P 85 85 85 109495227 y n y y y n 050 life I S F P 86 86 81 11367577 n n y y n 050 life I S F P 87 87 88 11337577 n n y y n 050 life I S F P 88 11337577 n n y y n 050 life I S F P 89 90 11269833 n n n n y y n 050 life I S F P 90 0 0 112698731 n n y y n 050 life I S F P 91 11368743 n n n y y n 050 life I S F P 91 11368743 n n n n n n n n 0 050 life I N F P 91 113698745 n n n y y n 050 life I N F P 92 11307656 n n n y y n 050 life I N F P 93 113175717 n n n y y y n 050 life I S F J 94 113688344 n n n y y n 050 life I S F J 95 113657055 n n n n n n n n n n n n n n n n n n | 62 | 62 | 15441491 | n | n | У | У | n | o35 | life | I | Ν | F | Р |
| 65 65 20534008 n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n | 63 | 63 | 17271447 | n | n | n | У | У | o50 | life | I | Ν | F | Р |
| 66 66 2057192 n y n y n o50 life I N T P 68 68 24451200 n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n | 64 | 64 | 19353011 | У | У | У | У | n | o35 | life | E | Ν | F | J |
| 68 68 24451200 n n n n n n o50 life I N F P 69 69 26740145 n n n n n n n o50 life I N F P 70 70 28832936 n n n n y y o50 life I S F J 71 71 30549196 n n n n y y n o50 life I S T J 72 72 31220098 n n n n n y y n o50 life I S F J 73 35389095 n n n n n y n n o50 life I S F J 74 74 40762316 n n n n n y n o25 life I S F J 75 75 43091909 n n n n n n y n o25 life E S S F J 76 76 43936412 n n n y y y o35 life I S F J 77 77 77 46084078 n n n n y y y o35 life I S F J 78 78 48346532 n n n n n n n o25 life E S T J 79 79 88103140 n n n n n n n o25 life E S T J 80 80 91179036 n n n n n y 0 035 life I S F P 81 81 81 104030463 n n n n n y n o25 life E S T J 82 82 106026154 n n n n y y n o50 life E S T J 83 83 10836552 n n n n y y n o50 life E S T J 84 84 4 108859425 n n n n y y n o50 life E S T J 85 85 109495227 y n y n n n o50 life E S T J 87 88 88 112402057 n n y y y 0 35 lorete E S F J 88 88 112402057 n n y y y 0 35 life I S F P 89 89 90 1129687833 n n n y y y 0 35 life I S F P 90 90 1129687833 n n n y y n o50 life I S F P 91 91 112695431 n n y y y 0 35 life E N F P 91 91 112695431 n n y y y 0 35 life E N F P 91 91 112695431 n n y y y 0 35 life E N F P 92 93 113076556 n n n y n n o50 life I S F P 93 113175717 n n y y y n o50 life I S F P 94 95 113551055 n n n n y n o35 life I S F P 95 97 97 112687833 n n n n n y n o50 life I S F P 96 99 112988783 n n n n n y y y n o50 life I S F P 97 99 112687833 n n n n y y y n o50 life I S F P 98 99 108025776 n n y y n o50 life I S F P 99 99 112988783 n n n n y y y n o50 life I S F P 90 99 112988783 n n n n y y y n o50 life I S F P 97 97 97 11881548 n n n y y y n o50 life I S F P 98 99 108025776 n n n y n n o50 life E N F P 99 99 11298573 n n n n n y n o50 life E N F P 90 99 11298573 n n n n n y n o50 life I S T J 90 99 11298573 n n n n n y n o50 life E N F P 91 1100 1101 123187344 n n n n y n o50 life E N F P 91 1100 1101 123187344 n n n n n y n o50 life E N F J 100 1101 123187344 n n n n n n n n n n o50 life E N F J 100 1101 123187344 n n n n n n n n n n n n n n n n n n | 65 | 65 | 20534008 | n | n | n | n | n | o50 | life | E | S | F | J |
| 68 68 24451200 n n n n n n o50 life I N F P P 69 69 26740145 n n n n y y o50 life I S F J 70 70 2832936 n n n n n y y n o50 life I S F J 71 71 30549196 n n n n y y n o50 life I S T J J 71 71 30549196 n n n n y y n o50 life E S T J J 72 72 31220098 n n n n n y y n o50 life E S T J J 73 73 35789095 n n n n n y o25 life E S F J 74 74 40762316 n n n n n n y o25 life E S F J 75 75 43091909 n n n n n n n o25 life E S F J 75 75 75 43091909 n n n n n n n o25 life E S F J 77 77 46084078 n n n n n n n o35 life I S F P J 77 77 46084078 n n n n n n n o35 life I S F P J 77 77 46084078 n n n n n n n o35 life I S F P J 78 78 48346532 n n n n n n n o35 life I S F P J 78 78 48346532 n n n n n n y y o35 life E N F P P 80 80 80 91179036 n n n n n y y n o35 life E N F J J 81 81 104030463 n n n n n y y n o35 life E S F J J 81 104030463 n n n n n y y n o35 life E N F P P R 81 81 81 104030463 n n n n y y n o50 life E S F J R 88 88 1104020453 n n n n y y y o35 life E N F P P R 81 81 81 104030463 n n n n y y n o50 life E S F J R 88 88 1104020063 n n n y y n o50 life E S F J R 88 88 1104020065 n n n y y n o50 life E S F J R 88 88 1104020065 n n n y y n o50 life E N F P P R 81 81 81 104030463 n n n n y y n o50 life E S F J R 88 88 1104020067 n n n y y n o50 life I N F P P R 81 81 81 104030463 n n n n y y n o50 life E S F J J R 88 88 1112402057 n n n y y n o50 life I N T P P R 81 81 81 113965717 n n n y y y n o50 life I N T P P R 81 88 88 1112402057 n n n y y y n o50 life I N T P P R 81 88 88 1112402057 n n n y y y n o50 life I S T J J R 89 89 108025776 n n n y y y n o50 life I S T J J R 81 81 112403046 n n n n y y n o50 life I S T J J R 81 81 112403057 n n n n y y n o50 life I S T J J R 90 90 112966783 n n n n n y y n o50 life I S T J J R 90 90 112966783 n n n n y y n o50 life I S T J J R 90 90 112966785 n n n n n y n o50 life I S T J J R 91 91 91 112696785 n n n n n y y n o50 life I S T J J P 90 90 112966785 n n n n n n n n n n o50 life I S T J J P 90 90 112966785 n n n n n n n n n n n n n n n n n n n | 66 | 66 | 23057192 | n | У | n | У | n | o50 | life | I | Ν | Т | Р |
| 69 69 26740145 n n n n n n y n o50 life I S F J 70 70 72 28832936 n n n n y n o50 life I S T J 71 71 71 30549196 n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n | 67 | 67 | 24537482 | n | n | n | n | n | o35 | ten | E | Ν | Т | Р |
| TO | 68 | 68 | 24451200 | n | n | n | n | n | o50 | life | I | Ν | F | Р |
| T1 | 69 | 69 | 26740145 | n | n | n | У | У | o50 | life | I | S | F | J |
| 72 72 31220098 n n n n n y o.25 life I S F J 73 73 35789095 n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n <td>70</td> <td>70</td> <td>28832936</td> <td>n</td> <td>n</td> <td>n</td> <td>У</td> <td>n</td> <td>o50</td> <td>life</td> <td>I</td> <td>S</td> <td>Т</td> <td>J</td> | 70 | 70 | 28832936 | n | n | n | У | n | o50 | life | I | S | Т | J |
| 73 73 85789095 n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n | 71 | 71 | 30549196 | n | n | У | у | n | o50 | life | E | S | Т | J |
| 74 74 40762316 n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n | 72 | 72 | 31220098 | n | n | n | n | У | o25 | life | I | S | F | J |
| 75 | 73 | 73 | 35789095 | n | n | n | У | n | o25 | life | E | S | F | J |
| 76 76 43936412 n n y y y o35 life I S T P 77 77 46084078 n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n <td>74</td> <td>74</td> <td>40762316</td> <td>n</td> <td>n</td> <td>n</td> <td>n</td> <td>n</td> <td>o25</td> <td>ten</td> <td>E</td> <td>Ν</td> <td>F</td> <td>Р</td> | 74 | 74 | 40762316 | n | n | n | n | n | o25 | ten | E | Ν | F | Р |
| 77 77 46084078 n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n | 75 | 75 | 43091909 | n | n | n | У | n | o35 | life | I | S | F | J |
| 78 78 48346532 n n n y y o35 life E N F J 79 79 88103140 n n n n n n n N F P 80 80 91179036 n n n n n n N F P 81 81 104030463 n n n n y n o35 horete E S F J 82 82 106026154 n n y y n o50 life E N F P 83 38 108365562 n n n y y n o50 life I N T P 84 84 108659425 n n n y y y o35 horete E S | 76 | 76 | 43936412 | n | n | У | У | У | o35 | life | I | S | Т | Р |
| 79 79 88103140 n n n n y 035 norete I N F P 80 80 91179036 n n y n n 025 life E S T J 81 81 104030463 n n n n n 035 norete E S T J 82 82 106026154 n n n y y n 050 life E N F P 83 108365562 n n y y n 050 life I N T P 84 84 108859425 n n y y n 050 life I N T P 85 85 109495277 y n y y 035 never I N < | 77 | 77 | 46084078 | n | n | n | n | n | o35 | life | I | S | F | Р |
| 80 80 91179036 n n y n n o25 life E S T J 81 81 104030463 n n n n y n o35 norete E S F J 82 82 106026154 n n n y y n o50 life E N F P 83 33 108365562 n n y y n o50 life I N T P 84 84 108859425 n n y n n o50 life I N T P 85 109495227 y n y y o35 norete E S T J 86 86 11066442 n n n y y o350 life I < | 78 | 78 | 48346532 | n | n | n | у | У | o35 | life | E | N | F | J |
| 81 81 104030463 n n n n o o o o s F J 82 82 106026154 n n n y y n o o o o o o o o p n n y y n o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o | 79 | 79 | 88103140 | n | n | n | n | У | o35 | norete | I | N | F | Р |
| 82 82 106026154 n n y y n o50 life E N F P 83 83 108365562 n n y y n o50 life I N T P 84 84 108859425 n n y n n o50 life I N T P 85 109495227 y n y y o35 norete E S T J 86 86 110666462 n n y y y o50 never I N T J 87 87 111375717 n n y y n o50 life I S F P 88 88 112402057 n n n y y n o50 life I N < | 80 | 80 | 91179036 | n | n | У | n | n | o25 | life | E | S | Т | J |
| 83 83 108365562 n n y y n o50 life I N T P 84 84 108859425 n n y n n o50 life I N T P 85 85 109495227 y n y y y o55 horete E S T J 86 86 110666462 n n n y y n o50 never I N T J 87 87 111375717 n n y y n o50 life I S F P 88 88 112402057 n n y y n o50 life I S T J 89 89 108025776 n n n n n n n n | 81 | 81 | 104030463 | n | n | n | у | n | o35 | norete | E | S | F | J |
| 84 84 108859425 n n y n n o50 life I N T P 85 85 109495227 y n y y y o35 norete E S T J 86 86 110666462 n n y y y o50 never I N T J 87 111375717 n n y y n o50 life I S F P 88 88 112402057 n n y y n o50 life I S T J 89 89 108025776 n n n y y n o50 life I N F P 90 90 112968431 n n n n n n n n T< | 82 | 82 | 106026154 | n | n | У | У | n | o50 | life | E | N | F | Р |
| 85 85 109495227 y n y y y o35 norete E S T J 86 86 110666462 n n y y y o50 never I N T J 87 87 111375717 n n y y n o50 life I S F P 88 88 112402057 n n n y y n o50 life I S T J 89 89 108025776 n n y y n o50 life I N F P 90 90 112968783 n n n n o50 life E N T J 91 91 112695431 n n n n n n n n o | 83 | 83 | 108365562 | n | n | У | У | n | o50 | life | I | N | Т | Р |
| 86 86 110666462 n n y y y y o50 never I N T J 87 87 111375717 n n y y n o50 life I S F P 88 88 112402057 n n y y n o50 life I S T J 89 89 108025776 n n n y y o35 life I N T J 90 90 112968783 n n y y n o50 life E N T J 91 91 12695431 n n n n n n n o50 life E N T J 9 92 1213076556 n n n n n n n <td>84</td> <td>84</td> <td>108859425</td> <td>n</td> <td>n</td> <td>У</td> <td>n</td> <td>n</td> <td>o50</td> <td>life</td> <td>I</td> <td>N</td> <td>T</td> <td>Р</td> | 84 | 84 | 108859425 | n | n | У | n | n | o50 | life | I | N | T | Р |
| 87 87 111375717 n n y y n o50 life I S F P 88 88 112402057 n n y y n o50 life I S T J 89 89 108025776 n n n y y o35 life I N F P 90 90 112968783 n n n y y n o50 life E N T J 91 91 112695431 n n n n n n o50 life E N T J J 92 92 113076556 n n n n n n n n n n n n n n n n n n n n n n | 85 | 85 | 109495227 | У | n | У | у | У | o35 | norete | E | S | T | J |
| 88 88 112402057 n n y y n o50 life I S T J 89 89 108025776 n n y y y y o35 life I N F P 90 90 112968783 n n y y n o50 life E N T J 91 91 112695431 n n y y n o35 life I S T J 92 92 113076556 n n n n n n n n o35 horete E S T J 93 93 114723443 n n n n n n o35 horete E S T J 94 94 115235343 n n n | 86 | 86 | 110666462 | n | n | У | У | У | o50 | never | I | N | Т | J |
| 89 89 108025776 n n y y y o35 life I N F P 90 90 112968783 n n y y n o50 life E N T J 91 91 112695431 n n n n n o35 life I S T J 92 92 113076556 n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n | 87 | 87 | 111375717 | n | n | У | У | n | o50 | life | I | S | F | Р |
| 90 90 112968783 n n y y n o50 life E N T J 91 91 112695431 n n n y y n o35 life I S T J 92 92 113076556 n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n | 88 | 88 | 112402057 | n | n | У | У | n | o50 | life | I | S | Т | J |
| 91 91 112695431 n n y y n o35 life I S T J 92 92 113076556 n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n </td <td>89</td> <td>89</td> <td>108025776</td> <td>n</td> <td>n</td> <td>у</td> <td>У</td> <td>У</td> <td>o35</td> <td>life</td> <td>I</td> <td>N</td> <td>F</td> <td>Р</td> | 89 | 89 | 108025776 | n | n | у | У | У | o35 | life | I | N | F | Р |
| 92 92 113076556 n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n <th< td=""><td>90</td><td>90</td><td>112968783</td><td>n</td><td>n</td><td>у</td><td>У</td><td>n</td><td>o50</td><td>life</td><td>E</td><td>N</td><td>Т</td><td>J</td></th<> | 90 | 90 | 112968783 | n | n | у | У | n | o50 | life | E | N | Т | J |
| 93 93 114723443 n n n n y n o35 horete E S T J 94 94 115235343 n n y y n o50 life I S T J 95 95 115551055 n n n y y o35 life I S F J 96 96 117166816 n n n y y n o50 life E N T P 97 97 118881548 n n y y n o35 life E N T P 98 98 119360326 n n n y n o25 horete E N T J 99 99 122928575 n n n n n n | 91 | 91 | 112695431 | n | n | у | У | n | o35 | life | I | S | Т | J |
| 94 94 115235343 n n y y n o50 life I S T J 95 95 115551055 n n n y y o35 life I S F J 96 96 117166816 n n n y y n o50 life E N T P 97 97 118881548 n n y y n o35 life I S T J 98 98 119360326 n n n y n o25 horete E N T J 99 99 122928575 n n n n n n N T P 100 100 122776537 n n n n n n o35 life I | 92 | 92 | 113076556 | n | n | n | n | n | o35 | life | E | S | Т | J |
| 95 95 115551055 n n n y y o35 life I S F J 96 96 117166816 n n y y n o50 life E N T P 97 97 118881548 n n y y n o35 life I S T J 98 98 119360326 n n n n y n o25 norete E N T J 99 99 122928575 n n y n n I N T P 100 100 122776537 n n n n n y n o35 life I S T P 101 101 123187344 n n n n n o35 life <t< td=""><td>93</td><td>93</td><td>114723443</td><td>n</td><td>n</td><td>n</td><td>У</td><td>n</td><td>o35</td><td>norete</td><td>E</td><td>S</td><td>Т</td><td>J</td></t<> | 93 | 93 | 114723443 | n | n | n | У | n | o35 | norete | E | S | Т | J |
| 96 96 117166816 n n y y n o50 life E N T P 97 97 118881548 n n y y n o35 life I S T J 98 98 119360326 n n n n y n o25 norete E N T J 99 99 122928575 n n y n n I N T P 100 100 122776537 n n n n y n o35 life I S T P 101 101 123187344 n n n n y n o35 life E N F J 102 102 122951550 n n n n y n o35 <td< td=""><td>94</td><td>94</td><td>115235343</td><td>n</td><td>n</td><td>У</td><td>У</td><td>n</td><td>o50</td><td>life</td><td>I</td><td>S</td><td>Т</td><td>J</td></td<> | 94 | 94 | 115235343 | n | n | У | У | n | o50 | life | I | S | Т | J |
| 97 97 118881548 n n y y n o35 life l S T J 98 98 119360326 n n n n y n o25 norete E N T J 99 99 122928575 n n n n n I N T P 100 100 122776537 n n n y n o35 life I S T P 101 101 123187344 n n n n y n o35 life E N F J 102 102 122951550 n n n n y n o35 life E N F J 103 103 125305465 n n n y n o35 life | 95 | 95 | 115551055 | n | n | n | У | У | 035 | life | I | S | F | J |
| 98 98 119360326 n n n y n o25 horete E N T J 99 99 122928575 n n y n n I N T P 100 100 122776537 n n n n y n o35 life I S T P 101 101 123187344 n n n n y n o35 life E N F J 102 102 122951550 n n n n y n o25 life I S T P 103 103 125305465 n n n y n o35 life E S T J 104 104 126882459 n n y n o50 life I | 96 | 96 | 117166816 | n | n | У | У | n | o50 | life | E | N | Т | Р |
| 98 98 119360326 n n n y n o25 horete E N T J 99 99 122928575 n n y n n I N T P 100 100 122776537 n n n n y n o35 life I S T P 101 101 123187344 n n n n y n o35 life E N F J 102 102 122951550 n n n n y n o25 life I S T P 103 103 125305465 n n n y n o35 life E S T J 104 104 126882459 n n y n o50 life I | 97 | 97 | 118881548 | n | | У | ý | n | o35 | life | I | S | T | J |
| 99 99 122928575 n n y n n I N T P 100 100 122776537 n n n n y n o35 life I S T P 101 101 123187344 n n n n y n o35 life E N F J 102 102 122951550 n n n y n o25 life I S T P 103 103 125305465 n n n y n o35 life E S T J 104 104 126882459 n n y n o50 life I S T P 105 105 126817951 n n n n n n o50 life I | 98 | 98 | | | | n | ý | | | 1 | E | | T | |
| 100 100 122776537 n n n y n o35 life I S T P 101 101 123187344 n n n n y n o35 life E N F J 102 102 122951550 n n n y n o25 life I S T P 103 103 125305465 n n n y n o35 life E S T J 104 104 126882459 n n y n o50 life I S T P 105 105 126817951 n n y n n o50 life I S T J | 99 | 99 | | | | | | | | | 1 | N | T | Р |
| 101 101 123187344 n n n y n o35 life E N F J 102 102 122951550 n n n y n o25 life I S T P 103 103 125305465 n n n y n o35 life E S T J 104 104 126882459 n n y y n o50 life I S T P 105 105 126817951 n n y n n o50 life I S T J | | | | | | _ | | | 035 | life | I | | | |
| 102 102 122951550 n n n y n o25 life I S T P 103 103 125305465 n n n y n o35 life E S T J 104 104 126882459 n n y y n o50 life I S T P 105 105 126817951 n n y n n o50 life I S T J | | | | | | | | | | 1 | Е | | | |
| 103 103 125305465 n n n y n o35 life E S T J 104 104 126882459 n n y y n o50 life I S T P 105 105 126817951 n n y n n o50 life I S T J | | | | | | | | | | _ | | | | |
| 104 104 126882459 n n y y n o50 life I S T P 105 105 126817951 n n y n n o50 life I S T J | | | | | | | | | | | | | | |
| 105 105 126817951 n n y n n o50 life I S T J | | | | | | | | | | | | | | |
| | _ | | | | | | | | | 1 | | | | |
| | 106 | 106 | 127215208 | n | n | n | n | n | u25 | life | E | S | T | P |

| | | | | | | | | | | Su | rvey | | | | | | | | |
|----------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|---------------|--------|--------|--------|--------|---------------|
| | | _, | | | | | _, | | | | | | | | | | | | _, |
| # | ori # | F1 | F2 | F3 | F4 | F5 | F6 | I1 | 12 | 13 | 14 | 15 | 16 | P1 | P2 | P3 | P4 | P5 | P6 |
| 54 | 54 | 2 | 2 | 5 | 1 | 4 | 4 | 4 | 1 | 3 | 1 | 1 | 1 | 2 | 5 | 3 | 2 | 2 | 5 |
| 55 | 55 | 4 | 5 | 2 | 1 | 5 | 2 | 4 | 3 | 3 | 1 | 4 | 1 | 2 | 4 | 2 | 1 | 4 | 2 |
| 56 | 56 | 4 | 4 | 1 | 4 | 4 | 5 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 |
| 57 | 57 | 2 | 4 | 2 | 2 | 2 | 3 | 4 | 3 | 1 | 2 | 4 | 2 | 2 | 4 | 2 | 2 | 2 | 2 |
| 58 59 | 58 59 | 2 | 2 5 | 3 2 | 2 | 4 1 | 2 | 3 | 5 1 | 1 | 1 | 3 | 1 | 1 4 | 2 1 | 3 | 1 2 | 2 | 2 |
| 60 | 60 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 1 | 1 | 1 | 3 | 1 | 2 | 1 | 3 | 2 | 1 | 1 |
| 61 | 61 | 2 | 2 | 1 | 1 | 2 | 2 | 5 | 1 | 1 | 1 | 3 | 3 | 4 | 4 | 2 | 3 | 2 | 3 |
| 62 | 62 | 5 | 3 | 2 | 3 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 3 | 3 | 5 | 2 |
| 63 | 63 | 1 | 4 | 4 | 4 | 2 | 5 | 4 | 3 | 1 | 4 | 4 | 4 | 4 | 2 | 4 | 2 | 1 | 2 |
| 64 | 64 | 2 | 3 | 2 | 4 | 1 | 2 | 5 | 1 | 4 | 1 | 1 | 1 | 4 | 4 | 4 | 3 | 4 | 4 |
| 65 | 65 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 4 | 1 | 1 | 2 |
| 66 | 66 | 5 | 5 | 5 | 5 | 3 | 4 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 1 |
| 67 | 67 | 1 | 5 | 5 | 1 | 4 | 5 | 1 | 1 | 4 | 1 | 1 | 1 | 4 | 3 | 2 | 1 | 4 | 5 |
| 68 69 | 68 69 | 5 5 | 4 5 | 2 | 1 | 1 | 2 4 | 3 | 1 | 3 | 2 | 4 | 3 | <u>2</u> 1 | 5 5 | 2 1 | 1 | 3 | <u>1</u> 5 |
| 70 | 70 | 2 | 4 | 4 | 1 | 5 | 4 | 3 | 1 | 3 | 1 | 3 | 1 | 4 | 1 | 1 | 2 | 3 | 2 |
| 71 | 71 | 1 | 5 | 3 | 1 | 5 | 4 | 3 | 3 | 1 | 1 | 3 | 3 | 2 | 2 | 1 | 2 | 3 | 3 |
| 72 | 72 | 1 | 3 | 2 | 1 | 3 | 5 | 3 | 3 | 3 | 1 | 2 | 1 | 3 | 4 | 3 | 3 | 4 | 3 |
| 73 | 73 | 1 | 2 | 2 | 1 | 2 | 2 | 3 | 1 | 1 | 3 | 3 | 3 | 2 | 1 | 4 | 3 | 1 | 4 |
| 74 | 74 | 4 | 4 | 3 | 2 | 4 | 5 | 4 | 1 | 1 | 1 | 3 | 3 | 3 | 4 | 1 | 3 | 2 | 2 |
| 75 | 75 | 5 | 3 | 1 | 5 | 3 | 5 | 3 | 3 | 1 | 1 | 3 | 3 | 2 | 2 | 2 | 4 | 2 | 4 |
| 76 | 76 | 3 | 3 | 3 | 3 | 2 | 5 | 4 | 4 | 1 | 1 | 4 | 4 | 2 | 1 | 4 | 2 | 5 | 2 |
| 77 | 77 | 4 | 4 | 4 | 1 | 5 | 5 | 1 | 1 | 1 | 1 | 3 | 3 | 1 | 3 | 1 | 1 | 1 | 1 |
| 78 | 78 | 4 | 3 | 1 | 1 | 3 | 3 | 4 | 1 | 1 | 1 | 3 | 1 | 2 | 5 | 1 | 3 | 2 | 1 |
| 79 | 79 | 3 | 3 | 1 | 1 | 5 | 3 | 4 | 2 | 1 | 1 | 4 | 1 | 3 | 1 | 3 | 1 | 2 | 2 |
| 80 81 | 80 81 | 3 | 3 5 | 4 5 | 4 | 3 | 5 2 | 2 1 | 2 1 | 2 1 | 2 1 | 2 1 | 2 1 | 4 1 | 3 5 | 4 | 3 2 | 4 2 | 1 |
| 82 | 82 | 4 | 5 | 1 | 5 | 2 | 4 | 2 | 2 | 1 | 2 | 3 | 3 | 3 | 5 | 4 | 4 | 5 | 2 |
| 83 | 83 | 2 | 5 | 2 | 5 | 2 | 3 | 3 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 4 | 1 | 1 | 1 |
| 84 | 84 | 2 | 3 | 1 | 4 | 3 | 1 | 4 | 1 | 2 | 3 | 3 | 3 | 2 | 3 | 4 | 1 | 5 | 2 |
| 85 | 85 | 3 | 3 | 3 | 4 | 2 | 4 | 1 | 1 | 4 | 2 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 |
| 86 | 86 | 3 | 4 | 1 | 3 | 4 | 1 | 3 | 3 | 3 | 1 | 1 | 3 | 1 | 4 | 3 | 2 | 1 | 1 |
| 87 | 87 | 2 | 3 | 1 | 1 | 2 | 3 | 3 | 4 | 1 | 1 | 3 | 2 | 2 | 1 | 2 | 1 | 1 | 2 |
| 88 | 88 | 2 | 4 | 1 | 3 | 2 | 1 | 5 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 4 | 1 | 2 | 2 |
| 89 | 89 | 5 | 5 | 5 | 4 | 3 | 5 | 4 | 4 | 1 | 1 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 3 |
| 90 91 | 90 91 | 1 | 1 | 3 | 1 | 2 | 2 5 | 3 5 | 1 | 1 | 1 | 3 | 1 5 | 3 | 1 | 2 | 2 | 1 5 | 3 |
| 91 | 91 | 2 | 3 2 | 4 | 3 5 | 2 | 3 | 1 | 5 3 | 1 | 1 | 3 | 1 | 3 1 | 2 | 3 | 2 | 3 | 4 |
| 93 | 93 | 2 | 2 | 3 | 1 | 1 | 4 | 3 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 4 | 1 | 2 | 4 |
| 94 | 94 | 2 | 3 | 5 | 5 | 5 | 5 | 3 | 1 | 1 | 1 | 4 | 2 | 4 | 3 | 3 | 1 | 4 | 4 |
| 95 | 95 | 4 | 5 | 1 | 5 | 2 | 2 | 1 | 4 | 1 | 1 | 1 | 3 | 1 | 2 | 4 | 4 | 2 | 4 |
| 96 | 96 | 2 | 3 | 3 | 2 | 3 | 3 | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 4 |
| 97 | 97 | 5 | 5 | 3 | 4 | 5 | 4 | 1 | 2 | 3 | 3 | 2 | 2 | 1 | 1 | 2 | 2 | 4 | 1 |
| 98 | 98 | 2 | 5 | 4 | 2 | 4 | 4 | 3 | 1 | 1 | 1 | 3 | 3 | 4 | 1 | 4 | 2 | 4 | 4 |
| 99 | 99 | 3 | 3 | 1 | 3 | 2 | 2 | 2 | 4 | 2 | 2 | 4 | 3 | 1 | 3 | 1 | 1 | 3 | 4 |
| 100 | 100 | 1 | 4 | 2 | 4 | 2 | 3 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 5 | 1 | 1 | 1 |
| 101 | 101 102 | 1 | 4 5 | 4 | 3 | 5 4 | 5 5 | 4 | 4 | 1 | 1 | 3 | 4 | 3 | 2 | 4 | 4 | 2 | 2 |
| 102 | 102 | 4 | 4 | 1 | 4 | 2 | 5 | 3 | 2 | 1 | 1 | 3 | 1 | 2 | 3 | 3 | 1 | 3 | 2 |
| 103 | 103 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 2 | 4 | 1 | 1 | 2 | 4 | 1 | 2 | 4 | 5 | 4 |
| 105 | 105 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 4 | 4 |
| 106 | 106 | 5 | 5 | 2 | 4 | 2 | 2 | 2 | 4 | 1 | 1 | 4 | 4 | 2 | 2 | 4 | 3 | 2 | 4 |
| | | | | | | | | | | | <u> </u> | | | | | | | | |

| | | | | | demo | ographics | i . | | | | Meyer | ntuiti Ininking Juagin | | | |
|-----|-------|-----------|---------------|-------------------------|------|-----------|-----|-----|-------------|-----------------------------|---------------------------|----------------------------|------------------------|--|--|
| # | ori # | user ID | Design pro | Constru ction pro | Male | College | Shy | Age | Live USA | Extraver sion/Intr aversion | Sensing /Intuiti on | _ | Judging/ Perceiving | | |
| 107 | 107 | 129111162 | n | n | n | у | У | o35 | life | I | N | T | Р | | |
| 108 | 108 | 130956517 | n | n | У | у | n | o50 | life | I | S | F | J | | |
| 109 | 109 | 131065676 | n | n | У | у | n | o50 | life | I | S | Т | J | | |
| 110 | 110 | 131282470 | n | n | n | n | n | o50 | life | E | S | F | J | | |
| 111 | 111 | 131605722 | n | n | У | У | n | o50 | norete | I | S | F | J | | |
| 112 | 112 | 131972405 | n | n | n | У | n | o35 | life | E | S | F | J | | |
| 113 | 113 | 132637962 | n | n | У | У | У | o50 | life | I | N | F | Р | | |
| 114 | 114 | 133702594 | n | n | У | n | У | u25 | life | I | N | F | Р | | |
| 115 | 115 | 133886789 | n | n | n | У | n | o35 | life | E | N | T | J | | |
| 116 | 116 | 135301842 | У | У | n | n | n | o35 | life | E | N | Т | Р | | |
| 117 | 117 | 135814424 | n | n | n | у | n | o35 | life | I | S | Т | J | | |
| 118 | 118 | 136338290 | n | n | n | У | n | o50 | life | I | S | F | Р | | |
| 119 | 119 | 137469735 | n | n | n | n | У | o50 | life | I | S | Т | J | | |
| 120 | 120 | 137501553 | n | n | n | У | У | o50 | life | I | S | F | J | | |
| 121 | 121 | 140176841 | n | n | У | n | n | o50 | life | I | S | F | J | | |
| 122 | 122 | 142616786 | n | n | n | у | У | u25 | life | I | S | F | Р | | |
| 123 | 123 | 143670495 | n | n | n | У | n | o50 | life | E | S | F | Р | | |
| 124 | 124 | 149861970 | n | n | У | У | У | o50 | life | I | N | F | Р | | |
| 125 | 125 | 163165695 | n | n | У | У | У | o50 | life | I | S | T | J | | |
| 126 | 126 | 163666099 | У | У | У | У | n | o50 | life | E | S | T | J | | |
| 127 | 127 | 172557564 | n | n | У | n | У | o50 | life | I | S | T | J | | |
| 128 | 128 | 176310305 | У | У | У | n | n | o35 | life | I | S | T | Р | | |
| 129 | 129 | 177355366 | n | n | У | ٧ | ٧ | o50 | life | I | N | Т | J | | |
| 130 | 130 | 178668498 | n | n | n | У | V | o50 | life | I | S | F | J | | |
| 131 | 131 | 179261444 | n | n | n | y | V | 035 | life | I | S | Т | J | | |
| 132 | 132 | 179816678 | n | n | n | n | n | o50 | life | I | S | F | J | | |
| 133 | 133 | 183373100 | n | n | n | У | n | o50 | life | E | S | T | Р | | |
| 134 | 134 | 185266503 | n | n | n | У | n | o50 | life | I | S | T | J | | |
| 135 | 135 | 185724047 | n | n | У | У | n | o25 | life | I | S | Т | Р | | |
| 136 | 136 | 185855409 | n | n | У | У | У | o35 | life | I | S | T | J | | |
| 137 | 137 | 187741182 | n | У | У | У | У | o35 | life | I | N | T | Р | | |
| 138 | 138 | 188174597 | n | n | n | n | У | o25 | life | I | S | T | Р | | |
| 139 | 139 | 188425567 | n | У | n | n | n | o35 | life | I | S | F | J | | |
| 140 | 140 | 190017130 | n | n | У | У | n | o35 | life | I | S | F | Р | | |
| 141 | 141 | 190417078 | n | n | n | У | У | o50 | life | I | S | T | J | | |
| 142 | 142 | 193671586 | n | n | n | y | n | o50 | life | E | | T | J | | |
| 143 | 143 | 195917529 | n | n | n | n | У | u25 | life | I | S | T | J | | |
| 144 | 144 | 197335764 | n | n | n | n | n | o35 | life | E | N | F | Р | | |
| 145 | 145 | 197876728 | n | n | n | у | n | o35 | life | E | N | F | Р | | |
| 146 | 146 | 198814056 | n | n | n | У | n | o50 | life | I | S | Т | J | | |
| 147 | 147 | 199039381 | n | n | n | y | n | o35 | life | I | S | T | J | | |
| 148 | 148 | 198555620 | n | n | n | n | n | o50 | life | I | | T | J | | |
| 149 | 149 | 204012314 | n | n | n | n | n | o35 | life | E | S | T | J | | |
| 150 | 150 | 207277469 | n | n | У | у | n | o50 | life | I | S | T | Р | | |
| 151 | 151 | 207434681 | n | n | n | n | n | o50 | life | E | S | T | J | | |
| 152 | 152 | 210975170 | n | у | n | у | n | o50 | life | I | S | F | J | | |
| 153 | 153 | 211557634 | У | n | n | у | n | o35 | life | E | N | T | Р | | |
| 154 | 154 | 212982152 | n | у | n | y | У | o50 | life | I | S | F | J | | |
| 155 | 155 | 214156909 | n | у | n | n | n | o50 | life | I | S | F | J | | |
| 156 | 156 | 215645477 | n | n | n | n | n | o50 | life | E | S | Т | J | | |
| 157 | 157 | 215591381 | n | У | n | n | n | o35 | life | E | S | F | Р | | |
| 158 | 158 | 214058351 | n | У | n | n | n | o50 | life | E | S | F | Р | | |
| 159 | 159 | 217818708 | n | n | У | У | n | 035 | life | Е | S | F | J | | |
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| | | | | | | | | _ | | Su | rvey | | | = | | | | | |
|------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|--------|--------|---------------|----|
| | | | | | | | | | | | | | | | | | | | |
| # | ori # | F1 | F2 | F3 | F4 | F5 | F6 | 11 | 12 | 13 | 14 | 15 | 16 | P1 | P2 | Р3 | P4 | P5 | P6 |
| 107 | 107 | 1 | 2 | 5 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 4 | 2 | 4 | 3 |
| 108 | 108 | 2 | 2 | 4 | 1 | 2 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 |
| 109 | 109 | 2 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 1 |
| 110 | 110 | 2 | 5 | 4 | 2 | 4 | 5 | 4 | 3 | 1 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 5 | 4 |
| 111 | 111 | 5 | 4 | 1 | 1 | 4 | 5 | 1 | 1 | 2 | 1 | 1 | 1 | 4 | 2 | 4 | 5 | 4 | 4 |
| 112 | 112 | 1 | 2 | 4 | 1 | 2 | 4 | 2 | 3 | 3 | 2 | 1 | 1 | 1 | 1 | 4 | 1 | 4 | 2 |
| 113 | 113 | 5 | 5 | 2 | 5 | 4 | 2 | 3 | 3 | 1 | 1 | 3 | 1 | 4 | 1 | 2 | 3 | 5 | 1 |
| 114 | 114 | 2 | 3 | 2 | 2 | 3 | 5 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 4 |
| 115 | 115 | 2 | 3 | 4 | 2 | 5 | 5 | 4 | 1 | 1 | 1 | 5 | 5 | 3 | 4 | 4 | 4 | 3 | 3 |
| 116 | 116 | 4 | 5 | 2 | 5 | 3 | 1 | 5 | 1 | 1 | 4 | 5 | 3 | 1 | 4 | 5 | 3 | 5 | 4 |
| 117 | 117 118 | 1 | 2 4 | 4 | 1 | 2 4 | 5 4 | 3 | 1 | 3 1 | 3 1 | 3 | 3 | 2 | 2 | 5 3 | 2 1 | 5 3 | 2 |
| 118 119 | 119 | 2 | 3 | 3 | 2 | 3 | 3 | 4 | 2 | 3 | 3 | 4 | 4 | 2 | 1 | 3 | 2 | 4 | 1 |
| 120 | 120 | 1 | 5 | 5 | 1 | 5 | 5 | 1 | 3 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 |
| 121 | 121 | 2 | 3 | 1 | 3 | 3 | 5 | 4 | 4 | 2 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 122 | 122 | 1 | 4 | 4 | 1 | 3 | 5 | 4 | 4 | 1 | 1 | 2 | 3 | 2 | 3 | 2 | 3 | 5 | 3 |
| 123 | 123 | 1 | 2 | 2 | 1 | 3 | 3 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 2 |
| 124 | 124 | 1 | 5 | 1 | 1 | 4 | 2 | 3 | 2 | 1 | 3 | 3 | 3 | 2 | 1 | 3 | 2 | 1 | 2 |
| 125 | 125 | 2 | 3 | 2 | 3 | 3 | 2 | 1 | 3 | 2 | 1 | 3 | 3 | 3 | 1 | 2 | 3 | 2 | 3 |
| 126 | 126 | 5 | 5 | 2 | 5 | 2 | 2 | 4 | 3 | 1 | 1 | 3 | 3 | 2 | 1 | 5 | 2 | 1 | 5 |
| 127 | 127 | 4 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 1 | 1 | 3 | 2 | 1 | 2 | 4 | 3 | 4 | 4 |
| 128 | 128 | 4 | 3 | 1 | 2 | 2 | 5 | 2 | 2 | 2 | 2 | 2 | 3 | 1 | 2 | 2 | 2 | 2 | 3 |
| 129 | 129 | 4 | 3 | 1 | 1 | 3 | 5 | 5 | 1 | 1 | 1 | 4 | 4 | 4 | 2 | 3 | 3 | 3 | 3 |
| 130 | 130 | 2 | 4 | 4 | 2 | 3 | 5 | 4 | 2 | 1 | 1 | 2 | 2 | 3 | 2 | 5 | 3 | 5 | 3 |
| 131 | 131 | 2 | 5 | 4 | 2 | 4 | 4 | 3 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 3 | 2 |
| 132 | 132 | 1 | 4 | 2 | 1 | 4 | 5 | 2 | 2 | 3 | 2 | 1 | 2 | 1 | 3 | 4 | 2 | 3 | 2 |
| 133 | 133 | 1 | 5 | 5 2 | 1 | 4 | 5 | 2 | 1 | 1 | 1 | 4 | 4 | 5 1 | 5 | 5 | 1 | 5 4 | 5 |
| 134 135 | 134 135 | 1 4 | 2 5 | 4 | 3 | 2 | 5 5 | 3 5 | 2 5 | 4 | 4 | 3 5 | 2 5 | 4 | 4 | 4 | 1 5 | 4 | 4 |
| 136 | 136 | 2 | 3 | 3 | 2 | 3 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 4 | 2 | 4 | 2 |
| 137 | 137 | 2 | 5 | 1 | 2 | 3 | 2 | 4 | 1 | 1 | 1 | 4 | 1 | 1 | 4 | 4 | 3 | 4 | 1 |
| 138 | 138 | 1 | 5 | 5 | 4 | 5 | 5 | 2 | 5 | 1 | 3 | 4 | 3 | 5 | 2 | 4 | 2 | 4 | 5 |
| 139 | 139 | 1 | 5 | 2 | 1 | 2 | 5 | 2 | 3 | 1 | 1 | 1 | 2 | 4 | 1 | 2 | 2 | 4 | 1 |
| 140 | 140 | 1 | 2 | 1 | 3 | 3 | 2 | 3 | 4 | 3 | 2 | 3 | 3 | 1 | 1 | 1 | 2 | 3 | 2 |
| 141 | 141 | 4 | 4 | 4 | 2 | 4 | 4 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 3 | 1 |
| 142 | 142 | 4 | 5 | 2 | 5 | 5 | 5 | 1 | 3 | 1 | 1 | 1 | 1 | 3 | 2 | 5 | 2 | 1 | 2 |
| 143 | 143 | 5 | 4 | 2 | 2 | 2 | 5 | 2 | 3 | 3 | 1 | 5 | 5 | 2 | 1 | 5 | 4 | 4 | 5 |
| 144 | 144 | 2 | 5 | 2 | 5 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 4 | 4 | 3 | 1 |
| 145 | 145 | 3 | 5 | 1 | 3 | 2 | 2 | 4 | 4 | 1 | 3 | 4 | 4 | 2 | 1 | 2 | 2 | 2 | 2 |
| 146 | 146 | 2 | 2 | 2 | 1 | 1 | 4 | 3 | 1 | 2 | 1 | 1 | 1 | 4 | 4 | 3 | 3 | 2 | 5 |
| 147 | 147 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 3 | 1 | 1 | 2 | 3 | 1 | 4 | 4 | 3 | 4 | 4 |
| 148 | 148 | 1 | 4 | 4 | 2 | 5 | 4 | 3 | 1 | 3 | 1 | 2 | 1 | 1 | 2 | 4 | 2 | 4 | 1 |
| 149 | 149 | 1 | 5 | 4 | 1 | 4 | 5 | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 1 | 1 | 1 | 5 | 1 |
| 150 | 150 | 2 5 | 5 | 2 | 3 | 5 | 5 | 4 | 2 1 | 1 | 1 | 2 | 4 | 2 4 | 1 | 2 | 2 | <u>2</u> 5 | 2 |
| 151 152 | 151 152 | 2 | 2 | 4 2 | 5 3 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 1 | 2 |
| 153 | 153 | 1 | 3 | 1 | 2 | 1 | 2 | 3 | 1 | 3 | 1 | 3 | 1 | 2 | 2 | 2 | 2 | 4 | 1 |
| 154 | 154 | 5 | 5 | 4 | 4 | 4 | 4 | 3 | 3 | 1 | 2 | 3 | 3 | 4 | 4 | 4 | 3 | 5 | 3 |
| 155 | 155 | 5 | 3 | 4 | 1 | 2 | 4 | 4 | 1 | 1 | 1 | 3 | 4 | 2 | 1 | 4 | 2 | 2 | 2 |
| 156 | 156 | 2 | 3 | 5 | 2 | 4 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 4 | 2 | 2 | 1 |
| 157 | 157 | 5 | 4 | 5 | 2 | 4 | 5 | 3 | 1 | 2 | 3 | 2 | 1 | 1 | 4 | 4 | 4 | 5 | 4 |
| 158 | 158 | 5 | 5 | 5 | 1 | 2 | 5 | 3 | 2 | 1 | 1 | 1 | 3 | 1 | 2 | 3 | 2 | 5 | 3 |
| 159 | 159 | 4 | 4 | 4 | 4 | 5 | 5 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 1 | 2 |
| | | | | | | | | | - | | | | | | | | | | |

| | | | | | demo | ographics | . | | | | Meyer | s-Briggs | |
|-----|-------|-----------|---------------|-------------------------|------|-----------|----------|-----|-------------|-----------------------------|---------------------------|----------------------|------------------------|
| # | ori # | user ID | Design pro | Constru ction pro | Male | College | Shy | Age | Live USA | Extraver sion/Intr aversion | Sensing /Intuiti on | Thinking /Feeling | Judging/ Perceiving |
| 160 | 160 | 218244075 | n | у | n | n | n | o50 | life | I | S | F | J |
| 161 | 161 | 218517506 | n | n | n | у | n | o35 | life | E | S | T | J |
| 162 | 162 | 218092066 | n | n | n | у | n | o50 | life | E | N | F | Р |
| 163 | 163 | 218599851 | n | n | n | n | n | o50 | life | E | S | F | Р |
| 164 | 164 | 220117375 | n | n | n | у | n | o35 | life | I | S | T | J |
| 165 | 165 | 222894269 | n | n | У | у | n | o25 | life | E | S | F | J |
| 166 | 166 | 224026365 | n | У | n | у | n | o50 | life | E | S | T | J |
| 167 | 167 | 224964203 | n | У | У | у | n | o50 | life | E | S | T | J |
| 168 | 168 | 226455032 | n | n | n | у | n | o50 | life | I | S | F | J |
| 169 | 169 | 228586398 | n | n | n | у | У | o35 | life | I | S | T | J |
| 170 | 170 | 229745992 | n | n | n | у | n | o50 | life | I | S | F | J |
| 171 | 171 | 231592413 | n | n | У | у | n | o25 | life | E | N | F | Р |
| 172 | 172 | 252233474 | n | n | У | у | У | o35 | life | I | N | T | J |
| 173 | 173 | 252140578 | n | n | n | n | n | o50 | life | I | S | F | J |
| 174 | 174 | 252393624 | n | n | n | n | У | o50 | life | I | S | T | Р |
| 175 | 175 | 252645107 | n | n | n | n | У | o50 | life | I | N | F | Р |
| 176 | 176 | 253245612 | n | n | n | n | n | o50 | life | E | N | F | Р |
| 177 | 177 | 254302887 | n | n | n | n | n | o35 | life | I | N | F | Р |
| 178 | 178 | 254698575 | n | n | У | у | n | o50 | life | E | S | T | J |
| 179 | 179 | 254082128 | n | n | n | у | n | o25 | life | E | S | T | J |
| 180 | 180 | 255453137 | У | n | n | у | n | o50 | life | E | N | F | Р |
| 181 | 181 | 255520475 | n | n | n | n | n | o35 | life | I | S | T | Р |
| 182 | 182 | 255752338 | n | n | У | у | n | o35 | life | I | S | T | J |
| 183 | 183 | 255853718 | n | n | n | n | n | u25 | life | E | S | T | J |
| 184 | 184 | 255860664 | n | n | У | у | n | o50 | life | I | S | F | J |
| 185 | 185 | 256522567 | n | n | У | У | n | o50 | life | I | S | F | J |
| 186 | 186 | 257042779 | n | n | n | n | n | o25 | life | E | S | F | J |
| 187 | 187 | 257124091 | n | n | n | У | n | o35 | life | E | N | F | P |
| 188 | 188 | 257359825 | n | n | n | n | n | o25 | life | E | S | F | P |
| 189 | 189 | 257783080 | n | n | n | n | У | o50 | life | E | S | Т | J |
| 190 | 190 | 258062448 | n | n | n | n | n | o50 | life | E | N | F | P |
| 191 | 191 | 257898663 | У | n | У | У | n | o35 | life | I | S | F | J |
| 192 | 192 | 258601671 | n | n | n | n | У | o50 | life | I | S | Т | J |
| 193 | 193 | 258651478 | n | У | У | У | n | o50 | life | E | S | Т | J |
| 194 | 194 | 258948723 | n | У | n | У | n | o25 | life | I | S | F | J |
| 195 | 195 | 259304323 | n | n | У | У | У | o35 | life | I | S | T | J |
| 196 | 196 | 258741979 | n | n | n | n | У | o50 | life | I | S | T | J |
| 197 | 197 | 259730284 | n | n | n | У | У | o35 | life | I | N | F | Р |
| 198 | 198 | 258251734 | n | У | n | n | n | o35 | life | I | S | F | J |
| 199 | 199 | 258570410 | n | n | У | У | n | o35 | life | I | S | T | J |
| 200 | 200 | 260584790 | n | У | У | n | У | o50 | life | I | S | T | J |
| 201 | 201 | 260989297 | n | У | n | n | n | o35 | life | E | S | F | J |
| 202 | 202 | 261128119 | У | n | У | У | n | o25 | life | I | N | F | J |
| 203 | 203 | 261408889 | n | У | n | n | n | o25 | life | E | S | F | Р |
| 204 | 204 | 261124990 | n | n | У | У | У | o35 | life | I | S | F | Р |
| 205 | 205 | 261627881 | n | n | n | У | У | o35 | life | I | S | F | J |
| 206 | 206 | 261543341 | n | n | n | у | У | o25 | life | I | S | Т | J |
| 207 | 207 | 261605236 | n | У | n | n | n | o25 | life | E | N | F | Р |
| 208 | 208 | 262796561 | n | n | n | n | n | o35 | life | I | N | F | Р |
| 209 | 209 | 262978585 | n | n | n | n | n | o35 | life | E | S | F | Р |
| 210 | 210 | 262492279 | n | у | n | У | n | o35 | life | Е | S | Τ | Р |
| 211 | 211 | 263071090 | n | n | У | У | n | o50 | life | Е | S | F | J |
| 212 | 212 | 263164006 | n | у | n | y | n | u25 | life | E | S | T | J |

| # Ori # F1 F2 F3 F4 F5 F6 11 12 13 14 15 16 P1 P2 P3 P4 P5 P6 160 | | | | | | | | | | | Su | rvey | | | | | | | | |
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| 160 | | : # | F4 | F 0 | F2 | F.4 | | F./ | | | | | | ., | D4 | D0 | D.O. | D4 | DE | D. |
| 101 | # | Ori # | FI | FΖ | гз | F4 | FO | го | '' | 12 | 13 | 14 | 15 | 10 | ы | PZ | Р3 | P4 | Po | Po |
| 102 | 160 | 160 | 2 | 4 | 5 | 1 | 3 | 5 | 2 | 3 | 1 | 1 | 3 | 1 | 1 | 2 | 4 | 1 | 4 | 2 |
| 163 | 161 | 161 | 1 | | | 2 | | | | 1 | 1 | 1 | | | | 2 | 1 | | 1 | 1 |
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| 170 | | | | | | | | | | 2 | 1 | 1 | | | 4 | 5 | 1 | | | |
| 171 | 169 | 169 | 5 | 4 | 2 | 1 | 5 | 5 | 4 | 3 | 1 | 1 | 4 | 4 | 2 | 4 | 3 | 3 | 2 | 2 |
| 172 | 170 | | 2 | | 2 | 3 | | 1 | 4 | 1 | 1 | | | 3 | 5 | 2 | 4 | | | |
| 173 | | | | | | | | | | | | | | | | | | | | |
| 174 | | | | | | | | | | | | | | | | | | | | |
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| 178 | | | | | | | | | | | | | | | | | | | | |
| The color of the | | 178 | 2 | | 1 | 3 | 2 | 2 | 5 | 1 | 1 | 1 | 3 | 3 | 5 | 1 | 4 | | 2 | 4 |
| 181 | 179 | 179 | 1 | 4 | 4 | 1 | 2 | 5 | 3 | 2 | 1 | 1 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 4 |
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| 184 184 2 5 5 1 5 5 1 1 1 1 2 4 2 4 2 185 185 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | | | | | | | | | | | | | |
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| 187 1 1 2 2 5 5 3 3 1 3 3 1 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 | | | | | | | | | | | | | | | | | | | | |
| 188 188 2 3 2 1 2 5 3 3 1 1 3 3 2 2 4 2 2 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 <td></td> | | | | | | | | | | | | | | | | | | | | |
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| 199 199 2 5 4 2 1 3 3 2 1 3 3 2 1 3 3 2 2 1 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <td></td> | | | | | | | | | | | | | | | | | | | | |
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| 213 233 263729522 n | | | | | | dem | ographics | 3 | | | | Meyer | s-Briggs | |
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| 214 214 26379507 | # | ori # | user ID | • | ction | Male | College | Shy | Age | | sion/Intr | /Intuiti | _ | Judging/ Perceiving |
| 215 | 213 | 213 | 263729622 | n | У | n | n | n | o35 | life | I | S | F | J |
| 216 | 214 | 214 | 263797507 | n | n | n | У | n | o50 | life | E | S | T | J |
| 217 2417 244709550 n | 215 | 215 | 263687587 | n | У | n | n | n | o35 | life | E | S | T | J |
| 218 218 244907240 n | 216 | 216 | 262995499 | n | У | n | У | n | o25 | life | E | S | F | Р |
| 220 220 26463548 n | 217 | 217 | 264709550 | n | n | n | У | n | o35 | life | E | N | F | J |
| 220 220 226439782 | 218 | 218 | 264907240 | n | n | n | n | n | o35 | life | E | S | Т | J |
| 221 221 2658,25683 | 219 | 219 | 265463545 | n | n | У | n | n | o35 | life | I | S | Т | J |
| 222 222 225669059 | 220 | 220 | 264639782 | n | У | n | У | n | o35 | life | I | S | F | J |
| 223 223 266-233800 | 221 | 221 | 265825683 | n | У | n | У | n | o35 | norete | E | S | Т | Р |
| 224 224 224 224 225 225 226 226 226 226 226 226 226 226 226 226 226 226 226 226 226 226 226 226 226 226 226 226 226 226 226 226 227 227 227 227 227 227 227 227 227 227 227 227 227 227 227 228 228 228 228 228 228 228 228 228 228 228 228 228 236 231 231 231 231 231 231 231 231 234 234 234 234 234 231 234 234 234 234 234 234 234 234 234 234 234 234 234 234 234 234 234 234 234 234 234 234 <td>222</td> <td>222</td> <td>265669059</td> <td>n</td> <td>n</td> <td>n</td> <td>У</td> <td>n</td> <td>o35</td> <td>life</td> <td>E</td> <td>N</td> <td>F</td> <td>Р</td> | 222 | 222 | 265669059 | n | n | n | У | n | o35 | life | E | N | F | Р |
| 225 225 226607810 | 223 | 223 | 266233800 | n | У | n | У | n | o50 | life | I | S | F | J |
| 226 226 2260/200844 n y n y n oSO life E N F P 227 227 266376278 n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n < | 224 | 224 | 266458877 | n | n | n | n | n | o35 | life | I | S | Т | J |
| 227 227 226376278 | 225 | 225 | 266607810 | n | n | n | n | У | o25 | life | I | N | Т | J |
| 228 228 266263228 n | 226 | 226 | 266020984 | n | У | n | У | n | o50 | life | Е | N | F | Р |
| 229 229 266611899 n | 227 | 227 | 266376278 | n | n | У | У | n | o50 | life | Е | N | F | Р |
| 230 230 266843643 n | 228 | 228 | 266263228 | n | n | n | n | У | o25 | life | I | S | F | J |
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| 232 232 267140356 n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n < | 230 | 230 | 266843643 | n | У | n | У | У | o35 | life | I | S | Т | J |
| 233 233 267271505 n n n n y n o50 life E N F P | 231 | 231 | 265844448 | n | У | n | У | У | u25 | norete | I | S | Т | J |
| 233 233 267271505 n n n n n o o o life E N F P 234 234 235 26727338 n n n y y n o o life I S T J 236 236 268048335 n n n n y y o o o life I S T J 237 237 236849068 n y n y n o o o o s F J 238 238586060 n y n y n o o s F J 240 2486867513 n y n n o o o o s F P 241 241 249004244 n y n | 232 | 232 | 267140356 | n | n | n | n | ٧ | o50 | life | I | S | F | J |
| 235 235 267727338 | 233 | 233 | 267271505 | n | n | n | У | n | o50 | life | Е | N | F | Р |
| 235 235 267727338 | 234 | 234 | 267861815 | n | n | n | V | n | o50 | life | Е | S | F | J |
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| 237 237 268649068 n y n y n o35 life E S F J 238 238 268558002 n y n y n o35 norete l N T P 239 268280856 n y n y n o50 life l S F J 240 240 268867513 n y y n n o35 life E S F P 241 241 269004244 n y n n n n n n p n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n <td>236</td> <td>236</td> <td></td> <td>n</td> <td></td> <td></td> <td></td> <td></td> <td>o35</td> <td>life</td> <td>I</td> <td></td> <td>Т</td> <td>J</td> | 236 | 236 | | n | | | | | o35 | life | I | | Т | J |
| 238 238 268558002 n y n y n o35 norete I N T P 239 239 268280856 n y n y n o50 life I S F J 240 268867513 n y n n o35 life E S F J 241 241 269004244 n y n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n </td <td>237</td> <td>237</td> <td></td> <td>n</td> <td>٧</td> <td>n</td> <td></td> <td>n</td> <td>o35</td> <td>life</td> <td>Е</td> <td>S</td> <td>F</td> <td>J</td> | 237 | 237 | | n | ٧ | n | | n | o35 | life | Е | S | F | J |
| 239 239 268280856 n y n y n o50 life I S F J 240 240 26867513 n y y n n 035 life E S F P 241 241 269004244 n y n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n< | 238 | 238 | 268558002 | n | | n | | n | o35 | norete | I | N | Т | Р |
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| 241 241 269004244 n y n n n o o o o o o o fife E S T J 242 242 269010531 n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n | | | | | | | | | | _ | Е | | | P |
| 242 242 269010531 n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n < | | | | | | | | | | | | | | J |
| 243 243 268510327 n n n y y o50 norete I N T J 244 244 269353094 n y n y n o25 life I S T J 245 245 269224223 n n y y n o50 life I S F J 246 269685615 y n n n y y n o50 life I N F J 247 247 269725058 n n n n y y o50 life I N F J 248 248 270391955 n y n y o25 life E S T J 25 250 270200478 n n n n n n n n | | | | | | | | | | | ı | | F | J |
| 244 244 269353094 n y n y n o25 life I S T J 245 245 269224223 n n y y n o50 life I S F J 246 246 2669685615 y n n y n o50 life I N F J 247 247 269725058 n n n n n n n y y o50 life I N F J 248 248 270391955 n y n y y o25 life E S T J 249 249 270552986 n n n n n n n o25 life E S T J 250 250 27020478 n y | 243 | 243 | 268510327 | n | n | n | V | ٧ | o50 | norete | ı | N | Т | J |
| 245 245 269224223 n n y y n o50 life I S F J 246 246 269685615 y n n y n o50 life I N F J 247 247 269725058 n n n n y y o50 life I S F J 248 248 270391955 n y n y o25 life E S T J 249 249 270552986 n n n n y n o25 life E S T J 250 250 270200478 n y n n n n n n n n n n n n n n n n n n n n n | 244 | 244 | 269353094 | n | | n | V | n | o25 | life | I | S | Т | J |
| 246 246 269685615 y n n y n o50 life I N F J 247 247 269725058 n n n n y y o50 life I S F J 248 248 270391955 n y n y y o25 life E S T J 249 249 270552986 n n n n n y n o25 life E S T J 250 250 270200478 n y n n o50 life E S F J 251 269703311 n n n n n o35 life E S F J 251 252 252 270669132 y y y n o35 life <td>245</td> <td>245</td> <td>269224223</td> <td>n</td> <td></td> <td></td> <td></td> <td>n</td> <td>o50</td> <td>life</td> <td>I</td> <td>S</td> <td>F</td> <td>J</td> | 245 | 245 | 269224223 | n | | | | n | o50 | life | I | S | F | J |
| 247 247 269725058 n n n n y y o50 life I S F J 248 248 270391955 n y n y y o25 life E S T J 249 249 270552986 n n n n n n y n o25 life E S T J 250 250 270200478 n y n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n </td <td>246</td> <td>246</td> <td>269685615</td> <td>У</td> <td>n</td> <td></td> <td></td> <td>n</td> <td>o50</td> <td>life</td> <td>I</td> <td>N</td> <td>F</td> <td>J</td> | 246 | 246 | 269685615 | У | n | | | n | o50 | life | I | N | F | J |
| 248 248 270391955 n y n y y o25 life E S T J 249 249 270552986 n n n n n n y n o25 life E S T J 250 250 270200478 n y n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n | 247 | 247 | 269725058 | n | n | n | | ٧ | o50 | life | I | S | F | J |
| 249 249 270552986 n n n n y n o25 life E S T J 250 250 270200478 n y n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n <td< td=""><td>248</td><td>248</td><td>270391955</td><td>n</td><td></td><td>n</td><td></td><td>V</td><td>o25</td><td>life</td><td>Е</td><td></td><td>Т</td><td>J</td></td<> | 248 | 248 | 270391955 | n | | n | | V | o25 | life | Е | | Т | J |
| 250 250 270200478 n y n n n o50 life E S F J 251 251 269970311 n n n n y n o35 life E S T J 252 252 270669132 y y y y n o35 life E S F P 253 253 271165726 n y n n n n n n o50 life I S F P 254 254 271129890 n n n n y n o35 life I S F J 255 255 271083773 n n n n y y u25 life E S T J 256 256 271589543 n n | | | | | | | | | | | | | T | J |
| 251 251 269970311 n n n y n o35 life E S T J 252 252 270669132 y y y y n o35 life E S F P 253 253 271165726 n y n n n o35 life I S F P 254 254 271129890 n n n n y n o35 life I S F P 255 255 271083773 n n n n y n o25 life E S T J 256 256 271589543 n n n y y u25 life I S F J 257 257 271941366 n n y y y o35 | | | 270200478 | | | | | | | _ | | | F | J |
| 252 252 270669132 y y y y n o35 life E S F P 253 253 271165726 n y n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>J</td></td<> | | | | | | | | | | | | | | J |
| 253 253 271165726 n y n n n o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o < | | | | | | | | | | _ | | | F | Р |
| 254 254 271129890 n n n y n o35 life I S F J 255 255 271083773 n n n y n o25 life E S T J 256 256 271589543 n n n y y u25 life I S F J 257 257 271941366 n n y y y o35 life I S F P 258 258 271408731 n n y y n o35 norete I S T P 259 259 272117719 n n n n n n n n n n n n n n n n n n n n n n n n <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td>I</td> <td></td> <td></td> <td>Р</td> | | | | | | | | | | _ | I | | | Р |
| 255 255 271083773 n n n y n o25 life E S T J 256 256 271589543 n n n y y u25 life I S F J 257 257 271941366 n n y y y o35 life I S F P 258 258 271408731 n n y y n o35 norete I S T P 259 259 272117719 n n n n n n o50 life I S T J 260 260 272044542 n y n y n o35 life I S F J 261 261 272188903 n n n y y o50 life< | | | | | | | | | | _ | I | | | J |
| 256 256 271589543 n n n y y u25 life I S F J 257 257 271941366 n n y y y o35 life I S F P 258 258 271408731 n n y y n o35 norete I S T P 259 259 272117719 n n n n n n o50 life I S T J 260 260 272044542 n y n y n o35 life I S F J 261 261 272188903 n n n y y o50 life I S T J 262 262 273443974 n n n n n n n | | | | | | | | | | _ | Е | | | J |
| 257 257 271941366 n n y y y o35 life I S F P 258 258 271408731 n n y y n o35 norete I S T P 259 259 272117719 n n n n n o50 life I S T J 260 260 272044542 n y n y n o35 life I S F J 261 261 272188903 n n n y y o50 life I S T J 262 262 273443974 n n n n n n n n n n n N F P 263 263 272840189 n n n n n | | | | | | | У | У | ٥٢ | 1.0 | I | | F | J |
| 258 258 271408731 n n y y n o35 norete I S T P 259 259 272117719 n n n n n o50 life I S T J 260 260 272044542 n y n y n o35 life I S F J 261 261 272188903 n n n y y y o50 life I S T J 262 262 273443974 n n y y y o50 life I N F P 263 263 272840189 n y n n n n n n n n n n n n n n n n n n n n n <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>У</td> <td>у</td> <td></td> <td></td> <td>I</td> <td></td> <td></td> <td>Р</td> | | | | | | | У | у | | | I | | | Р |
| 259 259 272117719 n n n n n o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o o < | | | | | | | | | | 1 | I | | | Р |
| 260 260 272044542 n y n y n o35 life I S F J 261 261 272188903 n n y y y o50 life I S T J 262 262 273443974 n n y y y o50 life I N F P 263 263 272840189 n y n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n </td <td></td> <td>I</td> <td></td> <td></td> <td>J</td> | | | | | | | | | | | I | | | J |
| 261 261 272188903 n n y y y o50 life I S T J 262 262 273443974 n n y y y o50 life I N F P 263 263 272840189 n y n n n o50 life E N F J 264 264 273355708 n n n n n o50 life I S F P | | 260 | | n | | | | | o35 | life | I | | F | J |
| 262 262 273443974 n n y y y o50 life I N F P 263 263 272840189 n y n n n o50 life E N F J 264 264 273355708 n n n n n o50 life I S F P | | | | | | | | | | | I | | T | J |
| 263 263 272840189 n y n n n o50 life E N F J 264 264 273355708 n n n n n o50 life I S F P | | | | | | | | _ | | | I | | F | Р |
| 264 264 273355708 n n n n n o50 life I S F P | | | | | | | | _ | | | Е | N | | J |
| | | 264 | | | | | | | | life | | | F | Р |
| | 265 | 265 | 273655527 | n | n | n | У | n | o25 | life | I | N | F | Р |

| | | | | | | | | | | Su | rvey | | | | | | | | |
|------------|------------|--------|--------|--------|--------|--------|--------|----|--------|----|--------|--------|--------|--------|--------|--------|--------|----|--------|
| | | | | | | | | | | | | | | | | | | | |
| # | ori # | F1 | F2 | F3 | F4 | F5 | F6 | I1 | 12 | 13 | 14 | 15 | 16 | P1 | P2 | Р3 | P4 | P5 | P6 |
| 213 | 213 | 1 | 3 | 4 | 1 | 5 | 5 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 3 | 4 | 2 |
| 214 | 214 | 2 | 2 | 1 | 2 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 |
| 215 | 215 | 1 | 3 | 5 | 5 | 4 | 4 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 |
| 216 | 216 | 3 | 5 | 4 | 2 | 2 | 5 | 5 | 2 | 3 | 1 | 3 | 3 | 4 | 3 | 3 | 3 | 4 | 1 |
| 217 | 217 | 1 | 1 | 4 | 1 | 4 | 4 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 1 | 1 | 1 |
| 218 | 218 | 4 | 1 | 1 | 1 | 2 | 4 | 4 | 1 | 1 | 1 | 3 | 3 | 2 | 2 | 4 | 1 | 4 | 1 |
| 219 | 219 | 2 | 2 | 1 | 1 | 3 | 5 | 3 | 1 | 1 | 1 | 1 | 3 | 1 | 3 | 3 | 3 | 2 | 1 |
| 220 | 220 | 2 | 3 | 2 | 1 | 5 | 3 | 4 | 1 | 1 | 3 | 1 | 3 | 1 | 1 | 4 | 2 | 2 | 4 |
| 221 | 221 222 | 2 | 4 | 3 5 | 3 2 | 5 5 | 5 5 | 4 | 2 1 | 1 | 2 1 | 2 4 | 2 4 | 2 4 | 3 | 3 | 1 4 | 2 | 3 4 |
| 223 | 223 | 3 | 5 | 5 | 5 | 5 | 3 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 |
| 224 | 224 | 1 | 3 | 2 | 4 | 2 | 3 | 1 | 3 | 1 | 1 | 3 | 2 | 2 | 4 | 4 | 2 | 4 | 4 |
| 225 | 225 | 1 | 5 | 5 | 4 | 5 | 5 | 4 | 3 | 1 | 1 | 3 | 1 | 4 | 4 | 2 | 4 | 2 | 2 |
| 226 | 226 | 5 | 5 | 1 | 5 | 3 | 3 | 3 | 1 | 3 | 4 | 2 | 3 | 2 | 5 | 1 | 2 | 2 | 4 |
| 227 | 227 | 5 | 5 | 1 | 5 | 2 | 1 | 4 | 1 | 1 | 3 | 4 | 3 | 1 | 1 | 1 | 4 | 3 | 4 |
| 228 | 228 | 1 | 5 | 3 | 1 | 4 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 2 |
| 229 | 229 | 5 | 5 | 2 | 1 | 5 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 1 |
| 230 | 230 | 4 | 1 | 3 | 1 | 2 | 5 | 3 | 2 | 1 | 1 | 3 | 2 | 1 | 2 | 3 | 1 | 1 | 2 |
| 231 | 231 | 5 | 3 | 2 | 1 | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 4 |
| 232 | 232 | 5 | 5 | 2 | 4 | 4 | 5 | 4 | 3 | 1 | 1 | 1 | 3 | 2 | 2 | 4 | 1 | 1 | 2 |
| 233 | 233 | 4 | 4 | 5 | 1 | 4 | 4 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 5 | 1 |
| 234 | 234 | 2 | 5 | 5 | 2 | 4 | 1 | 1 | 1 | 2 | 1 | 1 | 3 | 1 | 1 | 2 | 2 | 4 | 3 |
| 235 | 235 | 2 | 5 | 4 | 1 | 5 | 4 | 5 | 5 | 2 | 3 | 4 | 2 | 1 | 1 | 3 | 1 | 4 | 3 |
| 236 | 236 | 1 | 2 | 4 | 1 | 3 | 3 | 3 | 3 | 1 | 1 | 3 | 3 | 1 | 1 | 1 | 2 | 1 | 2 |
| 237 | 237 | 1 | 1 | 2 | 1 | 3 | 2 | 3 | 1 | 1 | 1 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 |
| 238 | 238 | 3 | 5 | 2 | 5 | 2 | 2 | 3 | 1 | 1 | 1 | 3 | 1 | 4 | 1 | 2 | 4 | 2 | 2 |
| 239 | 239 | 2 | 5 | 1 | 2 | 2 | 5 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 1 | 4 | 4 |
| 240 | 240 | 2 | 4 | 1 | 4 | 3 | 2 | 2 | 2 | 1 | 3 | 2 | 2 | 3 | 2 | 1 | 3 | 4 | 2 |
| 241 | 241 242 | 2 | 5 3 | 5 4 | 2 1 | 2 | 5 5 | 3 | 3 | 1 | 1 | 1 | 3 | 1 | 1 | 5 2 | 2 | 2 | 2 |
| 242 | 242 | 2 | 1 | 3 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| 244 | 244 | 2 | 4 | 4 | 2 | 5 | 5 | 5 | 4 | 2 | 4 | 4 | 2 | 3 | 4 | 4 | 3 | 5 | 2 |
| 245 | 245 | 1 | 4 | 2 | 2 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 4 | 3 | 4 | 5 |
| 246 | 246 | 2 | 2 | 3 | 2 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 |
| 247 | 247 | 2 | 4 | 1 | 4 | 2 | 4 | 4 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 4 | 1 |
| 248 | 248 | 2 | 3 | 5 | 1 | 4 | 4 | 2 | 3 | 1 | 1 | 4 | 3 | 1 | 3 | 1 | 1 | 3 | 2 |
| 249 | 249 | 2 | 5 | 5 | 2 | 4 | 5 | 5 | 2 | 1 | 1 | 4 | 4 | 3 | 2 | 5 | 4 | 5 | 2 |
| 250 | 250 | 2 | 5 | 3 | 5 | 4 | 4 | 4 | 4 | 3 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 1 | 2 |
| 251 | 251 | 1 | 1 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 3 | 2 |
| 252 | 252 | 4 | 5 | 5 | 1 | 3 | 5 | 4 | 2 | 2 | 1 | 4 | 2 | 4 | 2 | 5 | 4 | 5 | 2 |
| 253 | 253 | 5 | 3 | 2 | 1 | 2 | 3 | 1 | 3 | 1 | 1 | 4 | 3 | 4 | 1 | 2 | 2 | 2 | 3 |
| 254 | 254 | 1 | 3 | 2 | 1 | 1 | 3 | 4 | 1 | 3 | 1 | 4 | 2 | 1 | 4 | 1 | 2 | 4 | 4 |
| 255 | 255 | 1 | 1 | 4 | 1 | 3 | 1 | 4 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 3 | 4 | 2 |
| 256 | 256 | 2 | 2 | 5 | 1 | 5 | 5 | 4 | 3 | 1 | 1 | 4 | 4 | 1 | 1 | 1 | 4 | 5 | 5 |
| 257 | 257 | 1 | 3 | 4 | 2 | 1 | 2 | 4 | 2 | 1 | 1 | 2 | 2 | 3 | 2 | 3 | 2 | 4 | 4 |
| 258 | 258 | 2 | 1 | 2 | 5 | 1 | 2 | 5 | 5 | 5 | 5 | 5 | 5 | 3 | 1 | 3 | 2 | 2 | 1 |
| 259 | 259 | 2 | 3 | 2 | 2 | 1 | 4 | 4 | 4 | 1 | 1 | 2 | 5 | 1 | 4 | 4 | 1 | 1 | 1 |
| 260 | 260 | 2 | 5 | 2 | 2 | 1 | 5 5 | 2 | 1 | 1 | 1 | 2 | 1 | 3 | 1 | 4 | 2 | 4 | 2 |
| 261 | 261 262 | 4 2 | 5 5 | 4 2 | 2 | 3 1 | 4 | 1 | 2 1 | 1 | 3 | 4 1 | 4 1 | 4 1 | 2 1 | 5 1 | 3 | 4 | 2 |
| 262 263 | 262 | 1 | 5 | 3 | 2 1 | 3 | 3 | 2 | 1 | 2 | 1 | 3 | 2 | 1 | 3 | 1 | 2 | 3 | 3 |
| 264 | 264 | 2 | 2 | 1 | 1 | 2 | 3 | 3 | 1 | 1 | 1 | 3 | 1 | 2 | 1 | 1 | 1 | 2 | 2 |
| 265 | 265 | 2 | 4 | 4 | 2 | 3 | 5 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | 3 | 1 | 3 |
| 203 | 200 | | 4 | 4 | | J | J | | 3 | | | J | | | J | 4 | J | 1 | J |

| | | | | | demo | ographics | 5 | | | | Meyer | s-Briggs | |
|-----|-------|-----------|---------------|-------------------------|------|-----------|-----|-----|-------------|-----------------------------|---------------------------|----------------------|------------------------|
| # | ori # | user ID | Design pro | Constru ction pro | Male | College | Shy | Age | Live USA | Extraver sion/Intr aversion | Sensing /Intuiti on | Thinking /Feeling | Judging/ Perceiving |
| 266 | 266 | 274760647 | n | n | У | У | У | o35 | life | I | S | T | Р |
| 267 | 267 | 274674645 | n | n | У | у | У | o35 | norete | I | S | Т | Р |
| 268 | 268 | 275020491 | n | n | n | у | n | o25 | life | E | S | F | J |
| 269 | 269 | 274859317 | n | n | n | У | n | o35 | life | E | S | T | J |
| 270 | 270 | 274898853 | n | n | n | У | n | o50 | life | E | S | F | J |
| 271 | 271 | 275048351 | n | n | У | У | n | o50 | life | E | S | T | Р |
| 272 | 272 | 275355327 | n | n | n | У | n | o25 | life | I | N | F | J |
| 273 | 273 | 275463903 | n | n | У | У | n | o50 | life | I | S | T | J |
| 274 | 274 | 277007525 | у | n | n | У | n | o35 | life | E | N | T | J |
| 275 | 275 | 276515119 | n | У | n | У | n | o25 | life | E | N | F | J |
| 276 | 276 | 278449171 | n | n | У | У | n | o50 | life | I | S | T | Р |
| 277 | 277 | 279379854 | n | n | n | У | n | o35 | life | E | N | F | J |
| 278 | 278 | 278817309 | n | n | n | n | n | o50 | life | I | S | F | J |
| 279 | 279 | 278846794 | n | n | n | n | n | o50 | life | E | S | T | J |
| 280 | 280 | 279451008 | n | n | n | n | У | o35 | life | I | S | F | J |
| 281 | 281 | 279647870 | n | n | У | У | n | o35 | life | E | N | F | J |
| 282 | 282 | 279579929 | n | n | У | У | n | o50 | life | I | S | T | J |
| 283 | 283 | 280204491 | n | n | n | У | n | o35 | life | E | S | T | J |
| 284 | 284 | 281600590 | n | n | n | У | n | o35 | norete | E | S | F | J |
| 285 | 285 | 282334643 | n | n | У | У | n | o35 | life | I | N | T | Р |
| 286 | 286 | 284098805 | n | n | n | n | n | o50 | norete | E | S | T | Р |
| 287 | 287 | 284618487 | n | n | n | У | n | o25 | life | I | S | T | J |
| 288 | 288 | 285266961 | n | n | n | n | n | o35 | norete | E | N | F | Р |
| 289 | 289 | 285637873 | n | n | n | У | n | o50 | life | I | S | Т | J |
| 290 | 290 | 286155655 | n | n | n | У | n | o50 | life | E | N | Т | Р |
| 291 | 291 | 286215565 | n | У | У | У | n | o50 | norete | E | N | Т | J |
| 292 | 292 | 286355068 | n | n | n | n | n | o50 | life | I | S | Т | Р |
| 293 | 293 | 286370742 | n | n | У | У | n | o50 | life | E | N | Т | Р |
| 294 | 294 | 286879233 | n | n | У | n | n | o50 | life | E | N | F | Р |
| 295 | 295 | 286899392 | n | У | n | n | У | o50 | life | I | S | Т | J |
| 296 | 296 | 287063131 | n | n | n | n | n | o50 | life | E | S | Т | Р |
| 297 | 297 | 287274032 | n | n | У | У | n | o50 | life | E | S | F | P |
| 298 | 298 | 287714083 | n | У | n | n | n | o35 | life | E | S | T | J |
| 299 | 299 | 287823131 | n | n | n | У | n | o50 | life | I | S | F | J |
| 300 | 300 | 288542446 | n | У | n | У | n | o35 | life | I | S | F | Р |
| 301 | 301 | 287936628 | n | n | n | n | n | o35 | life | E | N | F | Р |
| 302 | 302 | 288382433 | n | n | n | У | У | o50 | life | I | S | Т | J |
| 303 | 303 | 289048262 | n | У | n | У | n | o25 | life | E | S | Т | J |
| 304 | 304 | 288922830 | n | У | n | n | У | o25 | life | I | S | F | J |
| 305 | 305 | 288927811 | n | n | n | У | У | o50 | life | I | N | F | J |
| 306 | 306 | 289271662 | У | n | n | У | n | o35 | life | I | N | F | J |
| 307 | 307 | 289490943 | n | n | n | У | n | o35 | life | E | N | F | J |
| 308 | 308 | 289477416 | n | n | n | У | n | o50 | life | E | S | F | J |
| 309 | 309 | 288768053 | n | n | У | У | n | o50 | life | I | S | T | J |
| 310 | 310 | 289465702 | n | n | n | У | n | o50 | life | E | S | F | J |
| 311 | 311 | 291045313 | n | n | n | n | n | o35 | life | E | N | F | J |
| 312 | 312 | 294348569 | n | n | n | У | n | o35 | life | Е | N | F | Р |
| 313 | 313 | 294989566 | n | n | n | У | У | o50 | life | I | S | F | Р |
| 314 | 314 | 294673008 | n | У | n | n | n | o35 | life | l l | S | F | J |
| 315 | 315 | 282497032 | n | n | У | У | n | o50 | norete | Ī | N | F | Р |
| 316 | 316 | 295337381 | n | n | У | У | n | 035 | life | I | S | T | Р |
| 317 | 317 | 295429151 | n | n | У | У | n | o50 | life | E | N | F | Р |
| 318 | 318 | 296034138 | n | у | n | n | n | o35 | life | E | S | F | Р |

| | | | | | | | | | | Su | rvey | | | | | | | | |
|------------|------------|--------|--------|--------|--------|--------|--------|--------|-----------|----|------|--------|--------|--------|--------|--------|----|----------|----|
| # | ori # | F1 | F2 | F3 | F4 | F5 | F6 | 11 | 12 | 13 | 14 | 15 | 16 | P1 | P2 | Р3 | P4 | P5 | P6 |
| " | 011# | | 12 | 13 | ' - | 13 | 10 | | 12 | 13 | '- | 13 | | F 1 | F 2 | " | 7 | 73 | |
| 266 | 266 | 1 | 1 | 2 | 1 | 3 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 3 | 2 |
| 267 | 267 | 1 | 5 | 2 | 3 | 2 | 2 | 2 | 1 | 3 | 1 | 3 | 1 | 2 | 1 | 2 | 3 | 3 | 4 |
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| 320 | 320 | 299337303 | n | n | n | У | n | o35 | life | E | S | Т | J |
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| 320 320 320 1 | # | ori # | F1 | F2 | F3 | F4 | F5 | F6 | 11 | 12 | 13 | 14 | 15 | 16 | P1 | P2 | Р3 | P4 | P5 | P6 |
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| 338 338 1 3 3 1 5 3 1 3 1 1 3 3 1 1 3 3 1 1 3 3 1 1 2 2 4 1 1 4 3 1 1 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 3 4 3 3 <td></td> <td>_</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> | | | | | | | | | | | | | | | _ | - | | | | |
| 339 339 2 3 1 2 2 1 2 4 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 5 2 2 4 5 5 5 5 5 1 2 2 4 4 1 1 2 2 1 1 2 2 1 1 1 1 1 2 2 1 1 3 3 1 1 1 1 1 1 1 1 1 4 4 3 <td></td> | | | | | | | | | | | | | | | | | | | | |
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| | | | | | demo | ographics | S | | | | Meyer | s-Briggs | |
|-----|-------|-----------|---------------|-------------------------|--------|-----------|----------|-----|-------------|-----------------------------|---------------------------|----------------------|------------------------|
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| 411 | 411 | 463308087 | n | n | y n | У | n | 035 | life | <u> </u> | S | T | J |
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| 424 | 424 | 529820602 | n | У | У | n | n | o35 | life | <u> </u> | S | F | Р |

| | | | | | | | | <u>=</u> | | Su | rvey | | | | | | | | |
|------------|------------|--------|--------|--------|----|--------|--------|----------|----|----|--------|----|----|----|-----|----|----|--------|----|
| -# | ori # | E1 | F2 | F3 | F4 | EE | F6 | 11 | 12 | 12 | 14 | 15 | 14 | P1 | P2 | Р3 | P4 | P5 | P6 |
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| 408 | 408 | 2 | 5 | 1 | 1 | 1 | 4 | 3 | 3 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 |
| 409 | 409 | 5 | 5 | 4 | 2 | 5 | 5 | 4 | 1 | 3 | 3 | 4 | 3 | 4 | 4 | 5 | 2 | 5 | 5 |
| 410 | 410 | 1 | 4 | 2 | 1 | 2 | 4 | 1 | 3 | 1 | 1 | 1 | 1 | 2 | 1 | 3 | 2 | 3 | 3 |
| 411 | 411 412 | 2 | 2 | 5 4 | 4 | 2 | 5 1 | 3 2 | 3 | 1 | 2 | 3 | 3 | 2 | 1 2 | 3 | 2 | 3 | 2 |
| 412 | 412 | 3 | 3 | 1 | 3 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 4 | 4 |
| 414 | 414 | 2 | 4 | 1 | 2 | 2 | 4 | 3 | 3 | 3 | 3 | 5 | 5 | 2 | 2 | 5 | 1 | 4 | 2 |
| 415 | 415 | 2 | 4 | 5 | 2 | 5 | 5 | 3 | 3 | 1 | 1 | 3 | 3 | 2 | 1 | 1 | 5 | 4 | 4 |
| 416 | 416 | 4 | 1 | 3 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 4 | 2 |
| 417 | 417 | 4 | 4 | 2 | 2 | 5 | 5 | 3 | 1 | 1 | 1 | 4 | 1 | 4 | 2 | 1 | 2 | 1 | 2 |
| 418 | 418 | 1 | 5 | 3 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 3 | 4 | 2 | 1 |
| 419 | 419 | 3 | 3 | 1 | 3 | 2 | 3 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 3 | 3 | 2 | 2 | 2 |
| 420 | 420 | 2 | 3 | 1 | 3 | 3 | 2 | 3 | 3 | 1 | 1 | 3 | 3 | 3 | 1 | 2 | 1 | 3 | 2 |
| 421 | 421 | 2 | 2 | 3 | 2 | 2 | 5 | 4 | 1 | 1 | 3 | 4 | 3 | 3 | 2 | 1 | 2 | 4 | 2 |
| 422 | 422 | 1 | 3 | 5 | 1 | 2 | 1 | 3 | 1 | 1 | 1 | 3 | 3 | 1 | 1 | 2 | 2 | 1 | 4 |
| 423 | 423 | 2 | 2 | 3 | 1 | 2 | 3 | 2 | 1 | 1 | 1 | 3 | 1 | 1 | 2 | 4 | 2 | 2 | 2 |
| 424 | 424 | 2 | 5 | 5 | 1 | 4 | 2 | 1 | 4 | 3 | 1 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2 |
| | | • | • | • | | • | | - | | | | | | | • | | | | |

SURVEY DATA

| | | | | | demo | ographics | S | | | | Meyer | s-Briggs | |
|-----|-------|-----------|---------------|-------------------------|------|-----------|----------|-------|-------------|-----------------------------------|---------------------------|----------------------|------------------------|
| # | ori # | user ID | Design pro | Constru ction pro | Male | College | Shy | Age | Live USA | Extraver sion/Intr aversion | Sensing /Intuiti on | Thinking /Feeling | Judging/ Perceiving |
| 425 | 425 | 531164813 | n | n | n | У | n | o50 | life | I | N | F | J |
| 426 | 426 | 535392245 | n | n | n | n | n | o50 | life | I | S | F | J |
| 427 | 427 | 538652039 | n | n | У | n | У | o50 | life | I | S | Т | Р |
| 428 | 428 | 544889598 | n | n | n | У | n | o35 | life | E | S | F | Р |
| 429 | 429 | 545762800 | n | n | n | n | У | o50 | life | I | S | F | Р |
| 430 | 430 | 548026968 | n | У | n | У | n | o35 | life | E | S | Т | Р |
| 431 | 431 | 552738034 | n | n | У | У | У | o50 | norete | I | S | F | Р |
| 432 | 432 | 552898573 | n | n | n | n | n | u25 | life | I | S | F | Р |
| 433 | 433 | 555054974 | n | n | n | У | n | o50 | life | E | S | F | Р |
| 434 | 434 | 566832051 | У | n | У | У | n | o50 | life | E | N | Т | Р |
| 435 | 435 | 573254979 | n | n | n | У | У | o50 | norete | E | N | F | Р |
| 436 | 436 | 590903075 | n | n | n | У | n | o50 | life | E | S | F | Р |
| 437 | 437 | 622497781 | n | У | У | n | n | o35 | life | I | N | Т | J |
| 438 | 438 | 626885167 | n | n | У | У | У | o50 | life | I | N | Т | Р |
| 439 | 439 | 628185069 | n | n | n | n | У | o50 | life | I | S | F | J |
| 440 | 440 | 629001033 | n | n | n | У | n | o35 | life | E | N | Т | J |
| 441 | 441 | 653769318 | n | n | n | У | n | o35 | life | I | S | F | J |
| 442 | 442 | 691268426 | У | У | n | У | У | o35 | life | I | S | F | J |
| | · | .,, | 26 | 76 | 144 | 309 | 114 | Count | Е | 190 | | | 269 |
| | | У | 6% | 17% | 33% | 70% | 26% | % | | 43% | | J | 61% |
| | | n | 416 | 366 | 298 | 133 | 328 | Count | | 252 | | Р | 173 |
| | | n | 94% | 83% | 67% | 30% | 74% | % | ' | 57% | | ٢ | 39% |

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| o25 | 61 | 14% |
| o35 | 158 | 36% |
| o50 | 207 | 47% |
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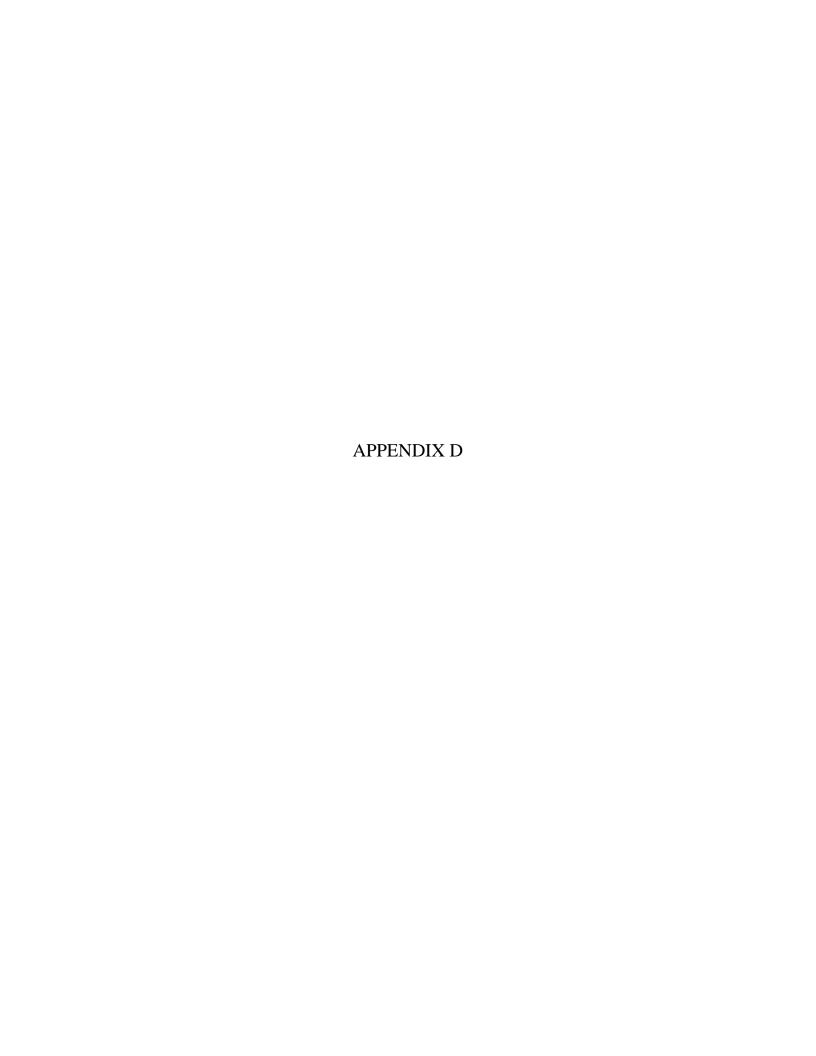
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70% 132

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Confidential APPENDIX C Page 17

| | | | | | | | | | | | | | 3011 | | | | | | |
|-----|------------|------------|------------|---------------|-----------|-----------|------------|------------|------------|-----------|-----------|---------------|------------|-----------|-----------|-----------|-----------|-----------|---------------|
| | | | | | | | | _ | | Su | rvey | | | _ | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| # | : 4 | | F2 | F-2 | -4 | FF | F. | | | | 1.4 | | 17 | P1 | P2 | D2 | P4 | P5 | P6 |
| # | ori # | F1 | FZ | F3 | F4 | F5 | F6 | 11 | 12 | 13 | 14 | 15 | 16 | М | PZ | Р3 | P4 | Po | Рб |
| | | | | | | | | | | | | | | | | | | | |
| 425 | 425 | 2 | 5 | 2 | 1 | 5 | 4 | 1 | 1 | 3 | 1 | 1 | 1 | 2 | 2 | 3 | 1 | 3 | 3 |
| 426 | 426 | 4 | 4 | 4 | 1 | 5 | 5 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 4 | 2 | 2 | 2 |
| 427 | 427 | 3 | 2 | 1 | 2 | 5 | 2 | 4 | 2 | 2 | 4 | 2 | 2 | 2 | 1 | 4 | 2 | 4 | 1 |
| 428 | 428 | 1 | 3 | 4 | 1 | 3 | 5 | 3 | 1 | 1 | 1 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 2 |
| 429 | 429 | 3 | 4 | 2 | 3 | 2 | 3 | 1 | 3 | 2 | 1 | 2 | 3 | 2 | 1 | 2 | 3 | 2 | 3 |
| 430 | 430 | 3 | 5 | 5 | 1 | 5 | 5 | 5 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 3 |
| 431 | 431 | 2 4 | 4 5 | <u>2</u> 1 | 1 | 3 | 2 1 | 1 | 3 1 | 1 | 1 | <u>2</u> 1 | <u>2</u> | 2 | 1 | 1 | 2 | 2 4 | <u>2</u> 5 |
| 432 | 432 433 | 2 | 3 | 2 | 4 | 4 | 4 | 3 | 3 | 2 | 1 | 3 | 3 | 4 | 2 | 4 1 | 2 | 4 | 2 |
| 434 | 434 | 4 | 4 | 3 | 2 | 4 | 4 | 1 | 1 | 2 | 1 | 4 | 4 | 2 | 1 | 1 | 1 | 2 | 4 |
| 435 | 435 | 3 | 5 | 4 | 4 | 5 | 5 | 4 | 1 | 1 | 2 | 4 | 4 | 5 | 4 | 4 | 1 | 4 | 4 |
| 436 | 436 | 5 | 5 | 4 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 3 | 1 | 2 | 2 | 1 | 2 | 5 | 2 |
| 437 | 437 | 1 | 2 | 1 | 3 | 2 | 3 | 3 | 2 | 3 | 1 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 4 |
| 438 | 438 | 3 | 4 | 4 | 1 | 3 | 4 | 2 | 2 | 3 | 3 | 4 | 1 | 4 | 2 | 4 | 2 | 4 | 4 |
| 439 | 439 | 4 | 4 | 4 | 1 | 4 | 4 | 3 | 3 | 1 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 |
| 440 | 440 | 1 | 1 | 3 | 4 | 4 | 5 | 5 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 2 |
| 441 | 441 | 2 | 3 | 1 | 2 | 4 | 3 | 3 | 3 | 1 | 1 | 2 | 1 | 3 | 1 | 3 | 1 | 3 | 3 |
| 442 | 442 | 4 | 5 | 4 | 2 | 4 | 5 | 3 | 1 | 1 | 3 | 3 | 3 | 2 | 2 | 4 | 4 | 4 | 1 |
| | | 118 | 36 | 94 | 189 | 61 | 36 | 91 | 196 | 286 | 300 | 105 | 161 | 145 | 155 | 83 | 107 | 91 | 80 |
| | | 27% | 8% | 21% | 43% | 14% | 8% | 21% | 44% | 65% | 68% | 24% | 36% | 33% | 35% | 19% | 24% | 21% | 18% |
| | | 158 | 70 | 110 | 120 | 140 | 92 | 93 | 96 | 63 | 57 | 107 | 94 | 154 | 134 | 107 | 163 | 114 | 154 |
| | | 36% | 16% | 25% | 27% | 32% | 21% | 21% | 22% | 14% | 13% | 24% | 21% | 35% | 30% | 24% | 37% | 26% | 35% |
| | | 36 8% | 91 21% | 61 14% | 49 11% | 81 18% | 61 14% | 125 28% | 102 23% | 79 18% | 63 14% | 130 29% | 130 29% | 53 12% | 55 12% | 73 17% | 93 21% | 60 14% | 71 16% |
| | | | | | | | | | | | | | | | | | | | |
| | | 68 | 92 | 105 | 47 | 86 | 95 | 103 | 36 | 13 | 19 4% | 83 | 42 | 78 | 80 | 148 | 70 | 131 | 104 |
| | | 15% 62 | 21% 153 | 24% 72 | 11% 37 | 19% 74 | 21% 158 | 30 | 8% 12 | 3% 1 | 3 | 19% 17 | 10% 15 | 18% 12 | 18% 18 | 33% | 16% 9 | 30% 46 | 24% 33 |
| | | | | | | | | | | | | | | | | | | | |
| | | 14% 442 | 35% | 16% | 8% | 17% | 36% | 7% | 3% | 0% | 1% | 4% | 3% | 3% | 4% | 7% | 2% | 10% | 7% |
| | | 2.54 | 3.58 | 2.89 | 2.15 | 2.94 | 3.56 | 2.75 | 2.03 | 1.60 | 1.57 | 2.55 | 2.22 | 2.23 | 2.26 | 2.86 | 2.35 | 2.83 | 2.67 |
| | | 1.39 | 1.32 | 1.41 | 1.30 | 1.32 | 1.37 | 1.22 | 1.12 | 0.90 | 0.93 | 1.15 | | 1.16 | 1.23 | 1.26 | 1.07 | 1.33 | 1.23 |
| | | | 0.123 | | | | | | | | | | | | | | | 0.124 | |
| | | | 100% | | | | | | | 100% | | | | | | | | 100% | |
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| F | AÇAE | E PR | EFER | ENCE | S | |
|---------|------|------|------|------|------|------|
| | F1 | F2 | F3 | F4 | F5 | F6 |
| GENERAL | 2.54 | 3.58 | 2.89 | 2.15 | 2.94 | 3.56 |
| INFJ | 2.31 | 3.14 | 2.72 | 2.16 | 2.67 | 3.13 |
| ESFJ | 2.41 | 3.81 | 2.96 | 1.93 | 3.15 | 3.93 |
| ESTP | 2.76 | 4.12 | 3.00 | 2.18 | 3.47 | 4.18 |
| ISTJ | 2.34 | 3.27 | 2.75 | 1.95 | 2.79 | 3.29 |
| ENFP | 2.97 | 3.97 | 3.06 | 2.42 | 3.10 | 3.68 |
| ESFP | 2.69 | 4.27 | 3.19 | 1.81 | 2.69 | 3.77 |
| INTJ | 2.20 | 3.20 | 2.70 | 2.10 | 2.90 | 3.20 |
| INFP | 2.90 | 3.62 | 2.43 | 2.19 | 3.33 | 3.48 |
| INTP | 2.69 | 4.00 | 2.62 | 3.15 | 2.62 | 2.92 |
| ENFJ | 2.75 | 3.56 | 3.00 | 1.44 | 3.25 | 3.81 |
| ESTJ | 2.52 | 3.29 | 3.15 | 2.33 | 2.83 | 3.63 |
| ISFJ | 2.56 | 3.61 | 2.88 | 1.91 | 3.11 | 3.92 |
| ISTP | 2.48 | 3.72 | 2.80 | 2.76 | 2.80 | 3.84 |
| ISFP | 2.54 | 3.69 | 3.04 | 1.96 | 2.92 | 3.23 |
| ENTJ | 2.27 | 2.82 | 3.27 | 2.36 | 3.09 | 3.09 |
| ENTP | 2.36 | 3.00 | 2.36 | 3.07 | 2.64 | 2.64 |

| | FAÇA | DE PR | REFER | ENCE: | S | | |
|----------------|------|-------|-------|-------|------|------|------|
| | F1 | F2 | F3 | F4 | F5 | F6 | AVG |
| GENERAL | 2.54 | 3.58 | 2.89 | 2.15 | 2.94 | 3.56 | 2.94 |
| INT | 2.48 | 3.65 | 2.65 | 2.70 | 2.74 | 3.04 | 2.88 |
| ESP | 2.72 | 4.21 | 3.12 | 1.95 | 3.00 | 3.93 | 3.16 |
| ESJ | 2.48 | 3.48 | 3.08 | 2.19 | 2.95 | 3.73 | 2.98 |
| ISJ | 2.44 | 3.43 | 2.81 | 1.93 | 2.94 | 3.57 | 2.85 |
| ISP | 2.51 | 3.71 | 2.92 | 2.35 | 2.86 | 3.53 | 2.98 |
| ENF | 2.89 | 3.83 | 3.04 | 2.09 | 3.15 | 3.72 | 3.12 |
| INF | 2.65 | 3.54 | 2.54 | 2.16 | 2.86 | 3.35 | 2.85 |
| ENT | 2.32 | 2.92 | 2.76 | 2.76 | 2.84 | 2.84 | 2.74 |

BELOW AVG ABOVE AVG

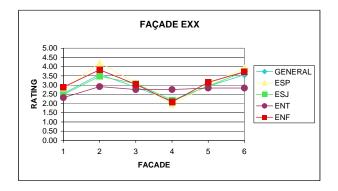
| IN. | ITERI | OR PI | REFE | RENC | ES | |
|---------|-------|-------|------|------|------|------|
| | 11 | 12 | 13 | 14 | 15 | 16 |
| GENERAL | 2.75 | 2.03 | 1.60 | 1.57 | 2.55 | 2.22 |
| INFJ | 2.56 | 1.99 | 1.79 | 1.74 | 2.41 | 2.23 |
| ESFJ | 2.78 | 2.04 | 1.89 | 1.67 | 2.41 | 2.04 |
| ESTP | 2.82 | 2.00 | 1.65 | 1.47 | 2.59 | 2.47 |
| ISTJ | 2.84 | 2.17 | 1.62 | 1.55 | 2.66 | 2.19 |
| ENFP | 2.81 | 1.74 | 1.68 | 2.00 | 2.87 | 2.74 |
| ESFP | 2.81 | 2.15 | 1.58 | 1.77 | 2.77 | 2.65 |
| INTJ | 2.80 | 2.10 | 1.50 | 1.50 | 2.50 | 2.40 |
| INFP | 2.62 | 2.33 | 1.57 | 1.62 | 2.62 | 2.00 |
| INTP | 2.62 | 1.85 | 1.46 | 2.15 | 3.23 | 2.15 |
| ENFJ | 3.06 | 2.06 | 1.94 | 1.50 | 2.38 | 1.88 |
| ESTJ | 2.73 | 1.98 | 1.40 | 1.35 | 2.54 | 2.15 |
| ISFJ | 2.48 | 1.92 | 1.47 | 1.39 | 2.17 | 2.02 |
| ISTP | 2.92 | 2.24 | 2.00 | 1.92 | 2.48 | 2.44 |
| ISFP | 2.58 | 2.31 | 1.23 | 1.42 | 2.73 | 2.00 |
| ENTJ | 2.91 | 1.64 | 1.45 | 1.45 | 3.09 | 2.55 |
| ENTP | 2.71 | 1.86 | 1.79 | 1.43 | 2.57 | 2.14 |

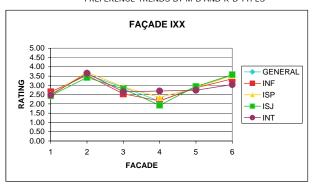
| | INTER | IOR P | REFE | RENCE | S | | |
|---------|-------|-------|------|-------|------|------|------|
| | 11 | 12 | 13 | 14 | 15 | 16 | AVG |
| GENERAL | 2.75 | 2.03 | 1.60 | 1.57 | 2.55 | 2.22 | 2.12 |
| INT | 2.70 | 1.96 | 1.48 | 1.87 | 2.91 | 2.26 | 2.20 |
| ESP | 2.81 | 2.09 | 1.60 | 1.65 | 2.70 | 2.58 | 2.24 |
| ESJ | 2.75 | 2.00 | 1.57 | 1.47 | 2.49 | 2.11 | 2.06 |
| ISJ | 2.68 | 2.06 | 1.55 | 1.48 | 2.44 | 2.11 | 2.05 |
| ISP | 2.86 | 2.27 | 1.61 | 1.65 | 2.61 | 2.31 | 2.22 |
| ENF | 2.89 | 1.85 | 1.77 | 1.83 | 2.70 | 2.45 | 2.25 |
| INF | 2.57 | 2.05 | 1.62 | 1.51 | 2.22 | 1.95 | 1.99 |
| ENT | 2.80 | 1.76 | 1.64 | 1.44 | 2.80 | 2.32 | 2.13 |

BELOW AVG ABOVE AVG

ESP'S CONSISTENTLY ABOVE AVG
ISJ'S CONSISTENTLY BELOW AVG

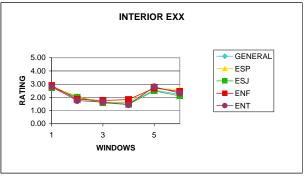
PREFERENCE TRENDS BY M-B AND K-B TYPES

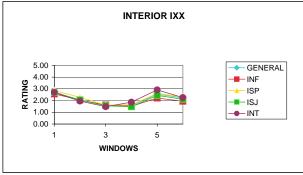




MOST VARIANCE ON MOST PREFERRED

INT'S, ENT'S FLAT ON FACADES - VERY LITTLE PREFERENCE

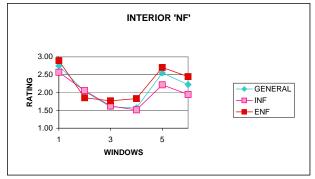




INT'S, ENT'S AGAIN VERY SIMILAR IN PREFERENCE

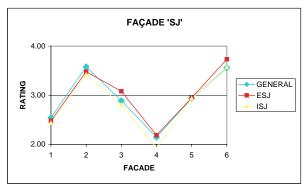
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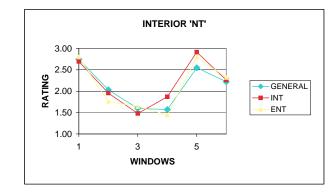
ENF'S ABOVE AVERAGE WHILE INF'S BELOW



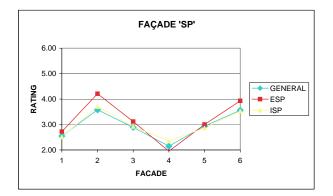
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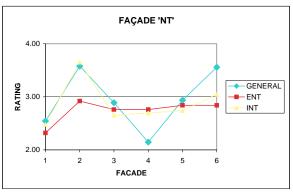
PREFERENCE TRENDS BY M-B AND K-B TYPES

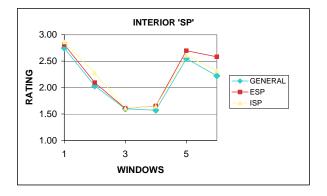


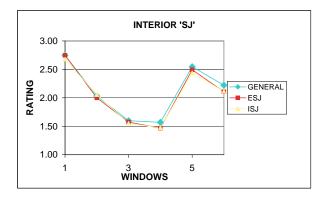


PREFERENCE TRENDS BY M-B AND K-B TYPES







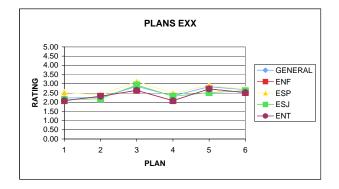


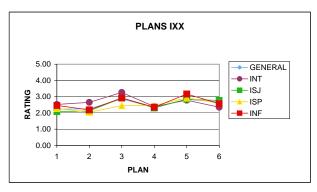
| | PLAN | I PRE | FERE | NCES | | |
|---------|------|-------|------|------|------|------|
| | P1 | P2 | P3 | P4 | P5 | P6 |
| GENERAL | 2.23 | 2.26 | 2.86 | 2.35 | 2.83 | 2.67 |
| INFJ | 2.21 | 2.28 | 2.62 | 2.26 | 2.56 | 2.50 |
| ESFJ | 2.04 | 2.48 | 3.00 | 2.74 | 2.44 | 2.93 |
| ESTP | 2.59 | 1.94 | 3.47 | 2.00 | 2.65 | 2.82 |
| ISTJ | 1.94 | 1.95 | 2.84 | 2.16 | 2.61 | 2.66 |
| ENFP | 2.26 | 2.55 | 2.65 | 2.45 | 3.23 | 2.90 |
| ESFP | 2.50 | 2.69 | 2.88 | 2.81 | 3.08 | 2.62 |
| INTJ | 2.70 | 2.60 | 3.00 | 3.00 | 2.10 | 2.70 |
| INFP | 2.43 | 2.29 | 2.95 | 2.43 | 3.14 | 2.52 |
| INTP | 2.38 | 2.69 | 3.46 | 1.92 | 3.31 | 2.08 |
| ENFJ | 2.19 | 3.06 | 2.63 | 2.25 | 2.44 | 2.81 |
| ESTJ | 2.19 | 2.02 | 2.90 | 2.08 | 2.56 | 2.44 |
| ISFJ | 2.25 | 2.33 | 3.00 | 2.48 | 3.14 | 2.89 |
| ISTP | 2.56 | 2.16 | 2.60 | 2.48 | 3.08 | 2.68 |
| ISFP | 2.00 | 1.92 | 2.31 | 2.42 | 2.77 | 2.54 |
| ENTJ | 2.00 | 2.18 | 2.91 | 2.27 | 3.09 | 2.27 |
| ENTP | 2.14 | 2.43 | 2.43 | 1.93 | 2.43 | 2.71 |

| | PLA | N PRE | FERE | NCES | | | |
|---------|------|-------|------|------|------|------|------|
| | P1 | P2 | P3 | P4 | P5 | P6 | AVG |
| GENERAL | 2.23 | 2.26 | 2.86 | 2.35 | 2.83 | 2.67 | 2.53 |
| INT | 2.52 | 2.65 | 3.26 | 2.39 | 2.78 | 2.35 | 2.66 |
| ESP | 2.53 | 2.40 | 3.12 | 2.49 | 2.91 | 2.70 | 2.69 |
| ESJ | 2.13 | 2.19 | 2.93 | 2.32 | 2.52 | 2.61 | 2.45 |
| ISJ | 2.08 | 2.12 | 2.91 | 2.30 | 2.85 | 2.77 | 2.51 |
| ISP | 2.27 | 2.04 | 2.45 | 2.45 | 2.92 | 2.61 | 2.46 |
| ENF | 2.08 | 2.32 | 2.64 | 2.08 | 2.72 | 2.52 | 2.39 |
| INF | 2.46 | 2.19 | 2.92 | 2.35 | 3.16 | 2.57 | 2.61 |
| ENT | 2.08 | 2.32 | 2.64 | 2.08 | 2.72 | 2.52 | 2.39 |

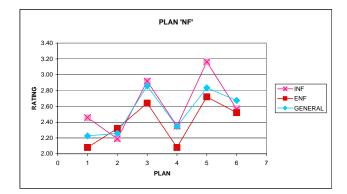
BELOW AVG ABOVE AVG

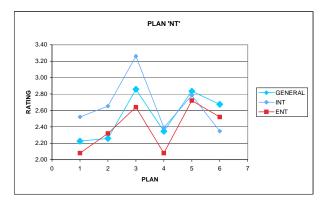
FROM GRAPH INT'S ENT'S SWITCH ESP'S ISP'S SWITCH



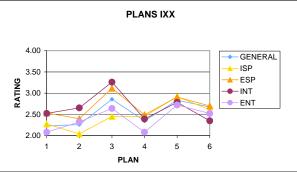


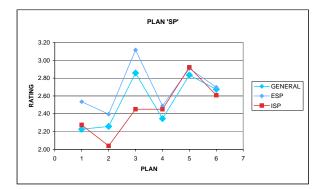
MOST VARIANCE ON MOST PREFERRED

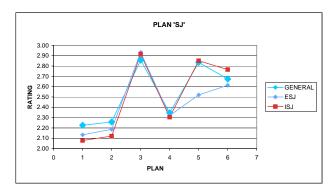




I'S LOWER THAN AVERAGE E'S HIGHER INT'S ENT'S STRADDLE THE LINE ISP'S, ESP'S STRADDLE THE LINE







OVERALL PREFERENCE TENDANCY

| | _ | _ | | AVERAGE | SURVEY |
|---------|-----|-----|-----|-----------|---------|
| | F | l | Р | DEVIATION | % TOTAL |
| GENERAL | 2 | 1 | 3 | 0 | |
| INFJ | 2&6 | 1 | 3 | MAYBE 1 | 4 |
| ESFJ | 6 | 1 | 3 | 1 | 6 |
| ESTP | 6 | 1 | 3 | 1 | 4 |
| ISTJ | 6 | 1 | 3 | 1 | 17 |
| ESFP | 2 | 1 | 5 | 1 | 6 |
| INTP | 2 | 5 | 3 | 1 | 3 |
| INFP | 2 | 1&5 | 3 | 1 | 5 |
| INTJ | 2&6 | 1 | 3&4 | 1 OR 2 | 2 |
| ENFJ | 2&6 | 1 | 2 | 1 OR 2 | 4 |
| ENFP | 2 | 5 | 5 | 2 | 7 |
| ESTJ | 6 | 1 | 5 | 2 | 11 |
| ISFJ | 6 | 1 | 5 | 2 | 14 |
| ISTP | 6 | 1 | 5 | 2 | 6 |
| ISFP | 2 | 5 | 5 | 2 | 6 |
| ENTP | 4 | 1 | 6 | 2 | 3 |
| ENTJ | 3 | 5 | 5 | 3 | 2 |

| | F | I | Р | AVERAGE DEVIATION | % TOTAL SAMPLE |
|---------|---|---|---|----------------------|-------------------|
| GENERAL | 2 | 1 | 3 | 0 | 100 |
| ESP | 2 | 1 | 3 | 0 | 10 |
| INT | 2 | 5 | 3 | 1 | 5 |
| ESJ | 6 | 1 | 3 | 1 | 17 |
| ISJ | 6 | 1 | 3 | 1 | 32 |
| ISP | 2 | 1 | 4 | 1 | 12 |
| ENF | 2 | 1 | 5 | 1 | 11 |
| INF | 2 | 1 | 4 | 1 | 6 |
| ENT | 2 | 5 | 5 | 2 | 6 |

| | | | | demo | graphics | | | | | Meyers-l | Briggs | 1 |
|--------------------------|--------|----------------------|-------------------------------|-----------------------|---------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------|-----------------------------------|------------------------------------|-----------------------|----------------------------|
| | | Design pro | | Male | College | Shy | Age | Live USA | Extraversion /Intraversio n | Sensing /Intuiti on | Thinking /Feeling | Judging/ Perceivin g |
| Count % | у | 1 6% | 4 25% | 3 19% | 12 75% | 2 13% | • | E | 16 100% | | J | 16 100% |
| Count % | n | 15 94% | 12 75% | 13 81% | 4 25% | 14 88% | | I | 0 | | Р | 0 0% |
| ENFJ | | 100% | 100% | 100% | u25 o25 o35 o50 never five ten moreten life | 100% 0 1 11 4 16 0 0 0 2 14 | 0% 6% 69% 25% 100% 0% 0% 13% 88% | | 100% S N | 0 0% 16 100% 100% T | 0 0% 16 100% | 100% |
| Count % Count % | y n | 2 6% 29 94% | 3 10% 28 90% 100% | 6 19% 25 81% | 21 68% 10 32% | 2 6% 29 94% | | E | 31 100% 0 0% 100% | | J P | 0 0% 31 100% |
| ENFP | | | | | u25 o25 o35 o50 never five ten moreten life | 0 4 13 14 31 0 0 1 2 28 31 | 0% 13% 42% 45% 100% 0% 0% 3% 6% 90% | | S N | 0 0% 31 100% 100% T | 0 0% 31 100% | |

| | Survey Results | | | | | | | | | | | | | | | | |
|-------------------|----------------|----------|----------|-----------------------|----------|----------|-----------|-----------|-----------|---------------|----------|----------|----------|---------------|---------------|---------------|----------------------|
| Rating | F1 | F2 | F3 | F4 | F5 | F6 | l1 | 12 | 13 | 14 | 15 | 16 | P1 | P2 | P3 | P4 | P5 |
| 1 | 5 31% | 2 | 4 25% | 13 81% | 4 25% | 0 | 2 | 8 50% | 8 50% | 12 75% | 5 31% | 7 | 4 25% | 2 | 4 25% | 5 31% | 3 19% |
| 2 | 3 19% | 1 6% | 3 19% | 1 6% | 1 6% | 3 19% | 4 25% | 2 | 2 13% | 1 6% | 4 25% | 6 38% | 9 56% | 5 31% | 3 19% | 4 25% | 7 |
| 3 | 1 6% | 5 31% | 2 13% | 0 | 2 13% | 2 | 3 19% | 3 19% | 5 31% | 2 13% | 3 19% | 1 6% | 0 | 2 | 5 31% | 5 31% | 2 139 |
| 4 | 5 31% | 2 | 3 19% | 2 | 5 31% | 6 38% | 5 31% | 3 19% | 1 6% | 1 6% | 4 25% | 2 | 2 | 4 25% | 3 19% | 2 | 4 25% |
| 5 | 2 13% | 6 38% | 4 25% | 0 0% | 4 25% | 5 31% | 2 13% | 0 0% | 0 | 0 0% | 0 0% | 0 | 1 6% | 3 19% | 1 6% | 0 | 0 |
| | 16 | | | | | | | | SAME | | | | | | | | |
| Average | 2.75 | 3.56 | 3.00 | 1.44 | 3.25 | 3.81 | 3.06 | 2.06 | 1.94 | 1.50 | 2.38 | 1.88 | 2.19 | 3.06 | 2.63 | 2.25 | 2.4 |
| Std Dev 95% CI | 1.53 | 1.41 | 1.59 | 1.03 0.505 | 1.57 | 1.11 | 1.29 | 1.24 | 1.06 | 0.97 | 1.20 | 1.02 | 1.17 | 1.39 | 1.26 0.617 | 1.06 | 1.0 0.53 |
| ı | | l o | I , | l o | l o | l o | , | ا ما | l 00 | l ae | l , | l -, | | l o | l -, | l o | l o I |
| 1 | 6 19% | 2 6% | 6 19% | 9 29% | 2 6% | 3 | 6 19% | 16 52% | 20 65% | 15 48% | 4 13% | 7 23% | 8 26% | 8 26% | 7 23% | 8 26% | 3 10 ⁹ |
| 2 | 9 | 4 | 8 | 12 | 12 | 5 | 7 | 9 | 2 | 4 | 8 | 3 | 13 | 10 | 8 | 10 | 6 |
| | 29% | 13% | 26% | 39% | 39% | 16% | 23% | 29% | 6% | 13% | 26% | 10% | 42% | 32% | 26% | 32% | 199 |
| 3 | 3 | 3 | 2 | 3 | 5 | 4 | 6 | 4 | 8 | 9 | 10 | 14 | 6 | 4 | 5 | 4 | 8 |
| | 10% | 10% | 6% 8 | 10% | 16% 5 | 13% | 19% 11 | 13% | 26% | 29% 3 | 32% 6 | 45% 5 | 19% 2 | 13% | 16% 11 | 13% | 269 9 |
| 4 | 19% | 19% | 26% | 6% | 16% | 19% | 35% | 6% | 3% | 10% | 19% | 16% | 6% | 19% | 35% | 29% | 29° |
| 5 | 7 | 16 | 7 | 5 | 7 | 13 | 1 | 0 | 0 | 0 | 3 | 2 | 2 | 3 | 0 | 0 | 5 |
| 5 | 23% | 52% | 23% | 16% | 23% | 42% | 3% | 0% | 0% | 0% | 10% | 6% | 6% | 10% | 0% | 0% | 16°, |
| _ | 31 | | | | | | | | DIFFERE | | | 1 | | | | | |
| Average | 2.97 | 3.97 | 3.06 | 2.42 | 3.10 | 3.68 | 2.81 | 1.74 | 1.68 | 2.00 | 2.87 | 2.74 | 2.26 | 2.55 | 2.65 | 2.45 | 3.2 |
| Std Dev | 1.49 | 1.33 | 1.50 | 1.41 | 1.33 | 1.42 | 1.22 | 0.93 | 0.98 | 1.10 | 1.18 | 1.18 | 1.12 | 1.34 | 1.20 | 1.18 | 1.2 |
| 95% CI | | | - | 0. 496 100% | - | | 0.43 | - | | 0.386 100% | - | | | 0.471 100% | 100% | 0.415 100% | 100 100 |
| | I | | | | | | ı | | | | | | | | | | |

| | | | | demo | graphics | | | | | Meyers- | Briggs | |
|----------------------------------|--------|-------------------------------|------------------------------|------------------------------|-----------------------------------------------------------|----------------------------------------------|--------------------------------------|-------------|------------------------------------|-----------------------|-------------------------------|-------------------------------|
| | | Design pro | Construction pro | | College | Shy | Age | Live USA | Extraversion /Intraversio n | Sensing | Thinking /Feeling | Judging/ Perceivin g |
| Count % | У | 1 9% | 2 18% | 3 27% | 9 82% | 0 | | E | 11 100% | | J | 11 100% |
| Count % | n | 10 91% | 9 82% | 8 73% | 2 18% | 11 100% | | 1 | 0 0% | | Р | 0 0% |
| 70 | | 100% | 100% | 100% | 100% | 100% | L | | 100% | | | 100% |
| ENTJ | | | | | u25 o25 o35 o50 | 0 2 5 4 | 0% 18% 45% 36% | | S N | 0 0% 11 100% | | |
| | | | | | never five ten moreten life | 0 0 0 3 8 11 | 0% 0% 0% 27% 73% | | | T F | 11 100% 0 0% 100% | |
| Count % Count % ENTP | y n | 3 21% 11 79% 100% | 1 7% 13 93% 100% | 7 50% 7 50% 100% | 11 79% 3 21% 100% u25 o25 o35 o50 | 0 0% 14 100% 100% 0 1 4 | 0% 7% 29% 64% | E I | 14 100% 0 0% 100% S | 0 0% 14 100% | J P | 0 0% 14 100% 100% |
| | | | | | never five ten moreten life | 14 0 0 1 2 11 14 | 100% 0% 0% 7% 14% 79% | | | 100% T F | 14 100% 0 0% 100% | |

| | Survey Results | | | | | | | | | | | | | | | | |
|---------|----------------|-------|---------|----------|---------|---------|----------|----------|--------|---------|---------|---------|----------|-------|---------|----------|----------|
| Rating | F1 | | F3 | F4 | F5 | F6 | | 12 | 13 | 14 | 15 | 16 | P1 | P2 | | P4 | P5 |
| | | F2 | | | | | I1 | | | | | | | | Р3 | | |
| 1 | 3 | 3 | 2 | 3 | 1 | 1 | 1 | 6 | 7 | 7 | 0 | 4 | 5 | 6 | 1 | 2 | 2 |
| | 27% 5 | 27% | 18% | 27% 4 | 9% 4 | 9% 4 | 9% 3 | 55% 3 | 64% | 64% | 0% 3 | 36% | 45% 2 | 55% | 9% 5 | 18% | 18° |
| 2 | 45% | 18% | 9% | 36% | 36% | 36% | 27% | 27% | 27% | 27% | 27% | 18% | 18% | 9% | 45% | 6 55% | 1 9% |
| | 1 | 2 | 2 | 1 | 1 | 2 | 4 | 2 | 1 | 1 | 5 | 2 | 3 | 1 | 0 | 1 | 2 |
| 3 | 9% | 18% | 18% | 9% | 9% | 18% | 36% | 18% | 9% | 9% | 45% | 18% | 27% | 9% | 0% | 9% | 189 |
| | 1 | 2 | 4 | 3 | 3 | 1 | 2 | 0 | 0 | 0 | 2 | 1 | 1 | 2 | 4 | 2 | 6 |
| 4 | 9% | 18% | 36% | 27% | 27% | 9% | 18% | 0% | 0% | 0% | 18% | 9% | 9% | 18% | 36% | 18% | 559 |
| _ | 1 | 2 | 2 | 0 | 2 | 3 | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 1 | 1 | 0 | 0 |
| 5 | 9% | 18% | 18% | 0% | 18% | 27% | 9% | 0% | 0% | 0% | 9% | 18% | 0% | 9% | 9% | 0% | 0% |
| | 11 | | | | | | | | SAME | | | | | | | | |
| Average | 2.27 | 2.82 | 3.27 | 2.36 | 3.09 | 3.09 | 2.91 | 1.64 | 1.45 | 1.45 | 3.09 | 2.55 | 2.00 | 2.18 | 2.91 | 2.27 | 3.0 |
| Std Dev | 1.27 | 1.54 | 1.42 | 1.21 | 1.38 | 1.45 | 1.14 | 0.81 | 0.69 | 0.69 | 0.94 | 1.57 | 1.10 | 1.54 | 1.30 | 1.01 | 1.2 |
| 95% CI | 0.752 | 0.909 | 0.84 | 0.713 | 0.813 | 0.855 | 0.671 | 0.478 | 0.406 | 0.406 | 0.558 | 0.929 | 0.647 | 0.909 | 0.768 | 0.596 | 0.72 |
| 1 | 5 | 2 | 4 | 1 | 3 | 4 | 3 | 8 | 7 | 10 | 2 | 5 | 4 | 3 | 1 | 6 | 5 |
| ' | 36% | 14% | 29% | 7% | 21% | 29% | 21% | 57% | 50% | 71% | 14% | 36% | 29% | 21% | 7% | 43% | 36° |
| 2 | 5 | 4 | 4 | 7 | 4 | 3 | 3 | 3 | 4 | 3 | 6 | 5 | 6 | 6 | 9 | 3 | 3 |
| | 36% | 29% | 29% | 50% | 29% | 21% | 21% | 21% | 29% | 21% | 43% | 36% | 43% | 43% | 64% | 21% | 219 |
| 3 | 0 | 3 | 4 | 1 | 3 | 3 | 4 | 1 | 2 | 0 | 3 | 1 | 2 | 2 | 2 | 5 | 2 |
| | 0% | 21% | 29% | 7% 0 | 21% | 21% | 29% 3 | 7% | 14% | 0% | 21% | 7% 3 | 14% | 14% | 14% | 36% | 149 3 |
| 4 | 14% | 14% | 1 7% | 0% | 21% | 14% | 21% | 1 7% | 7% | 1 7% | 14% | 21% | 14% | 14% | 7% | 0% | 219 |
| _ | 2 | 3 | 1 | 5 | 1 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 |
| 5 | 14% | 21% | 7% | 36% | 7% | 14% | 7% | 7% | 0% | 0% | 7% | 0% | 0% | 7% | 7% | 0% | 7% |
| | 14 | | | | | | | DI | IFFERE | NT | | | | | | | |
| Average | 2.36 | 3.00 | 2.36 | 3.07 | 2.64 | 2.64 | 2.71 | 1.86 | 1.79 | | 2.57 | 2.14 | 2.14 | 2.43 | 2.43 | 1.93 | 2.4 |
| Std Dev | 1.50 | 1.41 | 1.22 | 1.54 | 1.28 | 1.45 | 1.27 | 1.29 | | | 1.16 | 1.17 | 1.03 | 1.22 | 1.02 | 0.92 | 1.4 |
| 95% CI | | | | | | | | | | 0.446 | | - | | | 0.532 | 0.48 | |
| | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100 |
| | | | | | | | | | | | | | | | | | |

MYERS-BRIGGS DATA ANALYSIS

| | | | | demog | graphics | | | | | Meyers- | Briggs | |
|-----------------|--------|------------------------------|-------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------|-------------|------------------------------------|------------------------------------|-----------------------|----------------------------|
| | | Design pro | Construction pro | Male | College | Shy | Age | Live USA | Extraversion /Intraversio n | Sensing /Intuiti on | Thinking /Feeling | Judging/ Perceivin g |
| Count % | у | 0 | 4 15% | 4 15% | 20 74% | 0 | | E | 27 100% | | J | 27 100% |
| Count % | n | 27 100% | 23 85% | 23 85% | 7 26% | 27 100% | | I | 0 0% | | Р | 0 |
| ESFJ | | 100% | 100% | 100% | u25 o25 o35 o50 never five ten moreten life | 100% 0 6 10 11 27 0 0 0 2 25 27 | 0% 22% 37% 41% 100% 0% 0% 0% 7% 93% | | 100% S N | 27 100% 0 0% 100% T | 0 0% 27 100% | 100% |
| Count % Count % | y n | 1 4% 25 96% 100% | 8 31% 18 69% 100% | 4 15% 22 85% 100% | 15 58% 11 42% 100% u25 o25 o35 o50 never five ten moreten life | 0 0% 26 100% 1 7 11 7 26 0 0 0 0 | 4% 27% 42% 27% 100% 0% 0% 0% 0% 100% | E I | 26 100% 0 0% 100% S | 26 100% 0 0% 100% T | J P 0 0% 26 100% | 0 0% 26 100% |

Page 5

| | | | | | | | | S | urvey | Result | s | | | | | | |
|-------------------|----------|------|--------------|---------|---------------|-------|------------|----------|---------|---------|---------------|----------|----------|---------------|----------|----------|----------|
| Rating | F1 | F2 | F3 | F4 | F5 | F6 | I 1 | 12 | 13 | 14 | 15 | 16 | P1 | P2 | P3 | P4 | P5 |
| 1 | 8 | 1 | 2 | 12 | 2 | 1 | 6 | 13 | 15 | 16 | 8 | 11 | 11 | 10 | 6 | 4 | 11 |
| ' | 30% | 4% | 7% | 44% | 7% | 4% | 22% | 48% | 56% | 59% | 30% | 41% | 41% | 37% | 22% | 15% | 419 |
| 2 | 10 | 2 | 10 | 10 | 8 | 4 | 6 | 3 | 1 | 4 | 6 | 4 | 9 | 4 | 4 | 9 | 6 |
| | 37% | 7% | 37% | 37% | 30% | 15% | 22% | 11% | 4% | 15% | 22% | 15% | 33% | 15% | 15% | 33% | 229 |
| 3 | 1 | 7 | 5 | 1 | 6 | 3 | 6 | 9 | 10 | 7 | 8 | 12 | 2 | 4 | 4 | 6 | 0 |
| | 4% | 26% | 19% | 4% | 22% | 11% | 22% | 33% | 37% | 26% | 30% | 44% | 7% | 15% | 15% | 22% | 0% |
| 4 | 6 | 8 | 7 | 3 | 6 | 7 | 6 | 1 | 1 | 0 | 4 | 0 | 5 | 8 | 10 | 6 | 7 |
| | 22% | 30% | 26% | 11% | 22% | 26% | 22% | 4% | 4% | 0% | 15% | 0% | 19% | 30% | 37% | 22% | 26°, |
| 5 | 2 | 9 | 3 | 1 | 5 | 12 | 3 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 3 | 2 | 3 |
| | 7% | 33% | 11% | 4% | 19% | 44% | 11% | 4% | 0% | 0% | 4% | 0% | 0% | 4% | 11% | 7% | 119 |
| | 27 | 0.01 | 0.07 | 4.00 | 0.45 | 0.00 | 0.70 | 0.04 | SAME | 4 (7 | 0.44 | 0.04 | 0.04 | 0.40 | 0.00 | 0.74 | |
| Average | 2.41 | 3.81 | 2.96 | 1.93 | 3.15 | 3.93 | 2.78 | 2.04 | 1.89 | 1.67 | 2.41 | 2.04 | 2.04 | 2.48 | 3.00 | 2.74 | 2.4 |
| Std Dev 95% CI | 1.34 | 1.11 | 1.19 0.45 | 1.14 | 1.26 0.476 | 1.24 | 1.34 | 1.16 | 1.05 | 0.88 | 1.19 0.447 | 0.94 | 1.13 | 1.37 0.516 | 1.39 | 1.20 | 1.5 |
| | | | | | | | | | | | | | | | | | |
| 1 | 6 | 0 | 3 | 13 | 3 | 1 | 2 | 10 | 15 | 15 | 2 | 5 | 5 | 3 | 5 | 3 | 3 |
| | 23% | 0% | 12% | 50% | 12% | 4% | 8% | 38% | 58% | 58% | 8% | 19% | 19% | 12% | 19% | 12% | 129 |
| 2 | 8 | 1 | 6 | 7 | 9 | 6 | 10 | 7 | 8 | 4 | 11 | 7 | 10 | 11 | 4 | 9 | 8 |
| | 31% | 4% | 23% | 27% | 35% | 23% | 38% | 27% | 31% | 15% | 42% | 27% 9 | 38% | 42% | 15% 7 | 35% | 319 |
| 3 | 4 | 6 | 6 | 4 | - | 3 | 7 | 5 | 2 | 5 | 6 | - | 4 | 4 | - | 5 | 3 |
| | 15% 4 | 23% | 23% | 15% | 35% | 12% | 27% 5 | 19% | 8% | 19% | 23% | 35% | 15% 7 | 15% 7 | 27% 9 | 19% | 129 |
| 4 | 15% | 15% | 19% | 2 8% | 3 12% | 15% | 19% | 3 12% | 1 4% | 2 8% | 5 19% | 2 8% | 27% | 27% | 35% | 8 31% | 8 319 |
| | 4 | 15 % | 6 | 0 | 2 | 12 | 2 | 12 /0 | 0 | 0 | 2 | 3 | 0 | 1 | 1 | 1 | 4 |
| 5 | 15% | 58% | 23% | 0% | 8% | 46% | 8% | 4% | 0% | 0% | 8% | 12% | 0% | 4% | 4% | 4% | 15° |
| | 26 | | | | | | | | | | | | | | | | |
| Average | 2.69 | 4.27 | 3.19 | 1.81 | 2.69 | 3.77 | 2.81 | 2.15 | 1.58 | 1.77 | 2.77 | 2.65 | 2.50 | 2.69 | 2.88 | 2.81 | 3.0 |
| Std Dev | 1.41 | 0.96 | 1.36 | 0.98 | 1.09 | 1.37 | 1.10 | 1.19 | 0.81 | 1.03 | 1.11 | 1.23 | 1.10 | 1.12 | 1.21 | 1.13 | 1.3 |
| 95% CI | 0.541 | 0.37 | 0.522 | 0.377 | 0.418 | 0.525 | 0.421 | 0.457 | 0.311 | 0.397 | 0.425 | 0.473 | 0.425 | 0.432 | 0.465 | 0.435 | 0.50 |
| | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100 |
| | | | | | | | | | | | | | | | | | |

| | | | | demoç | graphics | | | | | Meyers- | Briggs | |
|------------|-----|---------------|---------------------|-----------|-----------------|----------|------------|-------------|-----------------------------------|---------------------------|----------------------|----------------------------|
| | | Design pro | Construction pro | Male | College | Shy | Age | Live USA | Extraversion /Intraversio n | Sensing /Intuiti on | Thinking /Feeling | Judging/ Perceivin g |
| Count | у | 3 | 11 | 17 | 35 | 3 | | E | 48 | | J | 48 |
| % Count | | 6% 45 | 23% 37 | 35% 31 | 73% 13 | 6% 45 | F | | 100% 0 | | | 100% 0 |
| % | n | 94% | 77% | 65% | 27% | 94% | | I | 0% | | Р | 0% |
| 70 | | 100% | 100% | 100% | | 100% | L | | 100% | | | 100% |
| ESTJ | | 10070 | 10070 | 10070 | u25 | 3 | 6% | | S | 48 | | 10070 |
| | | | | | o25 | 9 | 19% | | 3 | 100% | | |
| | | | | | o35 o50 | 19 17 | 40% 35% | | N | 0 | | |
| | | | | | 030 | 48 | 100% | | | 100% | | |
| | | | | | never | 0 | 0% | | | | 48 | |
| | | | | | five | 0 | 0% | | | Т | 100% | |
| | | | | | ten | 0 | 0% | | | Г | 0 | |
| | | | | | moreten | 3 | 6% | | | F | 0% | |
| | | | | | life | 45 | 94% | | | | 100% | |
| | | | | | | 48 | 100% | | | | | |
| Count | | 0 | 5 | 5 | 13 | 1 | ĺ | F | 17 | | | 0 |
| % | У | 0% | 29% | 29% | 76% | 6% | | E | 100% | | J | 0% |
| Count | n | 17 | 12 | 12 | 4 | 16 | | 1 | 0 | | Р | 17 |
| % | ••• | 100% | 71% | 71% | 24% | 94% | L | • | 0% | | · | 100% |
| FCTD | | 100% | 100% | 100% | 100% | 100% | | | 100% | | | 100% |
| ESTP | | | | | u25 o25 | 1 1 | 6% 6% | | S | 17 100% | | |
| | | | | | 025 | 7 | 41% | | | 0 | | |
| | | | | | 050 | 8 | 47% | | N | 0% | | |
| | | | | ļ | | 17 | 100% | | | 100% | | |
| | | | | | never | 0 | 0% | | | Т | 17 | |
| | | | | | five | 0 | 0% | | | - | 100% | |
| | | | | | ten | 0 | 0% | | | F | 0 | |
| | | | | | moreten life | 4 13 | 24% 76% | | | | 0% 100% | |
| | | | | | IIIC | 17 | 100% | | | | 10070 | |

| | | | | | | | | S | urvey | Result | S | | | | | | |
|---------|----------|-----------|------|------|------|-----------|----------|------|--------|--------|------|------|------|------|-------|------|-----|
| Rating | F1 | | F3 | F4 | F5 | F6 | | 12 | 13 | 14 | 15 | 16 | P1 | P2 | | P4 | P5 |
| | | F2 | | | | | I1 | | | | | | | | Р3 | | |
| 1 | 13 | 5 | 11 | 21 | 8 | 6 | 13 | 21 | 36 | 37 | 11 | 19 | 18 | 19 | 13 | 14 | 13 |
| ' | 27% | 10% | 23% | 44% | 17% | 13% | 27% | 44% | 75% | 77% | 23% | 40% | 38% | 40% | 27% | 29% | 279 |
| 2 | 19 | 13 | 6 | 11 | 18 | 7 | 4 | 10 | 6 | 5 | 10 | 7 | 14 | 14 | 7 | 21 | 15 |
| | 40% | 27% | 13% | 23% | 38% | 15% | 8% | 21% | 13% | 10% | 21% | 15% | 29% | 29% | 15% | 44% | 319 |
| 3 | 3 | 9 | 8 | 3 | 4 | 4 | 16 | 14 | 5 | 6 | 18 | 18 | 7 | 10 | 4 | 9 | 6 |
| | 6% | 19% | 17% | 6% | 8% | 8% | 33% | 29% | 10% | 13% | 38% | 38% | 15% | 21% | 8% | 19% | 139 |
| 4 | 4 | 5 | 11 | 5 | 10 | 13 | 13 | 3 | 1 | 0 | 8 | 4 | 7 | 5 | 20 | 3 | 8 |
| | 8% | 10% | 23% | 10% | 21% | 27% | 27% | 6% | 2% | 0% | 17% | 8% | 15% | 10% | 42% | 6% | 179 |
| 5 | 9 | 16 | 12 | 8 | 8 | 18 | 2 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 4 | 1 | 6 |
| | 19% | 33% | 25% | 17% | 17% | 38% | 4% | 0% | 0% | 0% | 2% | 0% | 4% | 0% | 8% | 2% | 139 |
| | 48 | | | | | | | | | SAME | | | | | | | |
| Average | 2.52 | 3.29 | 3.15 | 2.33 | 2.83 | 3.63 | 2.73 | 1.98 | 1.40 | 1.35 | 2.54 | 2.15 | 2.19 | 2.02 | 2.90 | 2.08 | 2.5 |
| Std Dev | 1.46 | 1.44 | 1.52 | 1.53 | 1.39 | 1.44 | 1.25 | 1.00 | 0.76 | 0.70 | 1.09 | 1.05 | 1.21 | 1.02 | 1.42 | 0.96 | 1.3 |
| 95% CI | | 0.408 | | | | | | | - | 0.198 | | | | | 0.401 | | |
| | | | | | _ | | | | _ | 100% | • | | | _ | 100% | _ | • |
| 1 | 3 | 1 | 3 | 8 | 1 | 0 | 1 | 7 | 12 | 13 | 4 | 5 | 6 | 8 | 1 | 6 | 5 |
| | 18% | 6% | 18% | 47% | 6% | 0% | 6% | 41% | 71% | 76% | 24% | 29% | 35% | 47% | 6% | 35% | 299 |
| 2 | 6 | 2 | 5 | 2 | 4 | 3 | 8 | 5 | 1 | 2 | 4 | 3 | 3 | 5 | 3 | 7 | 4 |
| | 35% | 12% | 29% | 12% | 24% | 18% | 47% | 29% | 6% | 12% | 24% | 18% | 18% | 29% | 18% | 41% | 249 |
| 3 | 3 | 1 | 2 | 4 | 4 | 1 | 3 | 3 | 2 | 0 | 4 | 5 | 2 | 2 | 2 | 2 | 2 |
| | 18% | 6% | 12% | 24% | 24% | 6% | 18% | 18% | 12% | 0% | 24% | 29% | 12% | 12% | 12% | 12% | 129 |
| 4 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 5 | 4 | 4 | 1 | 9 | 2 | 4 |
| | 12% | 18% | 18% | 12% | 12% | 18% | 18% | 12% | 12% | 12% | 29% | 24% | 24% | 6% | 53% | 12% | 249 |
| 5 | 3 18% | 10 59% | 4 | 1 | 6 | 10 59% | 2 12% | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 0 | 2 |
| | | 59% | 24% | 6% | 35% | 59% | 12% | | | | 0% | 0% | 12% | 6% | 12% | 0% | 129 |
| | 17 | 1.16 | 0.00 | 0.46 | 0.4= | 1.16 | 0.00 | | IFFERE | | 0.56 | 0.4= | 0.56 | 10: | 0.4= | 0.06 | |
| Average | 2.76 | 4.12 | 3.00 | 2.18 | 3.47 | 4.18 | 2.82 | 2.00 | | 1.47 | 2.59 | 2.47 | 2.59 | 1.94 | 3.47 | 2.00 | 2.6 |
| Std Dev | 1.39 | 1.32 | 1.50 | 1.33 | 1.37 | 1.19 | 1.19 | | 1.11 | 1.01 | 1.18 | 1.18 | 1.50 | 1.20 | 1.12 | 1.00 | 1.4 |
| 95% CI | | | | | | | | | | 0.479 | | | | | 0.535 | | |
| | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100 |
| | | | | | | | | | | | | | | | | | |

| | | | | demoç | graphics | | | | | Meyers- | Briggs | |
|------------|---|---------------|---------------------|-----------|----------------|--------------|-----------------|-------------|-----------------------------------|---------------------------|----------------------|----------------------------|
| | | Design pro | Construction pro | Male | College | Shy | Age | Live USA | Extraversion /Intraversio n | Sensing /Intuiti on | Thinking /Feeling | Judging/ Perceivin g |
| Count % | У | 3 19% | 2 13% | 4 25% | 13 81% | 6 38% | | E | 0 0% | | J | 16 100% |
| Count % | n | 13 81% | 14 88% | 12 75% | 3 19% | 10 63% | | I | 16 100% | | Р | 0 0% |
| INFJ | | 100% | 100% | 100% | 100% u25 | 100% | 13% | | 100% S | 0 | | 100% |
| | | | | | o25 o35 | 2 | 13% 19% | | N N | 0% 16 | | |
| | | | | | o50 | 9 16 | 56% 100% | | 14 | 100% 100% | | |
| | | | | | never five | 0 | 0% 0% | | | Т | 0 0% | |
| | | | | | ten moreten | 0 | 0% 0% | | | F | 16 100% | |
| | | | | | life | 16 16 | 100% 100% | | | | 100% | |
| Count % | у | 2 | 1 5% | 10 48% | 11 52% | 12 57% | | E | 0 | | J | 0 |
| Count % | n | 19 90% | 20 95% | 11 52% | 10 48% | 9 43% | | I | 21 100% | | Р | 21 100% |
| INFP | | 100% | 100% | 100% | 100% u25 | 100% | 5% | | 100% | 0 | | 100% |
| | | | | | o25 | 2 | 10% | | S | 0% 21 | | |
| | | | | | o35 o50 | 8 10 | 38% 48% | | N | 100% | | |
| | | | | | never | 21 0 | 100% 0% | | | 100% | 0 | |
| | | | | | five | 0 | 0% | | | Т | 0% 21 | |
| | | | | | ten moreten | 3 | 14% | | | F | 100% | |
| | | | | | life | 18 21 | 86% 100% | | | | 100% | |

| | | | | | | | | S | urvey | Result | S | | | | | | |
|---------|-------|------|-------|-------|-------|-------|------------|-------|--------|--------|-------|-------|-------|-------|-------|-------|------|
| Rating | F1 | F2 | F3 | F4 | F5 | F6 | I 1 | 12 | 13 | 14 | 15 | 16 | P1 | P2 | P3 | P4 | P5 |
| | 5 | 3 | 4 | 7 | 3 | 2 | 5 | 10 | 10 | 13 | 11 | 11 | 4 | 7 | 2 | 5 | 3 |
| 1 | 31% | 19% | 25% | 44% | 19% | 13% | 31% | 63% | 63% | 81% | 69% | 69% | 25% | 44% | 13% | 31% | 199 |
| _ | 6 | 2 | 4 | 3 | 8 | 6 | 2 | 1 | 1 | 1 | 0 | 0 | 6 | 5 | 5 | 5 | 2 |
| 2 | 38% | 13% | 25% | 19% | 50% | 38% | 13% | 6% | 6% | 6% | 0% | 0% | 38% | 31% | 31% | 31% | 139 |
| | 2 | 3 | 3 | 3 | 4 | 1 | 6 | 5 | 5 | 1 | 4 | 2 | 1 | 1 | 3 | 3 | 3 |
| 3 | 13% | 19% | 19% | 19% | 25% | 6% | 38% | 31% | 31% | 6% | 25% | 13% | 6% | 6% | 19% | 19% | 199 |
| 4 | 1 | 1 | 3 | 3 | 0 | 1 | 2 | 0 | 0 | 1 | 1 | 2 | 4 | 2 | 5 | 3 | 5 |
| 4 | 6% | 6% | 19% | 19% | 0% | 6% | 13% | 0% | 0% | 6% | 6% | 13% | 25% | 13% | 31% | 19% | 319 |
| 5 | 2 | 7 | 2 | 0 | 1 | 6 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 3 |
| 3 | 13% | 44% | 13% | 0% | 6% | 38% | 6% | 0% | 0% | 0% | 0% | 6% | 6% | 6% | 6% | 0% | 199 |
| | 16 | | | | | | | | SAME | | | | | | | | |
| Average | 2.31 | 3.14 | 2.72 | 2.16 | 2.67 | 3.13 | 2.56 | 1.99 | 1.79 | 1.74 | 2.41 | 2.23 | 2.21 | 2.28 | 2.62 | 2.26 | 2.5 |
| Std Dev | 1.35 | 2.33 | 1.98 | 2.33 | 2.05 | 2.28 | 2.03 | 2.28 | 2.85 | 2.87 | 2.02 | 2.24 | 2.13 | 2.13 | 2.16 | 2.13 | 2.0 |
| 95% CI | 0.663 | 1.14 | 0.972 | 1.141 | 1.005 | 1.119 | 0.994 | 1.115 | 1.398 | 1.406 | 0.987 | 1.095 | 1.044 | 1.044 | 1.058 | 1.042 | 1.00 |
| I | 6 | 1 1 | 6 | 8 | 3 | l o | 6 | 4 | l 13 | 14 | l 5 | 10 | 4 | 8 | 3 | 2 | 4 |
| 1 | 29% | 5% | 29% | 38% | 14% | 0% | 29% | 19% | 62% | 67% | 24% | 48% | 19% | 38% | 14% | 10% | 199 |
| | 4 | 3 | 7 | 7 | 2 | 7 | 3 | 7 | 4 | 3 | 4 | 4 | 9 | 5 | 5 | 10 | 3 |
| 2 | 19% | 14% | 33% | 33% | 10% | 33% | 14% | 33% | 19% | 14% | 19% | 19% | 43% | 24% | 24% | 48% | 149 |
| 0 | 4 | 6 | 2 | 2 | 6 | 4 | 6 | 9 | 4 | 2 | 6 | 4 | 3 | 4 | 5 | 7 | 3 |
| 3 | 19% | 29% | 10% | 10% | 29% | 19% | 29% | 43% | 19% | 10% | 29% | 19% | 14% | 19% | 24% | 33% | 149 |
| 4 | 0 | 4 | 5 | 2 | 5 | 3 | 5 | 1 | 0 | 2 | 6 | 3 | 5 | 2 | 6 | 2 | 8 |
| 4 | 0% | 19% | 24% | 10% | 24% | 14% | 24% | 5% | 0% | 10% | 29% | 14% | 24% | 10% | 29% | 10% | 389 |
| 5 | 7 | 7 | 1 | 2 | 5 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 3 |
| 3 | 33% | 33% | 5% | 10% | 24% | 33% | 5% | 0% | 0% | 0% | 0% | 0% | 0% | 10% | 10% | 0% | 149 |
| | 21 | | | | | | | DI | IFFERE | NT | | | | | | | |
| Average | 2.90 | 3.62 | 2.43 | 2.19 | 3.33 | 3.48 | 2.62 | 2.33 | | 1.62 | 2.62 | 2.00 | 2.43 | 2.29 | 2.95 | 2.43 | 3.1 |
| Std Dev | 1.67 | 1.24 | 1.29 | 1.33 | 1.35 | 1.29 | 1.28 | 0.86 | 0.81 | 1.02 | 1.16 | 1.14 | 1.08 | 1.35 | 1.24 | 0.81 | 1.3 |
| 95% CI | | | 0.551 | | | | | | | | | | | | 0.532 | - | - |
| | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100 |

| | | | | demog | graphics | | | | | Meyers- | Briggs | |
|-------|---|---------------|------------------|-------|--------------------|---------------|------------|-------------|-----------------------------|---------------------------|----------------------|----------------------------|
| | | Design pro | Construction pro | Male | College | Shy | Age | Live USA | Extraversion /Intraversio n | Sensing /Intuiti on | Thinking /Feeling | Judging/ Perceivin g |
| % | У | 0% | 20% | 60% | 60% | 70% | | Е | 0% | | J | 100% |
| Count | n | 10 | 8 | 4 | 4 | 3 | | I | 10 | | Р | 0 |
| % | | 100% | 80% | 40% | 40% | 30% | L | | 100% | | | 0% |
| INTJ | | 100% | 100% | 100% | 100% u25 o25 | 100% | 10% | | 100% S | 0 | | 100% |
| | | | | | o35 o50 | 2 | 20% 40% | | N | 10 100% | | |
| | | | | | 030 | 10 | 100% | | | 100% | l | |
| | | | | | never | 1 | 10% | | | | 10 | |
| | | | | | five | 1 | 10% | | | Т | 100% | |
| | | | | | ten | 0 | 0% | | | F | 0 | |
| | | | | | moreten | 1 | 10% | | | Г | 0% | |
| | | | | | life | 7 | 70% | | | | 100% | |
| | | | | | | 10 | 100% | | | | | |
| Count | | 2 | 6 | 10 | 10 | 4 | | _ | 0 | | l . i | 0 |
| % | У | 15% | 46% | 77% | 77% | 31% | | E | 0% | | J | 0% |
| Count | n | 11 | 7 | 3 | 3 | 9 | | 1 | 13 | | Р | 13 |
| % | | 85% | 54% | 23% | 23% | 69% | L | • | 100% | | , | 100% |
| INITO | | 100% | 100% | 100% | 100% | 100% | | | 100% | | 1 | 100% |
| INTP | | | | | u25 o25 | <u>0</u> 1 | 0% 8% | | S | 0 | | |
| | | | | | 025 | 5 | 38% | | | 13 | | |
| | | | | | 050 | 6 | 46% | | N | 100% | | |
| | | | | | | 12 | 92% | | | 100% | | |
| | | | | | never | 0 | 0% | | | Т | 13 | |
| | | | | | five | 0 | 0% | | | ı | 100% | |
| | | | | | ten | 0 | 0% | | | F | 0 | |
| | | | | | moreten | 1 | 8% | | | | 0% | |
| | | | | | life | 11 12 | 85% 92% | | | | 100% | |
| | | | | | | 1 ∠ | 72 /0 | | | | | |

| | | | | | | | | S | urvey | Result | S | | | | | | |
|---------|-------|-------|-------|------------|-------|-------|------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|------|
| Rating | F1 | F2 | F3 | F4 | F5 | F6 | I 1 | 12 | 13 | 14 | 15 | 16 | P1 | P2 | P3 | P4 | P5 |
| 1 | 40% | 20% | 30% | 50% | 10% | 20% | 40% | 40% | 70% | 80% | 30% | 30% | 20% | 20% | 0% | 0% | 30% |
| 2 | 3 | 1 | 2 | 1 | 4 | 1 | 0 | 2 | 1 | 1 | 2 | 2 | 3 | 4 | 4 | 4 | 5 |
| 2 | 30% | 10% | 20% | 10% | 40% | 10% | 0% | 20% | 10% | 10% | 20% | 20% | 30% | 40% | 40% | 40% | 509 |
| 3 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 3 | 2 | 0 | 2 | 3 | 1 | 0 | 3 | 2 | 1 |
| 3 | 10% | 20% | 10% | 20% | 20% | 20% | 20% | 30% | 20% | 0% | 20% | 30% | 10% | 0% | 30% | 20% | 109 |
| 4 | 1 | 3 | 3 | 2 | 1 | 3 | 2 | 1 | 0 | 0 | 3 | 2 | 4 | 4 | 2 | 4 | 0 |
| 4 | 10% | 30% | 30% | 20% | 10% | 30% | 20% | 10% | 0% | 0% | 30% | 20% | 40% | 40% | 20% | 40% | 0% |
| 5 | 1 | 2 | 1 | 0 | 2 | 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 3 | 10% | 20% | 10% | 0% | 20% | 20% | 20% | 0% | 0% | 10% | 0% | 0% | 0% | 0% | 10% | 0% | 109 |
| | 10 | | | | | | | | SAME | | | | | | | | |
| Average | 2.20 | 3.20 | 2.70 | 2.10 | 2.90 | 3.20 | 2.80 | 2.10 | 1.50 | 1.50 | 2.50 | 2.40 | 2.70 | 2.60 | 3.00 | 3.00 | 2.1 |
| Std Dev | 1.40 | 1.48 | 1.49 | 1.29 | 1.37 | 1.48 | 1.69 | 1.10 | 0.85 | 1.27 | 1.27 | 1.17 | 1.25 | 1.26 | 1.05 | 0.94 | 1.2 |
| 95% CI | 0.867 | 0.915 | 0.926 | 0.797 | 0.849 | 0.915 | 1.045 | 0.682 | 0.527 | 0.787 | 0.787 | 0.728 | 0.776 | 0.784 | 0.653 | 0.584 | 0.74 |
| 1 | 2 | l o l | 5 | l 3 | 1 1 | 2 | 2 | l 7 | 9 | l 6 | l 2 | l 7 | 4 | 3 | 1 1 | l 6 | l 1 |
| 1 | 15% | 0% | 38% | 23% | 8% | 15% | 15% | 54% | 69% | 46% | 15% | 54% | 31% | 23% | 8% | 46% | 8% |
| _ | 5 | 1 | 2 | 2 | 5 | 4 | 4 | 2 | 2 | 1 | 0 | 0 | 4 | 3 | 3 | 3 | 3 |
| 2 | 38% | 8% | 15% | 15% | 38% | 31% | 31% | 15% | 15% | 8% | 0% | 0% | 31% | 23% | 23% | 23% | 239 |
| | 3 | 3 | 1 | 2 | 5 | 1 | 4 | 3 | 2 | 5 | 5 | 4 | 1 | 3 | 0 | 3 | 2 |
| 3 | 23% | 23% | 8% | 15% | 38% | 8% | 31% | 23% | 15% | 38% | 38% | 31% | 8% | 23% | 0% | 23% | 159 |
| | 1 | 4 | 3 | 2 | 2 | 5 | 3 | 1 | 0 | 0 | 5 | 1 | 4 | 3 | 7 | 1 | 5 |
| 4 | 8% | 31% | 23% | 15% | 15% | 38% | 23% | 8% | 0% | 0% | 38% | 8% | 31% | 23% | 54% | 8% | 389 |
| 5 | 2 | 5 | 2 | 4 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 2 | 0 | 2 |
| 5 | 15% | 38% | 15% | 31% | 0% | 8% | 0% | 0% | 0% | 8% | 8% | 8% | 0% | 8% | 15% | 0% | 159 |
| | 13 | | | | | | | | SAME | | | | | | | | |
| Average | 2.69 | 4.00 | 2.62 | 3.15 | 2.62 | 2.92 | 2.62 | 1.85 | 1.46 | 2.15 | 3.23 | 2.15 | 2.38 | 2.69 | 3.46 | 1.92 | 3.3 |
| Std Dev | 1.32 | 1.00 | 1.61 | 1.63 | 0.87 | 1.32 | 1.04 | 1.07 | 0.78 | 1.28 | 1.17 | 1.41 | 1.26 | 1.32 | 1.27 | 1.04 | 1.2 |
| 95% CI | | | | | | | | | | | 0.634 | | | 0.715 | | | |
| | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100 |
| | | | | | | | | | | | | | | | | | |

| | | | | demog | graphics | | | | | Meyers- | Briggs | |
|------------------------|--------|-----------------------|-------------------------------|-------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------|------------------------------------|------------------------------------|-----------------------|-------------------------------|
| | | Design pro | Construction pro | Male | College | Shy | Age | Live USA | Extraversion /Intraversio n | Sensing /Intuiti on | Thinking /Feeling | Judging/ Perceivin g |
| Count % | У | 2 3% | 16 25% | 11 17% | 41 64% | 24 38% | | E | 0 0% | | J | 64 100% |
| Count % | n | 62 97% | 48 75% | 53 83% | 23 36% | 40 63% | | 1 | 64 100% | | Р | 0 0% |
| ISFJ | | 100% | 100% | 100% | u25 o25 o35 o50 never five ten moreten life | 100% 1 6 21 36 64 0 0 0 0 3 61 64 | 2% 9% 33% 56% 100% 0% 0% 0% 5% 95% | | 100% S N | 64 100% 0 0% 100% T | 0 0% 64 100% | 100% |
| Count % Count % ISFP | y n | 0 0% 26 100% | 3 12% 23 88% 100% | 8 31% 18 69% 100% | 16 62% 10 38% 100% u25 025 035 050 never five ten moreten life | 12 46% 14 54% 100% 2 1 9 14 26 0 0 0 1 25 26 | 8% 4% 35% 54% 100% 0% 0% 4% 96% | E I | 0 0% 26 100% 100% S | 26 100% 0 0% 100% T | J P 0 0% 26 100% | 0 0% 26 100% 100% |

| | | | | | | | | S | urvey | Result | :s | | | | | | |
|---------|------|------|---------------|------|------|------|------|------|-------|---------------|------|------|------|------|---------------|------|-----|
| Rating | F1 | F2 | F3 | F4 | F5 | F6 | 11 | 12 | 13 | 14 | 15 | 16 | P1 | P2 | P3 | P4 | P5 |
| | 17 | 3 | 15 | 33 | 9 | 3 | 16 | 32 | 45 | 47 | 23 | 28 | 22 | 20 | 10 | 15 | 6 |
| 1 | 27% | 5% | 23% | 52% | 14% | 5% | 25% | 50% | 70% | 73% | 36% | 44% | 34% | 31% | 16% | 23% | 9% |
| 0 | 24 | 11 | 16 | 16 | 18 | 7 | 16 | 11 | 8 | 9 | 15 | 11 | 20 | 22 | 15 | 20 | 18 |
| 2 | 38% | 17% | 25% | 25% | 28% | 11% | 25% | 17% | 13% | 14% | 23% | 17% | 31% | 34% | 23% | 31% | 289 |
| 3 | 3 | 14 | 6 | 6 | 8 | 10 | 17 | 16 | 11 | 8 | 19 | 21 | 7 | 5 | 9 | 14 | 6 |
| 3 | 5% | 22% | 9% | 9% | 13% | 16% | 27% | 25% | 17% | 13% | 30% | 33% | 11% | 8% | 14% | 22% | 9% |
| 4 | 10 | 16 | 16 | 6 | 15 | 16 | 15 | 4 | 0 | 0 | 6 | 4 | 14 | 15 | 25 | 13 | 29 |
| 4 | 16% | 25% | 25% | 9% | 23% | 25% | 23% | 6% | 0% | 0% | 9% | 6% | 22% | 23% | 39% | 20% | 459 |
| 5 | 10 | 20 | 11 | 3 | 14 | 28 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 5 | 2 | 5 |
| 5 | 16% | 31% | 17% | 5% | 22% | 44% | 0% | 2% | 0% | 0% | 2% | 0% | 2% | 3% | 8% | 3% | 8% |
| | 64 | | | | | | | | | | | | | | | | |
| Average | 2.56 | 3.61 | 2.88 | 1.91 | 3.11 | 3.92 | 2.48 | 1.92 | 1.47 | 1.39 | 2.17 | 2.02 | 2.25 | 2.33 | 3.00 | 2.48 | 3.1 |
| Std Dev | 1.44 | 1.23 | 1.46 | 1.19 | 1.40 | 1.21 | 1.11 | 1.07 | 0.78 | 0.70 | 1.08 | 1.02 | 1.20 | 1.24 | 1.26 | 1.15 | 1.1 |
| 95% CI | | | 0.359 100% | | | | | | | 0.173 100% | - | - | | | 0.309 100% | | - |
| 1 | 6 | 0 | 5 | 13 | 4 | 2 | 7 | 9 | 22 | 20 | 2 | 8 | 8 | 12 | 8 | 6 | 4 |
| ı | 23% | 0% | 19% | 50% | 15% | 8% | 27% | 35% | 85% | 77% | 8% | 31% | 31% | 46% | 31% | 23% | 159 |
| 2 | 10 | 5 | 6 | 6 | 7 | 7 | 8 | 6 | 2 | 2 | 9 | 11 | 14 | 6 | 7 | 9 | 8 |
| | 38% | 19% | 23% | 23% | 27% | 27% | 31% | 23% | 8% | 8% | 35% | 42% | 54% | 23% | 27% | 35% | 319 |
| 3 | 2 | 5 | 2 | 3 | 6 | 5 | 2 | 6 | 2 | 3 | 9 | 6 | 1 | 6 | 7 | 6 | 6 |
| 3 | 8% | 19% | 8% | 12% | 23% | 19% | 8% | 23% | 8% | 12% | 35% | 23% | 4% | 23% | 27% | 23% | 239 |
| 4 | 6 | 9 | 9 | 3 | 5 | 7 | 7 | 4 | 0 | 1 | 6 | 1 | 2 | 2 | 3 | 4 | 6 |
| 4 | 23% | 35% | 35% | 12% | 19% | 27% | 27% | 15% | 0% | 4% | 23% | 4% | 8% | 8% | 12% | 15% | 239 |
| 5 | 2 | 7 | 4 | 1 | 4 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 2 |
| | 8% | 27% | 15% | 4% | 15% | 19% | 8% | 4% | 0% | 0% | 0% | 0% | 4% | 0% | 4% | 4% | 8% |
| | 26 | | | | | | | | SAME | | | | | | _ | | |
| Average | 2.54 | 3.69 | 3.04 | 1.96 | 2.92 | 3.23 | 2.58 | 2.31 | 1.23 | | 2.73 | 2.00 | 2.00 | 1.92 | 2.31 | 2.42 | 2.7 |
| Std Dev | 1.30 | 1.09 | 1.43 | 1.22 | 1.32 | 1.27 | 1.36 | 1.23 | 0.59 | | 0.92 | 0.85 | 1.02 | 1.02 | 1.16 | 1.14 | 1.2 |
| 95% CI | | | 0.549 | | | | | | | 0.329 | | | | | 0.445 | | |
| | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100 |

| | | | | demo | graphics | | | | | Meyers- | Briggs | |
|---------------------|---|---------------|------------------|-----------------|-----------------------------------------|----------------------------------------|-------------------------------------------|-------------|-----------------------------|---------------------------|-------------------------------|----------------------------|
| | | Design pro | Construction pro | Male | College | Shy | Age | Live USA | Extraversion /Intraversio n | Sensing /Intuiti on | Thinking /Feeling | Judging/ Perceivin g |
| Count % | У | 4 5% | 7 9% | 32 42% | 60 78% | 33 43% | | E | 0 0% | | J | 77 100% |
| Count % | n | 73 95% | 70 91% | 45 58% | 17 22% | 44 57% | | I | 77 100% | | Р | 0 0% |
| | | 100% | 100% | 100% | | 100% | | | 100% | | | 100% |
| ISTJ | | | | | u25 o25 o35 | 4 29 67 | 5% 38% 87% | | S N | 77 100% 0 | | |
| | | | | | o50 | 61 | 79% | | | 0% | | |
| | | | | | never five ten moreten life | 161 0 0 2 13 146 161 | 0.0% 0.0% 3% 17% 190% 209% | | | 100% T | 77 100% 0 0% 100% | |
| Count % Count | у | 2 8% 23 | 1 4% 24 | 14 56% 11 | 16 64% 9 | 8 32% 17 | - | E | 0 0% 25 | | J | 0 0% 25 |
| % | n | 92% | 96% | 44% | 36% | 68% | | I | 100% | | Р | 100% |
| | | 100% | 100% | 100% | 100% | 100% | · • | | 100% | | | 100% |
| ISTP | | | | | u25 o25 o35 o50 | 1 5 8 11 | 4% 20% 32% 44% | | S N | 25 100% 0 0% | | |
| | | | | | | 25 | 100% | | | 100% | | |
| | | | | | never five ten moreten life | 0 0 0 3 22 25 | 0% 0% 0% 12.0% 88% | | | T F | 25 100% 0 0% 100% | |

| | | | | | | | | S | urvey | Result | :S | | | | | | |
|-------------------|----------|---------|----------|-------|-------------|--------------|----------|---------------|----------|----------|----------|-------|-------|---------------|----------|-----------|-----------|
| Rating | F1 | F2 | F3 | F4 | F5 | F6 | I1 | 12 | 13 | 14 | 15 | 16 | P1 | P2 | P3 | P4 | P5 |
| 1 | 20 | 8 | 17 | 34 | 13 | 8 | 13 | 32 | 48 | 54 | 15 | 25 | 35 | 33 | 15 | 21 | 22 |
| ı | 26% | 10% | 22% | 44% | 17% | 10% | 17% | 42% | 62% | 70% | 19% | 32% | 45% | 43% | 19% | 27% | 299 |
| 2 | 35 | 17 | 22 | 27 | 26 | 20 | 14 | 15 | 12 | 7 | 18 | 25 | 24 | 26 | 18 | 32 | 19 |
| | 45% | 22% | 29% | 35% | 34% | 26% | 18% | 19% | 16% | 9% | 23% | 32% | 31% | 34% | 23% | 42% | 259 |
| 3 | 3 | 17 | 10 | 6 | 12 | 13 | 29 | 19 | 15 | 13 | 25 | 17 | 7 | 7 | 13 | 16 | 1C |
| | 4% | 22% | 13% | 8% | 16% | 17% | 38% | 25% | 19% | 17% | 32% | 22% | 9% | 9% | 17% | 21% | 139 |
| 4 | 14 | 16 | 19 | 6 | 16 | 14 | 14 | 7 | 2 | 3 | 16 | 7 | 10 | 11 | 26 | 7 | 19 |
| | 18% | 21% | 25% | 8% | 21% | 18% | 18% | 9% | 3% | 4% | 21% | 9% | 13% | 14% | 34% | 9% | 259 |
| 5 | 5 | 19 | 9 | 4 | 10 | 22 | 7 | 4 | 0 | 0 | 3 | 3 | 1 | 0 | 5 | 1 | 7 |
| | 6% | 25% | 12% | 5% | 13% | 29% | 9% | 5% | 0% | 0% | 4% | 4% | 1% | 0% | 6% | 1% | 9% |
| | 77 | | | | | | | | SAME | | | | | | | | |
| Average | 2.34 | 3.27 | 2.75 | 1.95 | 2.79 | 3.29 | 2.84 | 2.17 | 1.62 | 1.55 | 2.66 | 2.19 | 1.94 | 1.95 | 2.84 | 2.16 | 2.6 |
| Std Dev 95% CI | 1.23 | 1.33 | 1.36 | 1.15 | 1.31 | 1.39 | 1.18 | 1.22 0.272 | 0.89 | 0.91 | 1.13 | 1.11 | 1.09 | 1.05 0.235 | 1.27 | 0.97 | 1.3 |
| 7070 01 | | | | | | | | 100% | | | | • | | | | | |
| 1 | 9 | 3 | 4 | 6 | 3 | 1 | 4 | 9 | 12 | 13 | 8 | 6 | 5 | 11 | 6 | 4 | 3 |
| | 36% | 12% | 16% 8 | 24% | 12% 10 | 4% 5 | 16% 7 | 36% | 48% | 52% | 32% 7 | 24% | 20% | 44% 7 | 24% 7 | 16% 11 | 129 |
| 2 | 6 24% | 1 4% | 32% | 16% | 40% | 20% | 28% | 10 40% | 6 24% | 6 24% | 28% | 36% | 32% | 28% | 28% | 44% | 6 24°, |
| | 24 % | 5 | 5 | 8 | 40% | 3 | 4 | 0 | 3 | 24 % | 3 | 6 | 6 | 0 | 4 | 5 | 4 |
| 3 | 8% | 20% | 20% | 32% | 16% | 12% | 16% | 0% | 12% | 8% | 12% | 24% | 24% | 0% | 16% | 20% | 169 |
| | 5 | 7 | 5 | 4 | 5 | 4 | 7 | 3 | 3 | 3 | 4 | 1 | 5 | 6 | 7 | 4 | 107 1C |
| 4 | 20% | 28% | 20% | 16% | 20% | 16% | 28% | 12% | 12% | 12% | 16% | 4% | 20% | 24% | 28% | 16% | 40° |
| _ | 3 | 9 | 3 | 3 | 3 | 12 | 3 | 3 | 1 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 2 |
| 5 | 12% | 36% | 12% | 12% | 12% | 48% | 12% | 12% | 4% | 4% | 12% | 12% | 4% | 4% | 4% | 4% | 8% |
| | 25 | | | | | | | | SAME | | | | | | | | |
| Average | 2.48 | 3.72 | 2.80 | 2.76 | 2.80 | 3.84 | 2.92 | 2.24 | 2.00 | 1.92 | 2.48 | 2.44 | 2.56 | 2.16 | 2.60 | 2.48 | 3.0 |
| Std Dev | 1.48 | 1.34 | 1.29 | 1.33 | 1.26 | 1.34 | 1.32 | 1.39 | 1.22 | 1.22 | 1.42 | 1.26 | 1.16 | 1.34 | 1.26 | 1.08 | 1.2 |
| 95% CI | 0.578 | 0.525 | 0.506 | 0.522 | 0.493 | 0.527 | 0.518 | 0.546 | 0.48 | 0.479 | 0.556 | 0.494 | 0.454 | 0.527 | 0.493 | 0.425 | 0.47 |
| | 100% | 100% | 100% | | 100% MAX | 100% 3.84 | | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100 |

| | | demographics | | | | | | | Meyers-Briggs | | | |
|------------|---------|--------------|--------------|-----------|-----------------|----------------|-----------|------|----------------|----------|-----------------|------------|
| | | Design | Construction | | | | _ | Live | Extraversion/I | | | Judging/ |
| | user ID | pro | pro | Male | College | Shy | Age | USA | ntraversion | ntuition | Feeling | Perceiving |
| Count | | 3 | 7 | 9 | 33 | 4 | | E | 47 | | J | 16 |
| % | У | 6% | 15% | 19% | 70% | 9% | | E. | 100% | | J | 34% |
| Count | n | 44 | 40 | 38 | 14 | 43 | | - 1 | 0 | | Р | 31 |
| % | | 94% | 85% | 81% | 30% | 91% | | | 0% | | | 66% |
| | | 100% | 100% | 100% | 100% u25 | 100% | 0% | | 100% | 0 | 1 | 100% |
| ENF'S | | | | | o25 | 5 | 11% | | S | 0% | i | |
| LIVI 3 | | | | | 035 | 24 | 51% | | | 47 | | |
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| | | | | | moreten | 4 | 9% | | | ' | 100% | |
| | | | | | life | 42 | 89% | | | | 100% | |
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| % | У | 16% | 12% | 40% | 80% | 0% | | Е | 100% | | J | 44% |
| Count | | 21 | 22 | 15 | 5 | 25 | | | 0 | | _ | 14 |
| % | n | 84% | 88% | 60% | 20% | 100% | | I | 0% | | Р | 56% |
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| ENT'S | | | | | o25 | 3 | 12% | | 3 | 0% | | |
| | | | | | o35 | 9 | 36% | | N | 25 | | |
| | | | | | o50 | 13 | 52% | | ., | 100% |] | |
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| Count | у | 3 | 15 | 21 | 55 | 3 | | E | 75 | | J | 75 |
| % | | 4% | 20% | 28% | 73% | 4% | | | 100% | | - | 100% |
| Count % | n | 72 96% | 60 80% | 54 72% | 20 27% | 72 96% | | 1 | 0 | | Р | 0 |
| /0 | | 100% | 100% | 100% | 100% | 100% |] [| | 100% | ļ | | 100% |
| | | .0070 | .00,0 | | u25 | 3 | 4% | | | 75 |] | .00,0 |
| | | | | | 025 | 15 | 20% | | S | 100% | | |
| ESJ'S | | | | | o35 | 29 | 39% | | N | 0 | 1 | |
| | | | | | o50 | 28 | 37% | | N | 0% | | |
| | | | | | | 75 | 100% | | | 100% | 1 40 | |
| | | | | | never | 0 | 0% | | | Т | 48 | |
| | | | | | five | 0 | 0% | | | | 64% | |
| | | | | | ten | 0 | 0% | | | F | 27 | |
| | | | | | moreten life | 5 70 | 7% 93% | | | | 36% 100% | |
| | | | | | IIIE | 75 | 100% | | | | 10070 | |
| | | | | | | , 0 | 10070 | | | | | |

| | | | | | | | | | Su | rvey | | | | | | | | |
|-------------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------|
| | F1 | F2 | F3 | F4 | F5 | F6 | I1 | 12 | 13 | 14 | 15 | 16 | P1 | P2 | Р3 | P4 | P5 | P6 |
| <u>-</u> | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | SAME | | | | | | | | | |
| Average | 47 2.89 | 3.83 | 3.04 | 2.09 | 3.15 | 3.72 | 2.89 | 1.85 | 1.77 | 1.83 | 2.70 | 2.45 | 2.23 | 2.72 | 2.64 | 2.38 | 2.96 | 2.87 |
| Std Dev | 1.49 | 1.36 | 1.52 0.434 | 1.36 | 1.40 | 1.31 | 1.24 | 1.04 | 1.00 | 1.07 | 1.20 | 1.19 | 1.13 | 1.36 | 1.21 | 1.13 | 1.23 | 1.24 |
| 95% CI | 0.427 | 0.388 | 0.434 | 0.39 | 0.4 | 0.376 | 0.354 | 0.298 | 0.287 | 0.306 | 0.342 | 0.341 | 0.322 | 0.39 | 0.345 | 0.324 | 0.352 | 0.356 |
| | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | |
| | 25 | | | | | | | 1 | | | | | | | | | | |
| Average | 2.32 1.38 | 2.92 1.44 | 2.76 1.36 | 2.76 1.42 | 2.84 | 2.84 | 2.80 1.19 | 1.76 1.09 | 1.64 0.86 | 1.44 0.77 | 2.80 1.08 | 2.32 | 2.08 1.04 | 2.32 1.35 | 2.64 1.15 | 2.08 0.95 | 2.72 | |
| 95% CI | 0.813 | 0.852 | 0.805 | 0.841 | | | 0.703 | 0.645 | 0.508 | 0.454 | 0.638 | 1.35 0.795 | 0.613 | 0.795 | 0.68 | 0.564 | 0.791 | |
| | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
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| | | | | | | | | | | | | | | | | | | |
| | 75 | | | | | | | | | | | | | | | | | |
| Average | 2.48 | 3.48 | 3.08 | 2.19 | 2.95 | 3.73 | | 2.00 | 1.57 | 1.47 | 2.49 | 2.11 | 2.13 | | 2.93 | 2.32 | 2.52 | 2.61 |
| Std Dev 95% CI | 1.41 0.319 | 1.35 0.305 | 1.40 0.317 | 1.41 0.319 | 1.34 0.304 | 1.37 0.31 | 1.27 0.288 | 1.05 0.238 | 0.90 0.204 | 0.78 0.176 | 1.12 0.253 | 1.01 0.228 | 1.18 0.267 | 1.17 0.265 | 1.40 0.316 | 1.09 0.247 | 1.43 0.323 | 0.3 |
| | | | | | | | | | | | | | | | | | | |

| ok | | | | | | | |
|-------------|-----|------------------------------------|--------------------|---------------------|--------------------|------|--------------|
| | | | | | | | |
| | | | | | | | |
| | | ENF'S | FAÇADE | INTERIC |)R | PLAN | |
| ENF'S | | MOST LIKED LEAST LIKED | | | | | 2.96 2.23 |
| % total | 11% | RATIO ML/LL | 1. | 84 | 1.64 | | 1.32 |
| | | | | | | | |
| ok | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | ENT'S | FAÇADE | INTERIC |)R | PLAN | |
| ENT'S | | MOST LIKED LEAST LIKED | 2. | 92 32 | 2.80 1.44 | | 2.72 2.08 |
| % Total | 6% | LEAST LIKED | ۷. | 32 | 1.44 | | 2.00 |
| | 070 | RATIO MI /I I | 1 | 26 | 1 94 | | 1 31 |
| | 070 | RATIO ML/LL | 1. | 26 | 1.94 | | 1.31 |
| | | RATIO ML/LL | 1. | 26 | 1.94 | | 1.31 |
| | | RATIO ML/LL | 1. | 26 | 1.94 | | 1.31 |
| | | RATIO ML/LL | 1. | 26 | 1.94 | | 1.31 |
| Ok | | RATIO ML/LL | | | | | 1.31 |
| ok | | • | FAÇADE 3. | INTERIC 73 |)R 2.75 | PLAN | 2.93 |
| ok ESJ'S | | ESJ'S MOST LIKED LEAST LIKED | FAÇADE 3. 2. | INTERIC 73 19 | DR 2.75 1.47 | PLAN | 2.93 2.13 |
| | | ESJ'S MOST LIKED | FAÇADE 3. 2. | INTERIC 73 19 | DR 2.75 1.47 | PLAN | 2.93 2.13 |

KEIRSEY BATES DATA ANALYSIS

| | | | | | | KLIF | (JLI DA | ILS DAI | A ANALYSIS | | | |
|------------|---------|---------|--------------|----------|------------|-----------|------------|----------|----------------|-------------|-----------|------------|
| | | | | demogra | phics | | , | | | Meyers- | | |
| | user ID | Design | Construction | Male | College | Shy | Age | Live | Extraversion/I | | Thinking/ | Judging/ |
| | | pro | pro | | | , | 3 | USA | ntraversion | ntuition | Feeling | Perceiving |
| Count | | 5 | 3 | 14 | 24 | 18 | | E | 0 | | | 16 |
| % | У | 14% | 8% | 38% | 65% | 49% | | E | 0% | | J | 43% |
| Count | n | 32 | 34 | 23 | 13 | 19 | | 1 | 37 | | Р | 21 |
| % | | 86% | 92% | 62% | 35% | 51% | | | 100% | | | 57% |
| | | 100% | 100% | 100% | 100% | 100% | - | | 100% | • | | 100% |
| | | | | | u25 | 3 | 8% | | S | 0 | | |
| | | | | | 025 | 4 | 11% | | | 0% | | |
| INF'S | | | | | o35 o50 | 11 19 | 30% 51% | | N | 37 100% | | |
| | | | | | 050 | 37 | 100% | | | 100% | J | |
| | | | | | never | 0 | 0% | | | T | 0 | |
| | | | | | five | 0 | 0% | | | - | 0% | |
| | | | | | ten | 0 | 0% | | | F | 21 | |
| | | | | | moreten | 3 | 8% | | | | 57% | |
| | | | | | life | 34 | 92% | | | | 57% | |
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| 0 .1 | | | T 6 | - a - | a : | | | | T - | | | 4.0 |
| Count | У | 2 9% | 8 | 16 | 16 | 11 | | E | 0 | | J | 10 |
| % Count | n | 21 | 35% 15 | 70% 7 | 70% 7 | 48% 12 | | - | 0% 23 | | Р | 43% 13 |
| % | | 91% | 65% | 30% | 30% | 52% | | <u>'</u> | 100% | | Г | 57% |
| ,,, | | 100% | 100% | 100% | 100% | 100% | | | 100% | <u> </u> | <u> </u> | 100% |
| INT'S | | | | | u25 | 1 | 4% | | S | 0 | | |
| | | | | | 025 | 4 | 17% | | | 0% | | |
| | | | | | o35 | 7 | 30% | | N | 23 |] | |
| | | | | | 050 | 10 | 43% | | | 100% | | |
| | | | | | | 22 | 96% | | | 100% | 1 | |
| | | | | | never | 1 | 4% | | | T | 23 | |
| | | | | | five | 1 | 4% | | | | 100% | |
| | | | | | ten | 0 | 0% | | | F | 0 | |
| | | | | | moreten | 2 | 9% | | | | 0% | |
| | | | | | life | 18 22 | 78% 96% | | | | 100% | |
| | | | | | | 22 | 90 /0 | | | | | |
| | | | | | | | | | | | | |
| Count | У | 6 | 23 | 43 | 101 | 57 | | E | 0 | | J | 141 |
| % | | 4% | 16% | 30% | 72% | 40% | | | 0% | | | 100% |
| Count | n | 135 | 118 | 98 | 40 | 84 | | I | 141 | | Р | 0 |
| % | | 96% | 84% | 70% | | 60% | ı l | | 100% | | | 0% |
| | | 100% | 100% | 100% | 100% | 100% | 201 | | 100% | 1.44 | 1 | 100% |
| ISJ'S | | | | | u25 o25 | 3 16 | 2% 11% | | S | 141 100% | | |
| 1313 | | | | | 025 | 43 | 30% | | N | 0 | | |
| | | | | | 050 | 79 | 56% | | 14 | 0% | 1 | |
| | | | | | | 141 | 100% | | | 100% | | |
| | | | | | never | 0 | 0% | | | Т | 77 | |
| | | | | | five | 0 | 0% | | | | 55% | |
| | | | | | ten | 0 | 0% | | | F | 64 | |
| | | | | | moreten | 6 | 4.3% | | | | 45% | |
| | | | | | life | 135 | 96% | | | | 100% | |
| | | | | | | | | | | | | |

| | | | | | | | | | Sui | rvey | | | | | | | | |
|----------------------------------|------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | F1 | F2 | F3 | F4 | F5 | F6 | I1 | 12 | 13 | 14 | 15 | 16 | P1 | P2 | Р3 | P4 | P5 | P6 |
| 1 2 3 4 5 5 Average | 37 2.65 | 3.54 | 2.54 | 2.16 | 2.86 | 3.35 | 2.57 | 2.05 | 1.62 | 1.51 | 2.22 | 1.95 | 2.46 | 2.19 | 2.92 | 2.35 | 3.16 | 2.57 |
| Std Dev 95% CI | 1.55 | 1.41 | 1.32 | 1.26 | 1.32 | 1.42 | 1.26 | 0.94 0.303 | 0.86 0.278 | 0.96 0.31 | 1.20 | 1.25 | 1.17 | 1.31 | 1.21 | | 1.38 0.446 | 1.17 |
| 1 2 3 4 5 Average Std Dev 95% CI | 1.34 | 1.27 | 1.53 | 1.55 | 1.10 | 1.36 | 1.33 | 1.96 1.07 0.435 | 0.79 | 1.87 1.29 0.527 | 2.91 1.24 0.507 | | 1.24 | 1.27 | 3.26 1.18 0.481 | 1.12 | 2.78 1.35 0.55 | 2.35 1.19 0.487 |
| | | | | | | | | | | | | | | | | | | |
| | 141 | | | | | | | | | | | | | | | | | |
| Average Std Dev 95% CI | 1.33 | 3.43 1.29 0.214 | 2.81 1.40 0.232 | 1.93 1.16 0.192 | 2.94 1.36 0.224 | 3.57 1.35 0.223 | 2.68 1.16 0.192 | 2.06 1.16 0.191 | 1.55 0.84 0.139 | 1.48 0.82 0.136 | 2.44 1.13 0.187 | 2.11 1.07 0.177 | 2.08 1.15 0.189 | 2.12 1.15 0.19 | 2.91 1.26 0.208 | 2.30 1.07 0.176 | 2.85 1.31 0.217 | 2.77 1.23 0.203 |

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|------------------|----|------------------------------------------------------|----------------------------------------|----------------------------------------------|--------------------------|--------------------------------------------------|
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| | | | | | | |
| | | INITIC | FACADE | INTERIOR | DI ANI | |
| | | INF'S | | | | |
| | | MOST LIKED LEAST LIKED | 3.54 2.16 | | 7 1 | 3.16 2.19 |
| INF'S | | RATIO ML/LL | 1.64 | 1.70 | n | 1.44 |
| % Total | 8% | INATTO WIL/EL | 1.04 | 1.7 | 5 | 1.44 |
| | | | | | | |
| | | 1 | | | | |
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| | | | | | | |
| | | INT'S | FAÇADE | INTERIOR | PLAN | |
| INT'S | | INT'S MOST LIKED | | | | 3.26 |
| INT'S % Total | 5% | | | 5 2.9 | 1 | 3.26 2.35 |
| | 5% | MOST LIKED | 3.65 2.48 | 5 2.9 | 1 8 | |
| | 5% | MOST LIKED LEAST LIKED | 3.65 2.48 | 5 2.9 3 1.4 | 1 8 | 2.35 |
| | 5% | MOST LIKED LEAST LIKED | 3.65 2.48 | 5 2.9 3 1.4 | 1 8 | 2.35 |
| | 5% | MOST LIKED LEAST LIKED | 3.65 2.48 | 5 2.9 3 1.4 | 1 8 | 2.35 |
| | 5% | MOST LIKED LEAST LIKED | 3.65 2.48 | 5 2.9 3 1.4 | 1 8 | 2.35 |
| | 5% | MOST LIKED LEAST LIKED | 3.65 2.48 | 5 2.9 3 1.4 | 1 8 | 2.35 |
| % Total | 5% | MOST LIKED LEAST LIKED | 3.65 2.48 | 5 2.9 3 1.4 | 1 8 | 2.35 |
| % Total | 5% | MOST LIKED LEAST LIKED | 3.65 2.48 | 5 2.9 3 1.4 | 1 8 | 2.35 |
| % Total | 5% | MOST LIKED LEAST LIKED RATIO ML/LL ISJ'S MOST LIKED | 3.65 2.48 1.47 FAÇADE 3.57 | 5 2.9 3 1.4 7 1.9 INTERIOR 7 2.6 | 1 8 7 PLAN 8 | 2.351.392.91 |
| % Total | 5% | MOST LIKED LEAST LIKED RATIO ML/LL | 3.65 2.48 1.47 | INTERIOR 7 2.66 | 1 8 7 PLAN 8 | 2.35 |

KEIRSEY BATES DATA ANALYSIS

| | | | | | | IXEII. | OLI DA | TES DITT | A ANALISIS | | | |
|-------|---------|---------------|------------------|---------|---------|--------|--------|-------------|----------------------------|--------------------|----------------------|------------------------|
| | | | | demogra | phics | | | | | Meyers- | Briggs | |
| | user ID | Design pro | Construction pro | Male | College | Shy | Age | Live USA | Extraversion/I ntraversion | Sensing/I ntuition | Thinking/ Feeling | Judging/ Perceiving |
| | | | | | | 141 | 100% | | | | | |
| Count | У | 2 | 4 | 22 | 32 | 20 | | E | 0 | | J | 0 |
| % | | 4% | 8% | 43% | 63% | 39% | | | 0% | | | 0% |
| Count | n | 49 | 47 | 29 | 19 | 31 | | I | 51 |] | Р | 51 |
| % | | 96% | 92% | 57% | 37% | 61% | | | 100% |] [| | 100% |
| | | 100% | 100% | 100% | 100% | 100% | 1 | | 100% | , | | 100% |
| | | | | | u25 | 3 | 6% | | S | 51 | | |
| ISJ'S | | | | | o25 | 6 | 12% | | | 100% | | |
| | | | | | o35 | 17 | 33% | | N | 0 | | |
| | | | | | o50 | 25 | 49% | | | 0% | | |
| | | | | | | 51 | 100% | | | 100% | | |
| | | | | | never | 0 | 0% | | | Т | 25 | |
| | | | | | five | 0 | 0% | | | | 49% | |
| | | | | | ten | 0 | 0% | | | F | 26 | |
| | | | | | moreten | 4 | 8% | | | | 51% | |
| | | | | | life | 47 | 92% | | | | 100% | |
| | | | | | | 51 | 100% | | | | | |
| Count | У | 1 | 13 | 9 | 28 | 1 | | E | 43 |] | J | 0 |
| % | | 2% | 30% | 21% | 65% | 2% | | | 100% | | | 0% |
| Count | n | 42 | 30 | 34 | 15 | 42 | | ı | 0 | | Р | 43 |
| % | | 98% | 70% | 79% | 35% | 98% | | | 0% |] | | 100% |
| | | 100% | 100% | 100% | 100% | 100% | 1 | | 100% | 1 1 | | 100% |
| | | | | | u25 | 2 | 5% | | S | 43 | | |
| ESP'S | | | | | o25 | 8 | 19% | | | 100% | | |
| | | | | | 035 | 18 | 42% | | N | 0 | | |
| | | | | | o50 | 15 | 35% | | | 0% | | |
| | | | | | | 43 | 100% | | | 100% | 47 | |
| | | | | | never | 0 | 0% | | | Т | 17 | |
| | | | | | five | 0 | 0% | | | | 40% | |
| | | | | | ten | 0 | 0% | | | F | 26 | |
| | | | | | moreten | 4 | 9% | | | | 60% | |
| | | | | | life | 39 | 91% | | | | 100% | |
| | | | | | | 43 | 100% | | | | | |

KEIRSEY BATES DATA ANALYSIS

| | | | | | | | | | Sui | rvey | | | | | | | | |
|-------------------|-------|-------|---------------|-------|----------|-------|-------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|-------|
| | F1 | F2 | F3 | F4 | F5 | F6 | I1 | 12 | 13 | 14 | 15 | 16 | P1 | P2 | Р3 | P4 | P5 | P6 |
| | | | ı | | <u> </u> | | | ı | | | | | | | | | | |
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| | 51 | | | | | | | | | | | | | | | | | |
| Average | | 3.71 | 2.92 | 2.35 | 2.86 | 3.53 | 2.86 | 2.27 | 1.61 | 1.65 | 2.61 | 2.31 | 2.27 | 2.04 | 2.45 | 2.45 | 2.92 | 2.61 |
| Std Dev 95% CI | | 1.20 | 1.35 0.372 | 1.32 | 1.28 | 1.33 | 1.31 | 1.30 0.356 | 1.02 | 1.05 | 1.18 | 1.10 | 1.11 | 1.18 | | 1.10 | 1.21 0.333 | 1.10 |
| 95% CI | 0.378 | 0.331 | 0.372 | 0.363 | 0.352 | 0.300 | 0.36 | 0.356 | 0.28 | 0.29 | 0.325 | 0.303 | 0.306 | 0.325 | 0.331 | 0.302 | 0.333 | 0.301 |
| | | | | | | | | | | | | | | | | | | |
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| | 43 | | | | | | | | | | | | | | | | | |
| Average | | 4.21 | 3.12 | 1.95 | 3.00 | 3.93 | 2.81 | 2.09 | 1.60 | 1.65 | 2.70 | 2.58 | 2.53 | 2.40 | 3.12 | 2.49 | 2.91 | 2.70 |
| Std Dev | | 1.10 | 1.40 | 1.13 | 1.25 | 1.30 | 1.12 | | 0.93 | 1.02 | 1.12 | 1.20 | 1.26 | 1.20 | 1.20 | 1.14 | | 1.21 |
| 95% CI | 0.414 | 0.33 | 0.419 | 0.339 | 0.375 | 0.388 | 0.334 | 0.338 | 0.278 | 0.305 | 0.336 | 0.359 | 0.377 | 0.358 | 0.358 | 0.341 | 0.412 | 0.36 |
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| ok | | | | | |
| | | | | | |
| | | ISP'S | FAÇADE | INTERIOR | PLAN |
| ISP'S | | MOST LIKED | 3.71 | 2.86 | 2.92 |
| % Total | 12% | LEAST LIKED | 2.35 | 1.61 | 2.04 |
| % 10tai | 12% | RATIO ML/LL | 1.58 | 1.78 | 1.43 |
| | | 1 | | | |
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| ok | | | | | |
| | | ESP'S | EACADE | INTERIOR | DLAN |
| | | ESF S | FAÇADE | INTERIOR | PLAIN |
| ESP'S | | MOST LIKED | 4.21 | | |
| % Total | 10% | LEAST LIKED | 1.95 | 1.60 | 2.40 |
| , o . otal | . 3 70 | RATIO ML/LL | 2.15 | 1.75 | 1.30 |
| | 100% | 4 | | | |

CONFIDENCE INTERVAL DATA

REV 2

| | | | | | | | | | | | | | | | | | | | | # |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|---------|
| | F1 | F2 | F3 | F4 | F5 | F6 | 11 | 12 | 13 | 14 | 15 | 16 | P1 | P2 | P3 | P4 | P5 | P6 | SUM | SAMPLES |
| GENERAL | 0.13 | 0.12 | 0.13 | 0.12 | 0.12 | 0.13 | 0.11 | 0.10 | 0.08 | 0.09 | 0.11 | 0.11 | 0.11 | 0.11 | 0.12 | 0.10 | 0.12 | 0.11 | 2.04 | 442 |
| INT | 0.55 | 0.52 | 0.62 | 0.63 | 0.45 | 0.56 | 0.54 | 0.44 | 0.32 | 0.53 | 0.51 | 0.53 | 0.51 | 0.52 | 0.48 | 0.46 | 0.55 | 0.49 | 9.19 | 23 |
| ESP | 0.41 | 0.33 | 0.42 | 0.34 | 0.37 | 0.39 | 0.33 | 0.34 | 0.28 | 0.31 | 0.34 | 0.36 | 0.38 | 0.36 | 0.36 | 0.34 | 0.41 | 0.36 | 6.42 | 43 |
| ESJ | 0.32 | 0.31 | 0.32 | 0.32 | 0.30 | 0.31 | 0.29 | 0.24 | 0.20 | 0.18 | 0.25 | 0.23 | 0.27 | 0.26 | 0.32 | 0.25 | 0.32 | 0.30 | 4.98 | 75 |
| ISJ | 0.22 | 0.21 | 0.23 | 0.19 | 0.22 | 0.22 | 0.19 | 0.19 | 0.14 | 0.14 | 0.19 | 0.18 | 0.19 | 0.19 | 0.21 | 0.18 | 0.22 | 0.20 | 3.51 | 141 |
| ISP | 0.38 | 0.33 | 0.37 | 0.36 | 0.35 | 0.37 | 0.36 | 0.36 | 0.28 | 0.29 | 0.33 | 0.30 | 0.31 | 0.32 | 0.33 | 0.30 | 0.33 | 0.30 | 5.97 | 51 |
| ENF | 0.43 | 0.39 | 0.43 | 0.39 | 0.40 | 0.38 | 0.35 | 0.30 | 0.29 | 0.31 | 0.34 | 0.34 | 0.32 | 0.39 | 0.34 | 0.32 | 0.35 | 0.36 | 6.43 | 47 |
| INF | 0.50 | 0.45 | 0.43 | 0.41 | 0.42 | 0.46 | 0.41 | 0.30 | 0.28 | 0.31 | 0.39 | 0.40 | 0.38 | 0.42 | 0.39 | 0.31 | 0.45 | 0.38 | 7.07 | 37 |
| ENT | 0.81 | 0.85 | 0.81 | 0.84 | 0.78 | 0.85 | 0.70 | 0.64 | 0.51 | 0.45 | 0.64 | 0.80 | 0.61 | 0.80 | 0.68 | 0.56 | 0.79 | 0.78 | 12.90 | 25 |
| | | | | | | | | | | | | | | | | | | | | 442 |

CI IS NARROW AND CHOICE IS MOST PREFERRED
CI IS NARROW AND CHOICE IS LEAST PREFERRED

| | F1 | F2 | F3 | F4 | F5 | F6 | I1 | 12 | 13 | 14 | 15 | 16 | P1 | P2 | Р3 | P4 | P5 | P6 | | |
|----------------|-------------|---------------|-------|-------|----------------|---------------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 67% | 298 | FEMAL | .ES | | | | | | | | | | | | | | | | | |
| Average | 2.55 | 3.57 | 3.04 | 2.01 | 3.06 | 3.77 | 2.63 | 1.89 | 1.45 | 1.48 | 2.48 | 2.08 | 2.23 | 2.38 | 2.84 | 2.35 | 2.84 | 2.73 | % total | 67% |
| Std Dev | 1.45 | 1.34 | 1.37 | 1.27 | 1.37 | 1.31 | 1.20 | 1.07 | 0.77 | 0.85 | 1.16 | 1.14 | 1.17 | 1.26 | 1.30 | 1.05 | 1.34 | 1.23 | | |
| 95% CI | 0.164 | 0.152 | 0.155 | 0.144 | 0.156 | 0.149 | 0.137 | 0.121 | 0.088 | 0.096 | 0.132 | 0.129 | 0.133 | 0.143 | 0.147 | 0.12 | 0.152 | 0.14 | | |
| General | | | | | | | | | | | | | | | | | | | 1 | |
| Average | | hi | | lo | | | hi | | lo | | | | lo | lo | hi | | hi | | | |
| 33% Average | 144 2.53 | MALES | 2.58 | 2.44 | 2.68 | 3.12 | 2.76 | 2.28 | 1.78 | 1.72 | 2.52 | 2.27 | 2.22 | 2.01 | 2.90 | 2.35 | 2.83 | 2.56 | % total | 33% |
| Std Dev | 1.27 | 1.28 | 1.45 | 1.33 | 1.16 | 1.39 | 1.28 | 1.16 | 0.98 | 1.03 | 1.14 | 1.06 | 1.15 | 1.12 | 1.19 | 1.12 | 1.32 | 1.22 | | |
| 95% CI | 0.208 | 0.209 | - | - | - | - | | | 0.159 | 0.169 | 0.186 | 0.173 | 0.188 | 0.182 | 0.194 | 0.183 | 0.215 | 0.199 | | |
| | - | | | | | EFER | | <u>S</u> | • | | | | | | | | | | | |
| | | | FAÇAD | | INTER | _ | PLAN | | | | | | | | | | | | | |
| | N // A | LES | ML | LL | ML | LL | ML | LL | | | | | | | | | | | | |
| | | LE3 3% | F2 | F4 | 11 | 14 | P2 | P3 | | | | | | | | | | | | |
| | | ALES | - | | | | | . 0 | | | | | | | | | | | | |
| | 67 | 1% | F6 | F4 | 11 | 13 | P3/P5 | P1 | | | | | | | | | | | | |
| | | neral rage | F2/F6 | _ | I1 ent from | I4 n gener | P3/P5 | P1/P2 | | | | | | | | | | | | |

| | F1 | F2 | F3 | F4 | F5 | F6 | I1 | 12 | 13 | 14 | 15 | 16 | P1 | P2 | Р3 | P4 | P5 | P6 | |
|---------|------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|----------|-------|-------|----------|-------|------------------------------------|
| | 67 | l . | l | l | | l | | | l | <u>l</u> | l | l | | <u>l</u> | l | | <u>l</u> | l . | |
| Average | 2.85 | 3.74 | 2.94 | 2.08 | 2.89 | 3.70 | 2.83 | 2.03 | 1.41 | 1.61 | 2.62 | 2.02 | 2.21 | 2.35 | 2.83 | 2.41 | 2.61 | 2.36 | CONSTRUCTION PROFESSIONALS |
| Std Dev | 1.46 | 1.32 | 1.41 | 1.33 | 1.20 | 1.23 | 0.99 | 1.01 | 0.72 | 0.97 | 1.03 | 0.95 | 1.14 | 1.21 | 1.20 | 0.94 | 1.32 | 1.09 | |
| 95% CI | 0.35 | 0.315 | 0.338 | 0.318 | 0.288 | 0.294 | 0.236 | 0.241 | 0.173 | 0.233 | 0.248 | 0.228 | 0.274 | 0.289 | 0.287 | 0.226 | 0.317 | 0.261 | |
| | 17 | | | | | | | | | | | | | | | | | | |
| Average | 2.41 | 3.29 | 2.41 | 2.29 | 2.29 | 2.88 | 2.18 | 1.82 | 1.88 | 1.59 | 1.88 | 1.71 | 2.12 | 2.29 | 2.53 | 2.35 | 3.12 | 2.47 | DESIGN PROFFESSIONALS |
| Std Dev | 1.33 | 1.36 | 1.12 | 1.10 | 1.26 | 1.45 | 1.24 | 1.07 | 0.93 | 1.00 | 1.05 | 1.10 | 1.05 | 1.16 | 1.37 | 1.11 | 1.41 | 1.33 | |
| 95% CI | 0.63 | 0.646 | 0.533 | 0.525 | 0.6 | 0.691 | 0.588 | 0.511 | 0.441 | 0.477 | 0.501 | 0.525 | 0.501 | 0.551 | 0.653 | 0.53 | 0.67 | 0.631 | |
| | 9 | | | | | | | | | | | | | | | | | | |
| Average | 3.33 | 3.89 | 2.11 | 2.67 | 2.44 | 3.22 | 3.22 | 1.89 | 2.00 | 1.78 | 2.78 | 2.33 | 2.33 | 2.44 | 3.89 | 2.44 | 3.44 | 2.67 | BOTH DESIGN AND CONSTRUCTION PROFF |
| Std Dev | 1.12 | | 1.45 | | | | | 0.93 | | | 1.56 | 1.22 | 1.32 | 1.24 | 1.45 | 1.13 | | 1.41 | |
| 95% CI | 0.73 | 0.762 | 0.949 | 1.033 | 0.576 | 1.021 | 0.911 | 0.606 | 0.73 | 0.714 | 1.021 | 0.8 | 0.864 | 0.808 | 0.949 | 0.739 | 1.089 | 0.924 | |

| | PRE | PR(| | COM | | о то | | | | | |
|------------------|-------|-------|----|------|---------------|-------|--|--|--|--|--|
| | FAC | ADE | | AGES | PLAN ML LL | | | | | | |
| | ML | LL | ML | LL | ML | LL | | | | | |
| DESIGN | | | | | | | | | | | |
| PROFESSI ONALS | F2 | F4 | 11 | 13 | Р3 | P1 | | | | | |
| CONSTRUCTION | | | | , | | | | | | | |
| PROFESSI ONALS | F2 | F4/F5 | 11 | 14 | P5 | P1 | | | | | |
| BOTH DESIGN AND | | | | | | | | | | | |
| CONST | F2 | F3 | 11 | 14 | Р3 | P1 | | | | | |
| general averages | f2/f6 | f4 | i1 | i4 | p3/p5 | p1/p2 | | | | | |

Differs from averages





Research Compliance Office

MEMORANDUM

Kristyn Clayton

Ö

Interdisciplinary Design Institute, Spokane (3899)

FROM: Malathi Jandhyala (for) Kris Miller, Chair, WSU Institutional Review Board (3140) $\,\,$ $\,$

DATE: 7 March 2007

SUBJECT: Approved Continuing Review of Human Subjects - Continuing Review

participating in the study. Based on the information received from you, the IRB has given approval to continue your human subjects protocol for another year starting 6 March 2007. The information provided for the continuing review of your protocol titled "Thesis for Masters of Science in Architecture." IRB Number 9015-b was reviewed for the protection of the subjects

The IRB approval indicates that the study protocol as presented in the Human Subjects Form by the investigator, is designed to adequately protect the subjects participating in the study. This approval does not relieve the investigator from the responsibility of providing continuing attention to ethical considerations involved in the utilization of human subjects participating in the study.

protocol you must notify the IRB and receive approval before implementation This approval expires on 4 March 2008. If any significant changes are anticipated to the study

completion of the research. In accordance with federal regulations, this approval letter and a copy of the approved protocol must be kept with any copies of signed consent forms by the researcher for THREE years after

Health and Human Services Regulations Regarding the Use of Human Subjects can by reviewed on OGRD's homepage (http://www.ogrd.wsu.edu/) under "Electronic Forms," OGRD Memorandum #6. Office for Human Research Protections. WSU's Assurance of Compliance with the Department of This institution has a Human Subjects Assurance Number FWA00002946 which is on file with the

sent by email attachment, please make sure they are in a standard file type, (i.e., ASCII text [.txt], or If you have questions, please contact the Insitutional Review Board at Research Compliance Office at (509) 335-9661. Any revised materials can be mailed to Research Compliance Office (Campus Zip 3140), faxed to (509) 335-1676, or in some cases by electronic mail, to *irb@wsu.edu*. If materials are Rich Text Format [.rtf])..

Review Type: REN
Review Category: XMT
Date Received: 5 February 2007

OGRD No.: NF Agency: NA