

What Makes San Francisco Beautiful? Discovering Beauty in Our Surroundings and in Ourselves

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PREFACE

CitiesBeautiful.org is dedicated to helping everyone learn more about civic beauty, and subsequently having more beautiful experiences. A key contribution is the identification of "common threads" in the theories of beauty of authors from the Ancient Greeks to the present. *What Makes San Francisco Beautiful?* Is an e-book that both summarizes this historic analysis and shows how the analysis results can be applied to helping everyone to appreciate civic beauty more deeply.

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1. INTRODUCTION

Herb Caen, the beloved columnist of the San Francisco Chronicle for half a century, remarked the year before he died:

"One day if I do go to heaven, I'm going to do what every San Franciscan does who goes to heaven. I'll look around and say, 'It ain't bad, but it ain't San Francisco."

San Francisco is well deserving of its nickname, "Everybody's Favorite City", but what makes San Francisco beautiful to each of us? How can we ensure that we are enjoying San Francisco's beauty to the fullest? Moreover, could some of what we find beautiful about San Francisco also be recognized and appreciated in other cities around the world, including in our home towns? At a deeper level, what do our individual concepts of beauty reveal about our perceptions, our motivations, even our priorities in life?

The answers to these questions are far more profound than most people realize. Dr. Ethel Puffer Howes, professor of aesthetics at Wellesley, Smith and Simmons Colleges in the early Twentieth Century, wrote in her landmark book *The Psychology of Beauty* (Houghton Mifflin, 1905):

"I believe the way is at last opened from the traditional philosophy of aesthetics to a healthy and concrete psychological theory...The beautiful object possesses those qualities which bring the personality into a state of unity and self-completeness."

Stated differently, <u>we say "Beautiful!" when we experience a spontaneous and deeply appreciative connection</u> between our true selves and our surroundings. Beautiful experiences are not passive; they are participatory – physically, emotionally, intellectually, and soulfully.

And the goal of this e-book is to provide you with tools to investigate and recognize your personal mind-set toward beauty civic.

We will proceed in four steps:

- Familiarize ourselves with...
 - o the history of the theories of civic beauty, from Ancient Greeks to the present,
 - o the anatomy of the human brain, and
 - the relevant works of behavioral psychologists.
- Identify "common threads" that run through the above three disciplines, in order to...
 - o assimilate all into a single "Beautiful Schema", and
 - o give names to each of those threads, that is, a "Beautiful Glossary" a.k.a. the "Beautiful Facets".
- Demonstrate empirically the validity of the Beautiful Schema and Beautiful Facets toward answering the guestion "What Makes San Francisco Beautiful?"
- Transform the Beautiful Schema and Beautiful Facets into an interactive, personalized test (somewhat like an occupational aptitude test) that *you* can take online at Cities.Beautiful.org to determine which of the common threads resonate the most with *you* since indeed "beauty is in the eye of the beholder."

At the end of this process you will be able to apply your new-found knowledge about what is <u>beautiful to you</u> when exploring the beautiful features of not just San Francisco but all other cities worldwide as well. The CitiesBeautiful.org website will assist you in your endeavors.

2. HISTORY OF THE THEORIES OF CIVIC BEAUTY

Exhibit 1 on the next page lists the aesthetic philosophers, architects, city planners, psychologists and other important individuals from whose writings the "common threads" have been derived. These individuals are referenced in the next

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section of this document, during the development of the Beautiful Schema. A brief biography of each is available in Addendum I.

	EXHIBIT 1
YEAR	AUTHOR
569 – 475 BC	Pythagoras, Greek Philosopher
427 – 347 BC	Plato, Greek Philosopher
384 – 322 BC	Aristotle, Greek Philosopher
70(?) – 25 BC	Marcus Vitruvius Pollio, Roman Engineer and Architect
1225 – 1274	Thomas Aquinas, Italian Theologian and Philosopher
1694 – 1746	Francis Hutcheson, British Philosopher
1697 – 1764	William Hogarth, English Painter and Printmaker
1711 – 1776	David Hume, Scottish Philosopher
1724 – 1804	Immanuel Kant, German Philosopher
1754 – 1825	Pierre Charles L'Enfant, French and American Architect and Civil Engineer
1770 – 1831	Georg Wilhelm Friedrich Hegel, German Philosopher
1795 – 1821	John Keats, English Poet
1803 – 1882	Ralph Waldo Emerson, American Essayist, Lecturer, and Poet
1842 – 1910	William James, American Philosopher, Psychologist and Academic
1843 – 1903	Camillo Sitte, Austrian Architect, Art Historian, and City Planning Theoretician
1846 – 1912	Daniel Burnham, American Architect and City Planner
1850 – 1928	Ebenezer Howard, British City Planner
1856 – 1924	Louis Sullivan, American Architect
1859 – 1952	John Dewey, America Philosopher, Psychologist and Academic
1865 – 1944	Robert Park, America Sociologist and Academic
1867 – 1959	Frank Lloyd Wright, American Architect and City Planner
1872 – 1950	Ethel Puffer Howes, American Philosopher, Psychologist and Academic
1887 – 1965	Le Corbusier (aka Charles-Édouard Jeanneret), Swiss Architect and City Planner
1895 – 1990	Lewis Mumford, American Historian, Sociologist and Literary Critic
1897 – 1952	Louis Wirth, American Sociologist
1908 – 1970	Abraham Maslow, American Psychologist and Academic
1909 – 2000	James Marston Fitch, American Architect, Preservationist and Academic
1910 – 2005	Edmund Bacon, American City Planner
1913 – 2007	Paul MacLean, American Physician and Neurologist
1916 – 2006	Jane Jacobs, American City Planning Activist
1918 – 1984	Kevin Lynch, American City Planner and Academic
1928 – 2008	Ronald Hepburn, Scottish Philosopher and Academic
1935 – 2004	Oscar Newman, American Architect and City Planner
1940 –	Clayton Alderfer, American Psychologist and Academic
1941 –	Peter Neill, American Preservationist and Academic
1951 –	Eugene Mathes, American Psychologist and Academic
1960 –	Steven Schloeder, American Theologian and Architect
1960 –	Virginia Postrel, American Journalist
1968 –	Jennifer McMahon, Australian Philosopher and Academic
1969 –	Alain De Botton, Swiss/British Architect and Philosopher

Note that all the above commentators are from the Western *a.k.a.* Occidental traditions. At present CitiesBeauiful.org does not specifically include Eastern *a.k.a.* Oriental traditions. However, Addendum II provides insights into how Eastern/Oriental perspectives fit into the Beautiful Schema and Beautiful Facets presented later in this document.

3. DEVELOPMENT OF THE BEAUTIFUL SCHEMA AND BEAUTIFUL FACETS

As will be explicated during this section, the Beautiful Schema consists of a matrix which brings together three critical sets of factors which allow us to define that which is beautiful:

 The observations of acclaimed philosophers, architects, city planners, etc., over the last 2,600 years – that is, the above list of 40 authors.

- The anatomy of the human brain, providing the biological context for perceiving beauty; and
- The theories of leading behavioral psychologists, who lie at the cross roads of brain and intellect.

Each of these three sets of inputs is explored below, after which all three are combined in the Beautiful Schema. As will be shown, the Beautiful Schema results in 15 Beautiful Facets – that is, 15 categories of civic beauty.

Observations Of Acclaimed Philosophers, Architects, City Planners, Etc.

The above 40 aesthetes, architects, planners, psychologists, etc., from Pythagoras to the present, offer a very broad spectrum of theories on the nature of beauty generally and civic beauty specifically. Nevertheless, a number of universal truths concerning beauty -- reoccurring themes, shared attributes, congruent characteristics -- can be identified in those theories, despite the vast differences in times and places, cultures, professions, and so on, of their authors.

The following are eight beautiful universal truths that have been identified, together with supporting evidence drawn from the writings of the 40 authors. Note that the selected excerpts do not constitute all the available evidence, but rather are exemplary for purposes of "connecting the dots."

Beauty Is ... Divinity, Perfection, Truth

The concept of beauty has long been associated with religion. In Italy in the 13th century, for example, Saint Thomas Aquinas observed in his *Summa Theologiae*¹ that beauty is not found in biological pleasures, but rather is a characteristic of the divine which we can find on earth. Six hundred years later the American poet and philosopher Ralph Waldo Emerson wrote: "Never lose an opportunity of seeing anything that is beautiful; for beauty is God's handwriting – a wayside sacrament. Welcome it in every fair face, in every fair sky, in every fair flower, and thank God for it as a cup of blessing."

Further, the concept has long been more complicated than simply that God equals beauty. In Ancient Greece approximately 2,300 years ago, Plato wrote in the *Symposium*² about "The Beautiful" – the unchanging and divine form of beauty that we cannot perceive with our senses but can aspire to discover with our intellect. True beauty for Plato was not just a matter of faith, but something that can be discovered through disciplined training of the mind.

Not incidentally, Plato deserves credit as the source of the adage "Beauty is in the eye of the beholder." The adage paraphrases this quote from the *Symposium:* "Remember how in that communion only, beholding beauty with the eye of the mind, he will be enabled to bring forth, not images of beauty, but realities (for he has hold not of an image but of a reality), and bringing forth and nourishing true virtue to become the friend of God and be immortal, if mortal man may."

In Germany in the 18th century, Georg Wilhelm Friedrich Hegel embraced a Plato-like view that self-knowledge develops by stages over time, but also believed that the development of the human mind – including art -- is inconceivable without religion. His contemporary, Friedrich Wilhelm Joseph von Schelling, put forth the concept of the Absolute Idealism, in which beauty marks the interface between Self and Nature (the Universe). Hegel and Schelling were adding an introspective viewpoint which might be phrased: "How do I find within me the beauty that is the Universe?"

In the 19th century the English poet John Keats, again with an introspective viewpoint but focusing more on this world than the next, wrote two of the most well-known lines in English literature in his *Ode on a Grecian Urn:*

"Beauty is truth, truth beauty – that is all Ye know on earth, and all ye need to know."

The transcendent nature of beauty is of course a topic still discussed today. In recent years, architect and author Steven J. Schloeder has defined architecture as "...the fine art of designing buildings for both the body and soul...a building which not only houses and protects and accommodates the body, our physicality, but one that is intended to nourish our soul with meaning, symbolic content, and beauty."³

Our first beautiful universal truth, then, is that beauty signifies an ideal transcending reality, an ideal frequently associated with spirituality, an ideal within our abilities to pursue on earth.

Beauty Is ... Fitness, Purposiveness, Form Follows Function

"The Beautiful" for Plato was unchanging, an absolute. Though a student of Plato's, Aristotle perceived beauty not to be an absolute but instead relativistic, varying with the object. For example, in the *Rhetoric*⁴ Aristotle maintains that a man's beauty changes in meaning as he grows older and takes on different functions: the beautiful young man is a competitive athlete; the beautiful man of middle age is a fearsome warrior; and the beautiful old man is undiminished by age. Aristotle was thus one of the first commentators to say of beauty that "it depends."

Another was William Hogarth, the 17th century English painter, printmaker, and author of *The Analysis of Beauty*⁵. In his book Hogarth identifies one of the fundamental artistic and aesthetic principles to be "Fitness." He uses this example: "The race-horse, having all its parts of such dimensions as best fit the purposes of speed, acquires on that account a consistent character of one sort of beauty. To illustrate this, suppose the beautiful head and gracefully-turn'd neck of the war-horse were placed on the shoulders of the race-horse, instead of his own awkward straight one: it would disgust, and deform, instead of adding beauty."

Innumerable other observers have commented on how beautifully adapted are the shapes of plants, animals and other components of the natural environment for fulfilling their everyday purposes. Objects beautifully adapted to their purpose can be found in the manmade world as well. The phrase "form follows function" comes from Louis Sullivan, a major figure in the Chicago School of architecture in the late 19th century and mentor to Frank Lloyd Wright. His design creed first appeared in his 1896 essay *The Tall Office Building Artistically Considered*.

Similarly, Le Corbusier, arguably the dominant architect of the 20th century, asserted: "A house is a machine for living in...An armchair is a machine for sitting in, and so on." ⁶ Le Corbusier eschewed ornamentation of any kind, pursuing instead the true nature of any object. Architecturally, true forms were functional geometric shapes.

Thus our second beautiful universal truth is that of beauty emanating from the congruence of an object's physical state and its *raison d'etre*.

Beauty Is ... Symmetry, Proportion, Definition

If Helen of Troy was indeed so beautiful that hers was "the face that launched a thousand ships," most likely her face was remarkably symmetrical. All of us, to varying degrees, have differences between the left side and the right side of our faces; "photograph my good side" has a basis in fact. Studies have shown that these left-right facial differences are imperceptible in men and women considered beautiful.

Pythagoras would have understood the attractiveness of Helen's facial geometry. A mathematician and philosopher who lived in Greece 25 centuries ago (7 centuries after the destruction of Troy), Pythagoras founded a school of philosophy that believes beauty in the world arises from numeric harmonies. That is, underlying the beautiful proportions and orderliness found in nature, music, architecture, etc., are specific mathematical formulations.

Aristotle agreed: "The chief forms of beauty are order and symmetry and definiteness, which the mathematical sciences demonstrate in a special degree." ⁷ He further commented that "...we often say of good works of art that it is not possible either to take away or to add anything." ⁸

Both of Aristotle's observations were echoed by William Hogarth a thousand years later in England. In *The Analysis of Beauty*⁹ under the aesthetic principle of "Pleasing Forms," Hogarth says: "If any one should ask, what it is that constitutes a fine-proportion'd human figure? How ready and seemingly decisive is the common answer: a just symmetry and harmony of parts with respect to the whole. Simplicity in composition, or distinctness of parts, is ever to be attended to, as it is one part of beauty."

So far "beauty by the numbers" appears to be unemotional. Immanuel Kant, in Germany at the end of the 18th century, explicitly addresses that point. Kant's *Critique of Judgment*¹⁰ is generally acknowledged to be the foundation of modern aesthetic philosophy. The beginning section, "Analytic of the Beautiful," posits that ornamentation, charming colors, or other pleasurable manifestations may attract us to an object but are not the appropriate basis for judging its beauty.

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Rather, pure judgment is based on the form of the object, including its spatial and temporal composition. Emotion is extraneous.

Thus our beautiful universal truth is that a beautiful object's components are objectively deducible, harmoniously balanced, and clearly, concisely articulated.

Beauty Is ... Order within Diversity and Complexity

Why would most people agree that the morning sun highlighting dozens of dew drops and hundreds of strands in a spider web is a beautiful sight? Credit for being the first to answer the question goes to Francis Hutcheson, an 18th century Irish philosopher. Hutcheson wrote in *Inquiry into the Origin of Our Ideas of Beauty and Virtue* ¹¹ that beautiful objects are those in which there is "uniformity amidst variety." For "uniformity" he sometimes substituted "regularity" and "order"; for "variety," "diversity" and "complexity." He further observed that objects displaying uniformity amidst variety (regularity within diversity, order within complexity) can be found in nature, art, and mathematics.

Hutcheson's contemporary, William Hogarth, in *The Analysis of Beauty* refers frequently to his fundamental principle of "Variety." For example: "The art of composing well is no more than the art of varying well...Yet when the eye is glutted with a succession of variety, it finds relief in a certain degree of sameness; and even plain space becomes agreeable, and properly introduced, and contrasted with variety, adds to it more variety." ¹² Hogarth is thereby adding a twist: ubiquitous variety is not beautiful. Our large spider web offset by empty surroundings is beautiful, but that same spider web in a world consisting entirely of spider webs would not be.

Kant also adds a twist, from his previously cited, seminal *Critique of Judgment*, when he posits that a key component of beauty lies essentially in our recognition of our recognition. That is, we acknowledge the beauty of an object via the feeling of pleasure of the harmony of our abilities and awareness of our mental state. We experience beauty "not as a thought, but as an internal feeling of a purposive state of the mind."

Hutcheson, Hogarth and Kant are all saying that humans find beauty when they can make sense of their surroundings. Explicitly, in the mid-20th century Professor Kevin Lynch of the Massachusetts Institute of Technology reached that conclusion while conducting extensive field research on how people perceive the cityscape. In a Boston case study, he found that: "The individual must perceive his environment as an ordered pattern, and is constantly trying to inject order into his surroundings...A distinctive and legible environment heightens the potential depth and intensity of the human experience." ¹³ Lynch is telling us not only that we not only find "uniformity amidst variety" to be attractive, but also that we actually need it.

As an aside, consider the "uniformity amidst variety" of San Francisco's much admired Victorian neighborhoods. Despite significant differences from one building to the next in three distinct Victorian-era architectural styles (chronologically, Italianate, Second Empire, and Queen Anne), an observer such as Lynch would readily discern and appreciate reoccurring patterns of Bay Windows; for example, the observer would perceive "stick-style" facade ornamentation, standard three-color palettes for the houses known as the Painted Ladies, and so on. Thus, "uniformity amidst variety" can exist at the scale of entire city blocks as well as within a small spider web.

At the macro scale, Edmund Bacon, planning director of Philadelphia from 1949 to 1970 and author of *Design of Cities*¹⁴, has this overall prescription for making cities more beautiful: "…create strongly articulated nuclei built around beloved landmarks and institutions carefully distributed throughout the residential fabric, to establish powerful architectural imagery and rhythms which extend their influence into the less articulated areas around them." Substitute dew drops for landmarks, and Bacon's prescription has much in common with our initial, sunlit spider web.

Hence the fourth beautiful universal truth is that we find – and even need – beauty by assimilating complex order.

Beauty Is ... Monumental, Inspirational, Majestic

One of the simplest and most commonplace geometric shapes is the pyramid. Yet the Great Pyramid at Giza has been a breath-taking, beautiful-to-behold sight for more than 4,500 years. Size matters. Why?

Once again *The Analysis of Beauty* is a seminal text, this time for the aesthetic principle William Hogarth labels "Quantity." He states: "Forms of magnitude, although ill-shaped, will however, on account of their vastness, draw our attention and raise our admiration... Elephants and whales please us with their unwieldy greatness...The robes of state are always made large and full, because they give a grandeur of appearance... In a word, it is quantity which adds greatness to grace." ¹⁵

Adding "greatness to grace" can also be achieved in urban design. Pierre Charles L'Enfant prepared the baroque plan for Washington, D.C. in 1791, inspired in part by the plan for Versailles. Long avenues, lined with huge neoclassical buildings, intersect at monuments and fountains. Open spaces and panoramas are numerous and vast. The intent is for the entire city to be a magnificent statement.

Magnificence was also a theme of the City Beautiful Movement, which grew out of "the White City" of the World's Columbian Exposition in Chicago in 1893. Daniel Burnham is the architect most associated with the City Beautiful Movement. His most famous quote says it all: "Make no little plans; they have no magic to stir men's blood and probably will themselves not be realized. Make big plans; aim high in hope and work, remembering that a noble, logical diagram once recorded will not die." Though eventually – and arguably unfairly – falling into disfavor, the City Beautiful Movement in fact did not die; among its many legacies is the master plan (also known as the general plan or comprehensive plan) in virtually every U.S. community.

Lewis Mumford helps us complete our august journey from Ancient Egypt to the modern day and on to the future. Mumford was awarded the Presidential Medal of Freedom for his contributions to architectural criticism, American studies, humanism, and technology. In his landmark book *The City in History* ¹⁶ he wrote: "When cities were first founded, an old Egyptian scribe tells us, the mission of the founder was to 'put gods in their shrines.' The task of the coming city is not essentially different: its mission is to put the highest concerns of man at the center of all his activities."

The fifth beautiful universal truth is found in the physical representation of those highest concerns, when we confront something majestic, grandiose, colossal.

Beauty Is ... Social Connection, Communal Expression, Cultural Continuity

The television comedy *Cheers* received greater popular and critical acclaim than almost any other television show in history. One of the major reasons is captured in the lyrics of its theme song: "Sometimes you want to go where everybody knows your name, and they're always glad you came." Cheers personified the beautiful experiences that can emerge from social affinities. Beautiful experiences are not limited to the interactions a person has with objects, but also include interactions with other people.

Cities offer the greatest number of opportunities for such interactions. In the first part of the 20th century, sociologists in the United States and in Germany were exploring the linkages between demographics and geography within cities. Persons of similar ethnic, income, educational, and other characteristics, then as now, tend to conglomerate. Robert Park (writing in 1916): "The attraction of the metropolis is due in part to the fact that in the long run every individual finds somewhere among the varied manifestations of city life the sort of environment in which he expands and feels at ease...that bring his innate dispositions to full and free expression."¹⁷ Hence cities, as embodiments of human preferences and aspirations, are hardly monolithic. Louis Wirth (1938): "The different parts of the city acquire specialized functions, and the city consequently comes to resemble a mosaic of social worlds in which the transition from one to the other is abrupt."¹⁸ Cheers could be viewed as one of the social worlds (albeit tiny) comprising the mosaic called Boston.

People gravitate to the areas of cities where they feel most at home, and thereby help shape those cities. In Austria toward the end of the 19th century, Camillo Sitte published one of the most influential textbooks in the history of urban planning. In *City Planning According to Artistic Principles*¹⁹ he argued that urban design should be based on analyses of historic city plans, which exhibit an organic arrangement of buildings, landmarks and monuments that completely complement everyday life. "Anyone who has enjoyed the charms of an ancient city would hardly disagree with this idea of the strong influence of physical setting on the human soul." People shape cities, and cities in turn shape the people who live there.

Can cities be proactively designed to shape the inhabitants in a specified way? Daniel Burnham and the other leaders of the City Beautiful Movement held that beautiful cities would bring forth better, happier citizens. A hallmark of the movement was the civic center – the finest surviving example of which is San Francisco's. Burnham et al. believed: "The

civic center's beauty would reflect in the souls of the city's inhabitants, inducing order, calm and propriety therein. The citizen's presence in the center, together with other citizens, would strengthen pride in the city and awaken a sense of community with fellow urban dwellers."²⁰ Beautiful cities would yield worthy citizens, who presumably would strive to make their cities even more beautiful.

Louis Mumford, again from his masterful book *The City in History*, warns of the perils of *not* pursing beautiful cities. "If we are to create balanced human beings, capable of entering into worldwide cooperation with all other men of good will – and that is the supreme task of our generation, and the foundation of all its other potential achievements – we must give as much weight to the arousal of the emotions and to the expression of moral and esthetic values as we now give to science, to invention, to practical organization. One without the other is impotent."

The efficacy and even ethics of proactive design can be controversial, because who's opinion of beauty should dominate? Less controversial is a reactive approach to city planning. In 1961 another of the most influential texts in the history of urban planning was published. Jane Jacobs wrote *The Death and Life of Great American Cities*²¹ to reclaim cities for their citizens. "City designers should return to a strategy ennobling both to art and to life: a strategy of illuminating and clarifying life and helping to explain to us its meanings and order...Only intricacy and vitality of use give, to the parts of a city, appropriate structure and shape." Similarly, again quoting city planner and author Edmund Bacon: "One of the prime purposes of architecture is to heighten the drama of living. Therefore, architecture must provide differentiated spaces for different activities, and it must articulate them in such a way that the emotional content of the particular act of living which takes place in them is reinforced."²² If they could be gathered in a single room, all the above commentators would quickly agree that city planners should give greater attention to supporting individual lifestyles and communal cohesion.

As a corollary, such support by city planners not only has spatial dimensions but temporal extensions as well. In 1991, Peter Neill, president of the South Street Seaport Museum in New York City, said in his speech at the National Preservation Conference: "What is historic preservation?...It is an equation between self and history so powerful that it makes us lie down in front of bulldozers, raise toppled statutes, salvage old boats." ²³ Social affinity is timeless.

In short, human interactions and the context in which they occur generate beautiful experiences – the sixth beautiful universal truth.

Beauty Is ... The Natural Environment

"I think that I shall never see a poem lovely as a tree..." Written in 1914, Joyce Kilmer's well known poem *Trees* captures the reverence humankind feels toward nature.

The earliest extant book on architecture – and one that has profoundly influenced artists and architects for centuries, including Michelangelo and Da Vinci (per the "Vitruvian Man") – is *De Architectura ["On Architecture"]*, circa 15 BC by the Roman architect and engineer Marcus Vitruvius Pollio. Vitruvius is famous for asserting that a structure must balance three salient qualities: *firmitas, utilitas, venustas* – i.e., solid, useful, beautiful. Vitruvius thought that a timeless notion of beauty could be learnt from the "truth of nature", that nature's designs were based on universal laws of proportion and symmetry. If a building is to create a sense of *eurythmia* - a graceful and agreeable atmosphere - it is essential that it mirrors these natural laws of harmony and beauty.

Again from the *Critique of Judgment*, Immanuel Kant says that nature, "without our indulging in any refinements of thought, but, simply in our apprehension of it, excites the feeling of the sublime." In fact, according to Kant we are predisposed ("pre-adapted to our power of judgment") to find beauty in nature.²⁴

Turning from poetry and philosophy to urban design, yet another of the most important texts in city planning history is Ebenezer Howard's *Garden Cities of To-Morrow*. First published in England in 1902, the book calls for relatively small, completely planned communities in suburban and rural areas, permanently surrounded by agricultural land. Ultimately more than 30 communities in England and the United States were built employing Howard's guidelines, including Radburn, New Jersey. His ideas also inspired other highly influential planners including Frederick Law Olmstead, the founder of American landscape architecture.

Garden Cities of To-Morrow was published in England when the City Beautiful Movement was gaining momentum in the United States. Though often characterized by its neoclassic architecture, the City Beautiful Movement was not concerned only with the manmade structures. "Reverence for natural beauty and for naturalistic constructivism, its urban

counterpart, stand first in the order of City Beautiful aesthetics...City Beautiful planners typically treated naturalistic parks and parkways as precious assets."²⁵ City planners on both sides of the Atlantic Ocean venerated nature.

Frank Lloyd Wright was among them. Beginning in 1934, Wright advocated a utopian cityscape which he called Broadacres. Dwellings, businesses and industry were to be widely scattered throughout a rural setting, essentially completely decentralizing cities, placing man in harmony with nature.

John Dewey, an American academic whose life span closely overlapped with Wright's, became the nation's foremost expert in educational philosophy. Kant says we are pre-adapted to find beauty in nature, and then Dewey tells us why. He argues that the roots of art and beauty are in the "basic vital functions…the biological commonplaces" man shares with "bird and beast." ²⁶

Ronald W. Hepburn, another academic but this time Scottish and a couple of generations after Dewey, laid the foundation for a new paradigm for environmental aesthetics. In *Contemporary Aesthetics and the Neglect of Natural Beauty*²⁷, he makes the case that aesthetic experiences in the natural world can be as cognitively rich and emotionally rewarding as the best works of art. His version of the poem *Trees* might begin "I know that I shall never see a painting lovelier than a tree..."

Interplay with the natural world thus comprises the seventh beautiful universal truth.

Beauty Is ... Stimulation of the Senses

One of the most historic cemeteries in the world is Pere Lachaise in Paris. Luminaries interred there are diverse indeed, including Molière, Honoré de Balzac, Georges Seurat, Oscar Wilde, Sarah Bernhardt, Marcel Proust, Gertrude Stein, Maria Callas, and Jim Morrison. The graves that consistently have the most flowers, though, are Frédéric Chopin, Georges Bizet, Gioacchino Rossini, and other composers – despite, in some cases, the passage of a century and a half since their deaths. The appeal of music (essentially non-random arrangements of selected sounds) is obviously both universal and highly personal.

Music thereby fulfills the definition of "beautiful" in *Webster's Encyclopedic Unabridged Dictionary of the English Language*: "having qualities that give great pleasure or satisfaction to see, hear, think about, etc.; delighting the senses or mind." ²⁸ Though some dictionaries emphasize visual stimulation, most dictionaries include all the senses when defining "beautiful."

The linkage between beauty and the senses in dictionaries and in discourses on aesthetic philosophy can be traced at least as far as David Hume, a Scottish philosopher in the 18th century. In his book *Of the Standard of Taste*²⁹ Hume wrote that anyone can learn to perceive beauty, that is, develop "the mechanism of taste." Doing so requires overcoming five "defects," the first of which concerns "delicacy," described as the ability to perceive the aesthetic ingredients in an object using all five senses. Good taste – recognizing and appreciating beauty – results in part from training all our senses.

A century and a half after *Of the Standard of Taste* was first published, Dr. Ethel Puffer Howes, professor of aesthetics at several Ivy League colleges, wrote her all-encompassing book *The Psychology of Beauty* ³⁰. After surveying all the literature on beauty up to that time, not only in aesthetic philosophy but also psychology and other germane disciplines, she concludes: "Thus the Nature of Beauty is in the relation of means to an end; the means, the possibilities of stimulation in the motor, visual, auditory, and purely ideal fields; the end, a moment of perfection, of self-complete unity of experience...Beauty is not perfection; but the beauty of an object lies in its permanent possibility of creating the perfect moment." From Hume to Howe, we find agreement that the search for beauty begins with all the senses.

We also receive agreement six decades later from a pioneer in an entirely different discipline. Dr. James Marston Fitch is best known for establishing the nation's first academic program in restoration and historic preservation at Columbia University's school of architecture. The broad scope of his writings, however, also encompasses environmental psychology, notably the biological underpinnings of aesthetic experiences. Fitch reprimands architects for inadequate attention to all the senses. "The aesthetic enjoyment of an actual building cannot be merely a matter of vision (as most criticism tacitly assumes). It can only be a matter of total sensory perception...Only by manipulating the physical properties of his environment – heat, air, light, color, odor, sound, surface, space – can the architect communicate with his client at all." ³¹

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individual buildings or entire cities, requires the involvement of all the senses.

All the senses are touted by Virginia Postrel as well, in her widely read book *The Substance of Style*³³. In her chapter entitled "The Aesthetic Imperative", Postrel says "We are demanding and creating an enticing, stimulating, diverse and beautiful world...Aesthetics is more persuasive than it used to be...Sensory appeals are everywhere, they are increasingly personalized, and they are intensifying."

Shifting the discussion slightly from sensible to sensual, evolutionary psychologists toward the end of the 20th century increasingly adopted Freudian and neo-Darwinian conceptions of art and beauty. Professor Jennifer McMahon, Department of Philosophy at the University of Adelaide: "Either art is connected with using up intellectual or physical energies once required for survival, or art is a legacy of the displays of the mating game... Beauty is conceived as simply a sublimation of desire whose original teleology is procreation." ³⁴ In short, sex – highly stimulating to all the senses – is beautiful.

Finally, foreshadowing the upcoming section on the contributions of behavioral psychologists, architect Oscar Newman wrote *Design Guidelines for Creating Defensible Space* ³⁵, one of the principal texts on Crime Prevention Through Environmental Design (CPTED). The term describes how architectural designs – building layout and site plan – allow inhabitants to ensure their own security. Beautiful moments are not possible if fear dominates the senses.

The eighth and final beautiful universal truth is the beauty found in the exhilaration of one or more of the senses.

Anatomy Of The Human Brain

To what extent are theories of beauty driven by the biology of the brain in which those theories originate?

As first theorized by Dr. Paul MacLean in the 1960s and explicated in this book *The Triune Brain in Evolution*³⁶, the human brain consists of three principal components, derived from three progressive evolutionary periods:

- The <u>Reptilian Brain</u> (a.k.a. Archipallium Brain, R-Complex), which includes the brain stem and the cerebellum, is the oldest brain in all animals. The functions controlled by the Reptilian Brain are related to body maintenance and physical survival – breathing, blood circulation, digestion, reproduction, aggression, stress responses, territorial instincts, ritual displays, and social dominance. Broadly speaking, then, the Reptilian Brain administers our *physical being*.
- The <u>Mammalian Brain</u> (Paleomammalian Brain, Limbic System) consists of the septum, amygdala, hypothalamus, hippocampal complex, and cingulate cortex. Among other functions, the Mammalian Brain governs activities related to emotions and feelings – "fight or flight", reproductive behavior, parental attachment to and care of offspring, etc. Thus, in general, the Mammalian Brain is responsible for our *emotional being*.
- 3. The <u>Neocortex</u> (Neopallium Brain, Cerebrum, Cortex), comprises two-thirds of the total brain mass in humans, takes up a much smaller portion of the brains of other mammals, and doesn't exist in non-mammals (reptiles, birds, fish, insects, etc.). Dr. MacLean regarded the addition of the Neocortex as the most recent step in the evolution of the human brain, conferring the ability for language, abstraction, planning, and perception. The right-side of the Neocortex is more spatial, abstract, musical and artistic, while the left-side is more linear, rational, and verbal. The Neocortex therefore is the locale of our *intellectual being*.

As we'll see momentarily in the section on the Beautiful Schema, each of the above three brains can be linked to differences in how we perceive beauty.

In the Beautiful Schema a fourth level is also postulated, which goes beyond Dr. MacLean's work. Without attempting to be anatomically specific, numerous authors have observed that the brain also harbors something variously called our innermost self, life force, soul, *spiritual being*.

Theories Of Leading Behavioral Psychologists

In addition to theories of beauty and the anatomy of the brain, the perspectives of psychologists are highly relevant. The focus herein is on behavioral psychologists who developed the concept of a "hierarch of needs". As again will be seen momentarily in section on the Beautiful Schema, different levels in the human hierarchy of needs correlate with different perceptions of beauty.

Major studies that have been completed on the hierarchy seem to support the proposals of William James³⁷ and Eugene Mathes³⁸ that there are three levels of human needs. James hypothesized the levels of material (physiological, safety), social (belongingness, esteem), and spiritual. Mathes proposed that the three levels were physiological, belongingness, and self-actualization; he considered security and self-esteem as unwarranted. Clayton Alderfer³⁹ developed a comparable hierarchy with his ERG (existence, relatedness, and growth) theory. His approach was based on the work of Gordon Allport^{40, 41} who incorporated concepts from systems theory into his work on personality.

The above contributors notwithstanding, the work of Abraham Maslow is the best known. In 1943 Maslow wrote an influential paper and subsequently the book *Motivation and Personality*⁴² that delineated fundamental human needs. A key aspect of the model is the hierarchical nature of the needs, often been represented in a hierarchical pyramid. The lower the needs in the hierarchy, the more fundamental they are and the more a person will tend to abandon the higher needs in order to pay attention to sufficiently meeting the lower needs. Maslow originally posited five human Needs:

- Physiological Needs have to do with the maintenance of the human body. If we are unwell, then little else
 matters until we recover.
- **Safety Needs** are about putting a roof over our heads and keeping us from harm. If we are rich, strong and powerful, or have good friends, we can make ourselves safe.
- Belonging Needs introduce our tribal nature. If we are helpful and kind to others they will want us as friends.
- *Esteem Needs* are for a higher position within a group. If people respect us, we have greater power.
- **Self-actualization Needs** are to become what we are capable of becoming, which would our greatest achievement.

Maslow later added three more Needs by splitting two of the above five Needs. Between the Esteem and Selfactualization Needs were added:

- *Need to know and understand,* which explains the cognitive need of the academic.
- Need for aesthetic beauty, which includes "symmetry, order, and beauty."

The Self-actualization Need was divided into:

- Self-actualization Need, which is realizing one's own potential, as above.
- *Transcendence Need*, which is helping others to achieve their potential.

How noteworthy for our development of a Beautiful Schema, of course, that <u>Maslow specifically identified aesthetics as a</u> <u>very high order Need</u>, a prerequisite to continuing up towards Self-actualization and Transcendence. In Maslow's own words in *Motivation and Personality (ibid.):* "I have attempted to study this phenomenon on a clinical-person logical basis with selected individuals, and have at least convinced myself that in *some* individuals there is a truly basic aesthetic need. They get sick (in special ways) from ugliness, and are cured by beautiful surroundings; they *crave* actively, and their cravings can be satisfied *only* by beauty. It is seen almost universally in healthy children. Some evidence of such an impulse is found in every culture and in every age as far back as the cavemen."

Author's Additions

After reflecting upon all the above theories as well as my own empirical observations, I hereby propose that the following behavioral Needs be inserted into the Hierarchy of Needs when assembling the Beautiful Schema:

- Need for novelty, uniqueness, invention (a division of Maslow's Know and Understand Need) Creativity is
 obviously a fundamental, highly compelling trait of the human species. A prerequisite of creativity is a deep
 interest in and appreciation of all things new and different.
- **Need for connections to the past** (a division of Maslow's Belonging Need) For confirmation we do not have to look any further than the ancestor worship practiced in many cultures over many millennia throughout the world.
- Need for an affinity with the natural environment (another division of Maslow's Belonging Need) No one
 exists outside the realm of Mother Nature, and so to varying degrees of consciousness and appreciation everyone
 has a complete dependency on our universal surroundings.
- Need for multiple senses to synergistically amplify the impact of experiences (a division of Maslow's Physiological Need) The greater number of our senses that can be brought into play at any given moment, the greater our awareness and understanding of our immediate circumstances including times when our very survival may be at stake. Keen appreciation of multi-sensory perception has always been in our DNA.
- Need for movement-based stimulation, objects in motion, changes by time of day, seasons of the year, etc. (another division of Maslow's Physiological Need) Static can be quite boring compared to dynamic. For example, how much fun is a San Francisco cable car when stopped at the end of the line versus "when climbing halfway to the stars"?

The Assembly of the Beautiful Schema and Corresponding Beautiful Facets

We are now ready to assimilate all the perspectives from the previous sources into a single "Beautiful Schema" and corresponding "Beautiful Facets." Recall that the sources we have been considering are these:

- ✓ The observations of acclaimed philosophers, architects, city planners, etc., over the last 2,600 years;
- ✓ The anatomy of the human brain;
- ✓ The theories of leading behavioral psychologists; and
- ✓ Additional human needs posited by the author.

Traditionally, the observations of philosophers *et al.* have been classified into two groups, according to the kind of pleasurable experience that is evoked by beauty:

- 1. *Pythagorean* those who recognize beauty through reason-based, contemplative experiencing of music, mathematical formulas, patterns in nature, so on; and
- 2. Pleasure-Principle those who find beauty via the pleasures of the senses, including sights, sounds, tastes, etc.

We can correlate these two categories with the previously derived eight beautiful universal truths (e.g., *Beauty Is* ...Divinity, Perfection, Truth) and fit them all into one table. **Exhibit 2 on the next page is that consolidated table.**

F	PHILOSOPHERS ET AL.				
CLASSICAL	AESTHETES, ARCHITECTS, PLANNERS, <i>ETC.</i>	"COMMON THREADS"			
Faith (Non-Provable)	Plato, Aquinas, Shelling, Hegel, Emerson, Keats, Schloeder	Divinity, Perfection, Truth			
	Aristotle, Hogarth, Le Corbusier, Sullivan	Fitness, Purposiveness			
Pythagorean (Reason)	Pythagoreans, Aristotle, Hogarth, Kant	Symmetry, Proportion			
	Hogarth, Hutchinson, Lynch, Bacon, Kant	Order within Diversity and Complexity			
	Hogarth, L'Enfant, Burnham., Mumford	Monumental, Inspirational, Maiestic			
	Sitte, Burnham et al., Park, Wirth, Jacobs, Bacon, Neill, Mumford	Social Connection, Communal Expression, Cultural Continuity			
 Pleasure Principle (Senses) 	Vitruvius, Kant, Howard, Wright, Dewey, Henburn	The Natural Environment			
	Newman				
	Hume, Puffer, Fitch, Bacon, McMahon, Postrel	Stimulation of the Senses			

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Note that in Exhibit 2 and the exhibits to follow that the horizontal dashed lines and colored boxes of the tables delineate groupings; at the bottom of Exhibit 2, for example, "Newman" and "Hume, Puffer, Fitch, Bacon, McMahon" are subsets of "Stimulation of the Senses," which in turn is a subset of "Pleasure Principle (Senses)."

In a similar manner, in Exhibit 3, we can correlate and combine our previous delineations of the human brain, the works of behavioral psychologists, and this author's additions:

	E	EXHIBIT 3	
		BEHAVIORAL PSYC	HOLOGISTS
HUMAN BRAIN	JAMES MATHES ALDERFER	MASLOW	TRADITIONAL (RED) PLUS THE AUTHOR'S (PURPLE) COMPONENTS OF THE "HIERARCHY OF NEEDS"
Spiritual Being		Transcendence	Need to connect to something beyond the egoincluding the knowable and unknowable
			Need to help others find self-fulfillment and realize their potential
	Spiritual	Self-Actualization	Need for growth, development and utilization of potential, becoming what one must be
Neocortex / Intellectual Being	Actualization Growth	Aesthetics	Need for beauty in surroundings symmetry, order, balance
		Understanding	Need for novelty, uniqueness, invention (inductive reasoning)
		and Knowledge	Need to satisfy curiosity, explore, find solutions, look for relationships and meaning (deductive reasoning)
			Need for respect from others – acceptance, recognition, prestige, reputation, appreciation, status
		- Seif-Esteem -	Need for self-respect – confidence, competence, adequacy, achievement, mastery
Mammalian / Emotional Being	Social Belongingness Relatedness		Need for connections to the past
		Love and Belonging	Need for love and affectionate relationships, belonging to a group, caring
			Need for an affinity with the natural environment
		Safety	Need to be safe from harm, a predictable world, consistency, fairness, routine, stability, security
	Material		Need for multiple senses to amplify the impact of experiences
– – – – Physical Being – –	Pbysiological Existence	Physiological	Need for movement-based stimulation, objects in motion, changes by time of day, seasons of
			Need for air, water, food, warmth and shelter, sleep, sex

BEAUTIFULFACETS	RANKING TEST	CITIES	DETAILS	ABOUT US	BLOG	SITEMA

Now comes the a moment of enlightenment, a conceptual windfall: All the perspectives in Exhibits 2 and 3 – from Plato to Maslow, despite enormous differences in eras, cultures, professions, etc. – can be integrated into a single table. Stated differently, all the various viewpoints correlate with each other, as identified by the dotted horizontal bands in Exhibit 4. (Again, note that the table has been compiled from the works of the 40 individuals in Exhibit 1, plus the author's additions shown in purple.)

	EXHIBIT 4						
P	HILOSOPHERS ET A	IL.			BEHAVIORAL PSYC	HOLOGISTS	
CLASSICAL	AESTHETES, ARCHITECTS, PLANNERS, ETC.	"COMMON THREADS"	HUMAN BRAIN	JAMES MATHES ALDERFER	MASLOW	TRADITIONAL (RED) AND ADDITIONAL (PURPLE) COMPONENTS OF THE "HIERARCHY OF NEEDS"	
Faith (Non-Provable)	Plato, Aquinaa, Shelling, Hegel,	Divinity,	Spiritual Being		Transcendence	Need to connect to something beyond the egoincluding the knowable and unknowable	
	Emerson, Keata, Schloeder	Truth				Need to help others find self- fulfillment and realize their potential	
	Aristotie, Hogarth, Le Corbusier, Sullivan	Fitness, Purposiveness		Spiritual Self-	Self- Actualization	Need for growth, development and utilization of potential, becoming what one must be	
Pythagorean (Reason)	Pythagoreans, Aristotle, Hogarth, Kant	Symmetry, Proportion	Neocortex / Intellectual Being	Actualization Growth	Aesthetics	Need for beauty in surroundings symmetry, order, balance	
	Hogarth, Hutchinson,	Order within			Understanding	Need for novelty, uniqueness, invention (inductive reasoning)	
	Lynch, Bacon, Kant	Complexity			and Knowledge	Need to satisfy curiosity, explore, find solutions, look for relationships and meaning (deductive reasoning)	
	Hogarth, L'Enfant, Burnham et al., Mumford	Monumental, Inspirational, Majestic				Need for respect from others – acceptance, recognition, prestige, reputation, appreciation, status	
		Social			Seit-Estéem	Need for self-respect – confidence, competence, adequacy, achievement, mastery	
	Sitte, Burnham et al., Park, Wirth, Jacobs, Bacon, Neill, Mumford	Communal Expression,	Mammalian / Emotional Being	Social Belongingness . Relatedness		Need for connections to the past	
		Continuity			Love and Belonging	Need for love and affectionate relationships, belonging to a group, caring	
Pleasure Principle (Senses)	Vitruvius, Kant, Howard, Wright, Dewey, Hepburn	The Natural Environment				Need for an affinity with the natural environment	
	Newman				Safety	Need to be safe from harm, a predictable world, consistency, fairness, routine, stability, security	
		Stimulation of	Reptilian /	Material		Need for multiple senses to amplify the impact	
	Hume, Puffer, Fitch, Bacon, McMahon, Postrel	the Senses	Being	Existence	Physiological	Need for [1) movement-based stimulation, (2) objects in motion, (3) changes by time of day, day of year, etc.	
						Need for air, water, food, warmth and shelter, sleep, sex	

The jigsaw puzzle is not quite complete. Each of the 15 horizontal bands needs a name and a summary description, *a.k.a.* a "beautiful glossary", to help us lock the concepts into our minds.

Exhibit 5 on the next page presents the beautiful glossary developed by the author, hereafter called the <u>Beautiful Facets</u>. These are essentially 15 categories of civic beauty. **All beautiful urban places can be described using this glossary** of the 15 Beautiful Facets.

	EXHIBIT 5							
PH	IILOSOPHERS ET A	AL.			BEHAVIORAL PSYC	HOLOGISTS		THE 15
CLASSICAL	AESTHETES, ARCHITECTS, PLANNERS, ETC.	"COMMON THREADS"	HUMAN BRAIN	JAMES MATHES ALDERFER	MASLOW	TRADITIONAL (RED) AND ADDITIONAL (PURPLE) COMPONENTS OF THE "HIERARCHY OF NEEDS"		RESULTING BEAUTIFUL FACETS
Faith (Non-Provable)	Plato, Aquinas, Shelling, Hegel,	Divinity,	Spiritual Being		Transcendence	Need to connect to something beyond the egoincluding the knowable and unknowable		Epiphany
	Emerson, Keats, Schloeder	Truth				Need to help others find self- fulfillment and realize their potential		Mentoring
	Aristotle, Hogarth, Le Corbusier, Sullivan	Fitness, Purposiveness		Spiritual Self-	Self- Actualization	Need for growth, development and utilization of potential, becoming what one must be		Self Fulfillment
Pythagorean (Reason)	Pythagoreans, Aristotle, Hogarth, Kant	Symmetry, Proportion	Neocortex / Intellectual Being	Actualization Growth	Aesthetics	Need for beauty in surroundings symmetry, order, balance		Elegance
	Hogarth, Hutchinson,	Order within			Understanding	Need for novelty, uniqueness, invention (inductive reasoning)		Originality
	Lynch, Bacon, Kant	Complexity			and Knowledge	Need to satisfy curiosity, explore, find solutions, look for relationships and meaning (deductive reasoning)		Revelation
	Hogarth, L'Enfant, Burnham et al., Mumford	Monumental, Inspirational, Majestic				Need for respect from others – acceptance, recognition, prestige, reputation, appreciation, status		Grandeur
		Social			Jeil-Esteelin	Need for self-respect – confidence, competence, adequacy, achievement, mastery		Selfhood
	al., Park, Wirth, Jacobs, Bacon, Neill, Mumford -	Communal Expression, 	Mammalian / Emotional Being	Social Belongingness . Relatedness		Need for connections to the past	•	Chronicle
		Continuity			Love and Belonging	Need for love and affectionate relationships, belonging to a group, caring		Kinship
Pleasure Principle (Senses)	Vitruvius, Kant, Howard, Wright, Dewey, Hepburn	The Natural Environment				Need for an affinity with the natural environment	۲	[Mother] Nature
	Newman				Safety	Need to be safe from harm, a predictable world, consistency, fairness, routine, stability, security	۲	Surety
		Stimulation of	Reptilian /	Material		Need for multiple senses to amplify the impact		Synergy
	Hume, Puffer, Fitch, Bacon, McMahon, Postrel	the benses	Being	Existence	Physiological	stimulation, (2) objects in motion, (3) changes by time of day, day of year, etc.		Dynamism
						Need for air, water, food, warmth and shelter, sleep, sex		Sensation

To illustrate, Exhibit 6 is the horizontal band for the Beautiful Facet of Revelation, extracted from the table in Exhibit 3. Among other connections, the band links the "common thread" of the works of Hogarth, Hutchinson, Kant, etc., with the anatomy of the Neocortex Brain as well as the behavioral psychiatrist Abraham Maslow's hierarchy of human needs.



	BEAUTIFUL FACETS	RANKING TEST	CITIES	DETAILS	ABOUT US	BLOG	SITEMAP
Exhibit 7 contains a synopsis of <i>"15 Beautiful Facets" tab at Citie</i>	each of the 15 Bear sBeautiful.org.	utiful Facets. <i>Fo</i>	r examples	s of each fro	m around the	world, se	e the
	_	EXHIBIT 7					
THE 15 RESULTING BEAUTIFUL FACETS							
Epiphany	Beautiful experienc always is a leap of f transcendence.	es epitomizing that w aith, while simultane	vhich may not ously validate	be provable, f one's sense	requently is spirit of self-worth and e	ual, ven	
Mentoring	Beautiful experienc otherwise contribut indirectly (e.g., writi	es stemming from se ting to the lives of hu ing a book); includin	arching for ul mankind direc g the self-este	timate truths; tly (e.g., one-c em from being	teaching, inspiring on-one instruction g qualified to do so], or) or)	
Self Fulfillment	Beautiful experienc actualization – "be contribute back to t	es arising not only fr all that you can be" the world (i.e., not wa	om recognizi – but also fro sting one's p	ng and enjoyin om being able t recious life, no	ng a state of self o competently ot just taking up sp	ace).	
Elegance	Beautiful experience object, sometimes o	es emanating from th described mathematio	e well propor cally.	tioned, refined	d, graceful qualitie	s of an	
Originality	Beautiful experience circumstances and creativity).	es springing from ap interpretations, inclu	pealingly nov Iding those or	el, unpreceder ne personally o	nted, or even uniqu causes to happen (ie.,	
Revelation	Beautiful experience life's endless compl gratification of solv	es deriving from inve lexity, including not o ⁄ing a puzzle.	stigating, eva only the know	luating and as ledge gained b	similating pieces o out also the	of	
Grandeur	Beautiful experienc a place or structure	es emerging from aw , notably those enge	re of the magr ndering a sen	nitude, impres se of affinity a	siveness, emineno nd pride.	e of	
Selfhood	Beautiful experienc positive self-image.	es launched by surro	oundings that	contribute to a	and resonate with o	one's	
Chronicle	Beautiful experienc songs, photographs affiliations over spa	es coming from inter s, and other reminder ice and time.	actions with h 's of the past -	iistorical stree - which under	tscapes, buildings score our universa	, al	
Kinship	Beautiful experienc environment, espec you came".	es flowing from a hig cially when "everyone	hly agreeable knows your	e, distinctive so name and they	ocial and cultural ('re always glad		
[Mother] Nature	Beautiful experienc humankind knows a	es originating in the and frequently the be	natural world nchmark for t	– ultimately th he perfection l	e source of everyt numankind pursue	hing Is.	
Surety	Beautiful experienc	es issuing from a sec	ure, reliable,	consistent, pro	edictable environn	nent.	
Synergy	Beautiful experience i.e., "the whole is gr	es leveraging off the eater than the sum o	simultaneous f its parts."	stimulation of	two or more sens	es,	
Dynamism	Beautiful experience one is stationary or the year, etc.	es streaming from en in motion, and when	ergetic rather environs are	than static cir changing by ti	cumstances, whet me of day, season	her Is of	
Sensation	Beautiful experience auditory, gustatory, awareness training.	es bursting from the olfactory, tactile, pro	vivification of prioceptive, g	our biological Jravitational), a	senses (visual, Irguably enhanced	lby	

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Exhibit 8 puts it all together - the Beautiful Schema and the corresponding Beautiful Facet **EXHIBIT 8** Beautiful experiences streaming from energetic rather than static circumstances, when one is stationary or in motion, and when environs are changing by time of day, seasons of the year, etc. Beautiful experiences burding from the vivification of our biological seases (visual, auditory, questory, utactory, tactile, proprioceptive, gravitational), arguebty enhanced by arar enses training. Beautiful experiences emerging from awe of the magnitude, impressiveness, eminence of a place or structure, notably those engendering a sense of affinity and pride. Beautiful experiences arising not only from recognizing and enjoying a state of set actualization – "be all that you can be" – but also from being able to competently contribute back to the world (s. not wating one's precious life, not just taking up space) Beautiful experiences launched by surroundings that contribute to and resonate with one? Beautiful experiences springing from appealingly novel, unprecedented, or even unique circumstances and interpretations, including those one personally causes to happen (i.e., Beautiful experiences originating in the natural world – ultimately the source of everything humankind knows and frequently the benchmark for the perfection humankind pursues. Beautiful experiences leveraging off the simultaneous sfmulation of two or more senses, i.e., "the whole is greater than the sum of its parts." always is a leap of faith, while simultaneously validate one's sense of self-worth and ev transcendence. Dieces of Baautiful experiences coming from interactions with historica streets capes, buildings, songe, photographs, and other reminders of the past - which underscore our universal affiliations over space and time. frequently is spiritu: Beautiful experiences stemming from searching for ultimate truths; teaching, inspiring Beautiful experiences emanating from the well proportioned, refined, graceful qualities an object, sometimes described mathematically. i directly (e.g., one-on-one instructio feeteem from being qualified to do s Beautiful experiences flowing from a highly agreeable, distinctive social and cultural environment, especially when "everyone knows your name and they're always glad Beautiful experiences issuing from a secure, reliable, consistent, predictable env Beaufful experiences deriving from investigating, evaluating and assimilating pi life's andless complexity, including not only the knowledge gained but also the gratification of solving a puzzle. lizing that which may not be provable, including the self-esteem es of humankind indirectly (e.g., writing a book); otherwise contributing to the life Beautiful experiences epi positive self-image. creativity). you came THE 15 RESULTING BEAUTIFUL FACETS Revelation Chronicle Sensation Originality Selfhood Mentoring Elegance Epiphany Grandeur Kinship Synergy Surety Self ٠ ADDITIONAL (PURPLE) COMPONENTS OF THE "HIERARCHY OF NEEDS" RADITIONAL (RED) AND me of day, day water, food, i leep, sex Need for (1) move stimulation, (2) of (3) changes by tin year, etc. Need for an al BEHAVIORAL PSYCHOLOGISTS Need for mu amplify the i Aesthetics Selt-Esteen Belonging MASLOW Love and Safety Salf. Understa and Know Social... Belongingness... Relatedness JAMES... Mathes... Alderfer Spiritual... Self-Actualization.. Material... hysiological Existence HUMAN BRAIN Neocortex / Intellectual Being Mammalian / Emotional Spiritual Being Being Being Order within Diversity and Complexity Stimulation of the Senses Purposiveness The Natural Environment Commedian; Communal Expression, --Cultural --"COMMON THREADS" Symmetry, Proportion Monumenta Divinity, Perfection, Truth Fitness, Social Inspiratio PHILOSOPHERS ET AL State, Burnham et al., Park, Wirth, Jacobs, Bacon, Vitruvius, Kant, Howard, Wright, AESTHETES, Architects, Planners, Plato, Aquinaa, Shelling, Hegel, Emeraon, Keata, Hogarth, utchinson, hch, Bacon, Kant Hume, Puffer, Fitch, Bacon, AcMahon, Postr Pythagorean (Reason) CLASSICAL Principle (Senses) Pleasure Faith (Non-Prov

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4. EMPIRICAL VALIDATION OF THE BEAUTIFUL SCHEMA AND BEAUTIFUL FACETS

To repeat Dr. Ethel Puffer Howes' quote at the beginning of this paper, from her book *The Psychology of Beauty*:

"I believe the way is at last opened from the traditional philosophy of aesthetics to a healthy and concrete psychological theory...The beautiful object possesses those qualities which bring the personality into a state of unity and self-completeness."

That is, again, <u>we say "Beautiful!" when we experience a spontaneous and deeply appreciative connection between</u> our true selves and our surroundings. Beautiful experiences are not passive; they are participatory – physically, emotionally, intellectually, soulfully.

Arguably then, a high correlation exists between the attractions people choose to visit and that which they find to be beautiful. That being the case, if we empirically identify the civic features of any given city that are the most popular, we ought to be able to link those features to the 15 Beautiful Facets – and thereby validate the 15 Beautiful Facets.

As indicated in the title of this paper, San Francisco is our case study. We are about to "run the numbers" to identify the most popular San Francisco attractions – hereinafter to be known as the "Favorites".

The empirical approach encompasses:

- Counting the actual number of visitors to various attractions, and
- Monitoring guidebooks, polls, and other literature pertaining to visitation patterns.

Counting the Actual Number of Visitors

This could also be called "voting with your feet and pocketbook." Two surveys predominate:

- The San Francisco Convention and Visitors Bureau *a.k.a.* San Francisco Travel ranking of attractions, as reported at the San Francisco Chamber of Commerce's website, based on surveys of San Francisco visitors (defined as traveling more than 100 miles and generally staying overnight)...
 - Fisherman's Wharf (which attracted 81% of all visitors)
 - Chinatown (74%)
 - Golden Gate Bridge (73%)
 - Cable car ride (65%)
 - Union Square (65%)
 - Powell and Market Streets area (58%)
 - Golden Gate Park (56%)
- The San Francisco Business Times' ranking of attractions, based on the number of paid visitors (thereby excluding free sites such as the Golden Gate Bridge)...
 - Cable Cars
 - o Giants
 - o Alcatraz
 - o 49ers
 - San Francisco Museum of Modern Art (SFMOMA)
 - Palace of Legion of Honor
 - San Francisco Symphony
 - Academy of Sciences
 - o Maritime National Historical Park
 - o San Francisco Zoo
 - o Exploratorium
 - o San Francisco Opera
 - San Francisco Ballet
 - o Fishermen's Wharf Wax Museum
 - Yerba Buena Center for Arts

Monitoring Guidebooks and Similar Sources

Empirical data can be gleaned from the number of times various attractions are mentioned in guidebooks, Internet Web sites, and similar sources. For example:

- Lonely Planet
- Frommer's
- Fodors
- Michelin Guides
- Access Travel Guides
- Tripadvisor.com

Usually these listings are binary (an attraction is or is not named), but sometimes will be rated (such as Frommers assignment of zero to three stars to each attraction). Another potential measure is the actual column inches of text devoted to each attraction.

A final source is the author's personal experiences from having loved living in San Francisco for four decades.

Resulting "Favorites"

Based on the above two types of analyses, 21 San Francisco attractions qualify as a Favorites. These are not all the major attractions that the city has to offer, but clearly are preeminent. The Favorites will contribute the empirical portion of the Beautiful Schema" and corresponding Beautiful Facets delineated previously.

Note that this list is the author's, rather than a previously published convention. Further, the author has sometimes grouped attractions in ways other observers have not (e.g., the "first tier" Neighborhoods).

In alphabetical order, the Favorites are:

- Alamo Square "Painted Ladies" and all other Victorian Homes
- Alcatraz
- Cable Cars, F-Line Street Cars, and the Cable Car Museum
- Chinatown, bounded generally by Columbus, Kearny, Bush, and Powell Streets
- Civic Center including City Hall
- Cliff House including Seal Rock, Camera Obscura, Fake Cliffs, Sutro Heights, Sutro Baths, Ocean Beach
- Coit Tower including Pioneer Park
- Exploratorium
- Ferry Building and Farmers Market
- Fisherman's Wharf from Pier 39 to Ghirardelli Square
- Golden Gate Bridge including the visitor centers at both ends
- Golden Gate Park including Strybing Arboretum, Conservancy of Flowers, Japanese Tea Garden, Windmills, Buffalo Herd, etc.
- Lombard Street AKA "The World's Crookedest Street"
- Maritime National Historic Park including the Pamponito Submarine and Jeremiah O'Brien Liberty Ship
- Mission Dolores
- Museums (First Tier) comprised of the Academy of Sciences, DeYoung, Legion of Honor, Asian Art, and Museum
 of Modern Art
- Neighborhoods (First Tier) comprised of Haight-Ashbury, Castro, North Beach/Telegraph Hill, Nob Hill, Mission
- Performing Arts including the San Francisco Opera, Ballet, Symphony, Actors Conservatory Theater, and other prominent venues for dance, theater, music, etc.
- Presidio including Fort Point, National Cemetery, Civil War era housing, Batteries, and portions of the Golden Gate National Recreation Area (GGNRA, especially Crissy Field)
- San Francisco Zoo, Steinhart Aquarium, and the Aquarium by the Bay
- Union Square Shopping District, bounded generally by Market, Powell, Sutter, and Kearny Streets

Linking the 15 Beautiful Facets to the Favorites

Exhibit 9 does this, based on the author's judgment. Note that any given civic feature can relate to more than one of the 15 Facets, so Exhibit 9 is focusing on the most prominent affinity between each Favorite and the 15 Facets.

Note too that Exhibit 9 includes "Honorable Mentions" for each of the 15 Facets. These are features of San Francisco that in the author's opinion also correlate empirically with the Beautiful Facets, even if they do not have the same number of visitors as the Favorites.

Finally, note that Exhibit 9 also contains comments by the author in the Reasoning column on the appropriateness of each city feature to the respective 15 Facets.

EXHIBIT 9						
BEAUTIFUL FACETS	PRINCIPAL FEATURES	HONORABLE MENTIONS	REASONING			
Epiphany	Mission Dolores, New St. Mary's Cathedral, Temple Emanu-El, Grace Cathedral	Old St. Mary's Cathedral, Tin How Temple	Mission Dolores (the oldest original intact Mission in California) has always had a central place in the religious life of San Francisco. Mission Dolores and the other pre-eminent spiritual centers (Grace Cathedral et al.), provide centuries of proof of humankind's unending religiosity.			
Mentoring	<i>Museums</i> - DeYoung, Asian Art, SFMOMA, Legion of Honor	University of California at San Francisco, San Francisco Conservatory of Music	San Francisco's many world-class museums provide obvious instructional opportunities in highly diverse subject areas. The same is true of the city's educational institutions, e.g., UCSF is one of the world's leading bio-med research institutions			
Self- Fulfillment	Performing Arts - Ballet, Opera, Symphony, American Conservatory Theater, City Lights Bookstore	Yerba Buena Center for the Arts, Walt Disney Family Museum	Arguably the preforming arts personify among the highest cultural expressions of the human condition, as much for the audiences as the creators (e.g., composers/playwrights/choreographers, musicians/actors/dancers.) Less exalted but nonetheless expressive are vanguard institutions like City Lights Bookstore, where Ginsberg's epic poem Howl was launched and defended.			
Elegance	Civic Center, Especially City Hall, Conservatory of Flowers, Garden Court in the Sheraton Palace Hotel	Coit Tower, Ferry Building, James Flood Building	Civic Center has been called the finest example of the City Beautiful movement in the United States, with City Hall as truly the crown jewel. Many could well argue that other edifices have an even greater fame to true elegance such as the must-see Conservatory of Flowers in Golden Gate Park and the Garden Court in the Sheraton Palace Hotel.			
Originality	Lombard Street, Transamerica Building, Farallon Islands	Telegraph Hill Parrots	Driving, walking, or (dare-devil) bicycling down "the crookedest street in the world" is undeniably a delightfully novel experience. San Francisco is home to numerous other only-place-in-the-United States experiences as well, including the iconic Transamerica Building.			
Revelation	Academy of Sciences, Exploratorium, Randall Museum	Zeum, Barbary Coast Walk, City Guide Tours	The Exploratorium is encompasses innumerable, completely hands-on, interactive, fascinating learning experiences. When the Exploratorium moves to its new over-water location on the Embarcadero, the opportunities for personal enlightenment will be even greater. Well formulated outdoor explorations on foot or by car (all free) are in the Honorable Mentions.			
Grandeur	Golden Gate Bridge, Bay Bridge, Palace of Fine Arts	Nob Hill, Russian Hill	Everyone who drives or walks across the Golden Gate Bridge is awed by the structure, but it is even more breath-taking when seen from sea level (from Fort Point or on a boat). Though not as well known, the Bay Bridge and other cited features certainly have grandeur about them as well.			
Selfhood	The Castro (Gay "Coming Out" Mecca), Union Square and Vicinity, Angel Island (Ellis Island West)	Cultural Institutions Jewish Museum, Chinese Cultural Center, Italian American Museum, Mexican Museum, etc.	Gays and lesbians gravitate from all over the world to the Castro to be able comfortably to be themselves. Shopping for oneself is only one manifestation of Selfhood, but Union Square is one of the best known places in the nation for such self-expression.			
Chronicle	Presidio Including National Cemetery, Fort Point, Civil War Era Housing, Cemetery, Etc.; Maritime National Historical Park; Haas- Lilienthal House	Wells Fargo Museum, California Historical Society Museum, Jackson Square	Given that San Francisco has been continuously occupied by Europeans and numerous other immigrant groups for well over two centuries, the city has both lengthy and high diversified historical, immersive landmarks.			
Kinship	Neighborhoods – Haight- Ashbury, North Beach, Japantown, Mission <i>(and many more)</i>	Parades Columbus day, Chinese New Year's, LGBT Pride, etc.; Sports Teams Giants, Forty-Niners, Etc.	San Francisco's many distinctive neighborhoods generate opportunities to enjoy the company of complementary personas, for visitors and residents alike. Such Kinship can actually transcend time and space, e.g., the Kinship of "The Summer of Love" in Haight Ashbury still reverberates worldwide.			

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BLOG

Exhibit 9 Continued

[Mother] Nature	Golden Gate Park including Japanese Tea Garden, Stowe Lake, Buffalo Herd, Etc., GGNRA, San Francisco Zoo	"Formal" Parks Huntington, Sidney Walton, Levi Strauss; Aquariums National Academy of Sciences and Pier 39	Opportunities to enjoy nature in Golden Gate Park are remarkably diverse and even unique within U.S. urban parks (e.g., the buffalo herd). Those opportunities notwithstanding, San Francisco is home to numerous other world-class urban parks (see the Honorable Mentions).		
Surety	Alcatraz, Fleet Week and the Blue Angels	Fort Point, USS Pampanito, USS Jeremiah O'Brien	Al Capone is perhaps the best know inmate of Alcatraz, and certainly establishes Alcatraz as a symbol of the triumph of law enforcement over evil doers. Similarly, Fleet Week provides ample evidence of the security provided by military forces culminating with the immensely popular Blue Angels flying among the city's skyscrapers.		
Synergy	Chinatown, Red and White Fleet Tour of the Bay	Union Square at Christmastime; Watching/Hearing/Smelling the Sea Lions at Pier 39; Events at the Cow Palace - - Circuses, Rodeos, Rock Concerts, etc.	Chinatown is especially popular among visitors and San Francisco's residents alike because of the exotic impacts on all senses sights and smells when moving through food stalls along Stockton Street, the non-stop chattering in a completely foreign language, the tactile experience of being in a tightly packed crowd, the singular quality of genuine Chinese meals, and on and on.		
Dynamism	Cable Cars, Historic Trolleys on Market Street and the Embarcadero, Hang Gliding at Fort Funston	49 Mile Drive	The Cable Cars are not only iconic but a vehicle (literally) for constantly-changing fun standing on the running board while going up and down very steep slopes, enjoying the bay window- centric architecture, checking out the street scenes, and catching glimpses of breath-taking vistas of the Bay. In recent years similar experiences have become possible riding several dozen Historic Street cars from around the U.S. and worldwide including a genuine New Orleans streetcar named Desire!		
Sensation	Fisherman's Wharf	Smell of the ocean; Sound of the carillons and fog horns; Tastes in restaurants (the most restaurants per capita in the world); Sight of pelicans, ferry boats and freighters; Feel of the air, especially fog	Fisherman's Wharf is known worldwide for its unusual sights, smells, sounds, etc. The not as widely known, the Honorable Mentions are equally if not more compelling experiences. (These Honorable Mentions are a small sampling of what the senses can experience in San Francisco.)		

We conclude that the 15 Beautiful Facets can indeed be associated with the empirical preferences of San Francisco's 16 million annual tourists. We cannot as yet say whether they do in fact have beautiful experiences consistent with our previous definition (i.e., "We say 'Beautiful!' when we experience a spontaneous and deeply appreciative connection between our true selves and our surroundings"). Arguably, though, the popularity of San Francisco's attractions among the ever increasing tens of millions of past and present visitors is due to some such deeply appreciative connection.

A Sidebar: Linking the Beautiful Facets to Entire Cities

We have been talking about features within cities that correspond to the 15 Beautiful Facets. Arguably, cities as a whole can represent one or more Facets. Exhibit 10 offers examples; the exhibit also includes relevant quotes about the Beautiful Facets, from the authors listed in Exhibit 1 and in the Addendum. (Recall that brief definitions of the Facets were provided in Exhibit 7.)

BEAUTIFUL FACETS	REPRESENTATIVE QUOTE	EXEMPLARY CITIES
Epiphany	<i>Emerson:</i> "Never lose an opportunity of seeing anything that is beautiful, for beauty is God's handwriting – a wayside sacrament."	Kyoto, Lhasa, Varanasi, Mecca
Mentoring	<i>Keats:</i> "Beauty is truth, truth beauty – that is all Ye know on earth, and all ye need to know."	Oxford, Cambridge, Princeton, Bologna
Self- Fulfillment	Sullivan: "It is the pervading law of all things organic and inorganicthat form ever follows function."	Venice, Mont Saint-Michel, Singapore
Elegance	<i>Aristotle:</i> "The chief forms of beauty are order and symmetry and definiteness, which the mathematical sciences demonstrate in a special degree."	Versailles, Forbidden City, Savannah

EXHIBIT 10

Exhibit 10 Continued

Originality	Bacon: "create strongly articulated nuclei built around beloved landmarks and institutions carefully distributed throughout the residential fabric, to establish powerful architectural imagery and rhythms"	Göreme City in the Cappadocia, Turkey; Dubai's Manmade Islands; Floating City in Aberdeen Harbor in Hong Kong
Revelation	<i>Lynch:</i> "The individual must perceive his environment as an ordered pattern, and is constantly trying to inject order into his surroundingsA distinctive and legible environment heightens the potential depth and intensity of the human experience."	Jerusalem, Rome, Istanbul, Marrakech
Grandeur	<i>Burnham:</i> "Make no little plans; they have no magic to stir men's blood and probably will themselves not be realized. Make big plans; aim high in hope and work, remembering that a noble, logical diagram once recorded will not die."	St. Petersburg (Russia), Washington DC, Angkor Wat
Selfhood	Burnham: "The civic center's beauty would reflect in the souls of the city's inhabitants, inducing order, calm and propriety therein."	Vienna, Budapest, London
Chronicle	Neill: "What is historic preservation?It is an equation between self and history so powerful that it makes us lie down in front of bulldozers, raise toppled statutes, salvage old boats."	UNESCO World Heritage Cities
Kinship	<i>Robert Park:</i> "The attraction of the metropolis is due in part to the fact that in the long run every individual finds somewhere among the varied manifestations of city life the sort of environment in which he expands and feels at easethat bring his innate dispositions to full and free expression."	Neighborhood-Centric Cities: New York (e.g., Greenwich Village, SoHo, Harlem, Upper East Side, Little Italy); Paris (Ile de la Cite, Marais, Montmartre, Latin Quarter, St. Germain-des-Pres), San Francisco (North Beach, Haight Ashbury, The Castro, Mission District)
[Mother] Nature	<i>Joyce Kilmer:</i> "I think that I shall never see A poem lovely as a tree"	Natural beauty both within and around: Vancouver, Lucerne, and "Garden Cities" e.g., Letchworth (UK), Radburn (USA)
Surety	Newman: "Defensible space is defined as a term used to describe a residential environment whose physical characteristics — building layout and site plan — function to allow inhabitants themselves to become key agents in ensuring their security."	Toledo and Avila (Spain); Dubrovnik (Croatia); Carcassonne (France); Taroudant (Morocco); Xi'an (China)
Synergy [of the Senses]	<i>Fitch:</i> "The aesthetic enjoyment of an actual building cannot be merely a matter of vision, it can only be a matter of total sensory perceptionOnly by manipulating the physical properties of his environment – heat, air, light, color, odor, sound, surface, space – can the architect communicate with his client at all."	Hong Kong; Macau, Bangkok
Dynamism	<i>Bacon:</i> "The changing visual picture is only the beginning of the sensory experience; the changes from light to shade, from hot to cold, from noise to silence, the flow of smells associated with the spaces, and the tactile quality of the surfaces underfoot, all are important to the cumulative effect."	Actually Moving Cities "The World" Floating Luxury Community and Selected, Very Large Cruise Ships Always on the Go "24 Hour" Cities Cairo, Madrid, Barcelona, Buenos Aires
Sensation	Webster's Dictionary: "having qualities that give great pleasure or satisfaction to see, hear, think about, etc.; delighting the senses or mind"	Stockholm, Jodhpur, Rio De Janeiro (especially during Carnival)

What Does All This Have to Do with You?

The adage that "beauty is in the eye of the beholder" is in fact the case. Each of us has a different perspective on beauty because experiencing beauty is a highly personalized event. To again quote Dr. Ethel Puffer Howes: "The beautiful object possesses those qualities which bring the personality into a state of unity and self-completeness." Each of us has a different personality, and hence each of us has a different reaction to a potentially beautiful object.

Accordingly:

- 1. Since each of us perceives beauty differently, each of us will have different preferences among the 15 Beautiful Facets. I might resonate the most to the Beautiful Facet of Grandeur, while you might have the greatest connection with the Beautiful Facet of Elegance.
- Correspondingly, each of us will have different favorite features in a city. Continuing with the above example, I
 will find myself most interested in San Francisco's Grandeur features (e.g., the Golden Gate Bridge) while you will
 be attracted to the city's Elegance features (the Conservatory of Flowers in Golden Gate Park).

- 3. Taking a broader view, <u>if a method can be found for determining which Facets each of us favors (Grandeur vs.</u> <u>Elegance vs. other Beautiful Facets), that information can be used to advise us on which features of San</u> <u>Francisco each of us should be sure to visit.</u>
- 4. For that matter, <u>we would then have guidance for the beautiful features to visit in other cities worldwide</u> as well, if the features of those cities have been classified according to the 15 Beautiful Facets.
- 5. Thus, the benefits to you:
 - a. Comprehending the full spectrum of civic beauty, from "Sensation" to "Epiphany";
 - b. Articulating to others whatever you find beautiful about a building, park, etc.;
 - c. Of far reaching significance finding, appreciating, and promoting civic beauty from now on, wherever in the world you go.

Developing such a method and applying it to multiple cities around the world of the benefit of everyone being able to discover what is beautiful for them in each locale – that is <u>the ultimate purpose of CitiesBeautiful.org</u>.

So, let's now turn to the development of such a method.

5. PERSONALIZED TEST OF WHAT IS BEAUTIFUL TO YOU

This section provides a brief introduction to the interactive method that has in fact already been developed:

- The "Civic Beauty Ranking Test (CBR)" available at the tab by the same name at CitiesBeautiful.org, and
- The related "Cities Beautiful Index (CBI)" calculated for each of the cities analyzed at CitiesBeautiful.org.

Again, the purpose of the CBR test is to determine <u>your</u> personal preferences among the 15 Beautiful Facets. You will then be able to use this information about yourself for predicting what features in San Francisco and other cities you will find the most beautiful, articulating to others what you find to be the most beautiful, etc.

Civic Beauty Ranking (CBR) Test

The CBR is a psychometric questionnaire, somewhat like a Myers Briggs personality assessment test. At the CBR tab at CitesBeauiful.org you will find a list of 45 civic features, each of which you will score on a scale of 1 (lowest) to 10 (highest) based on how beautiful the object is to you. Your answers will then be analyzed and a chart like the one in Exhibit 11 will be displayed:





The chart shows which Beautiful Facets resonate with you the most, next most, and so on down to the least. In this example, the person taking the test has highest affinity with the Facets of Epiphany, Elegance, Selfhood and Synergy. Consequently, when in San Francisco this person should be sure to visit the corresponding Principal Features and Honorable Mentions of Epiphany, Elegance and Chronicle listed previously in Exhibit 9 and reproduced in Exhibit 12.

BEAUTIFUL FACETS	PRINCIPLE FEATURES	HONORABLE MENTIONS
Epiphany	Mission Dolores	Other Churches/Temples Grace Cathedral , New St. Mary's Cathedral, Temple Emanu-El
Elegance	Civic Center, Especially City Hall	Conservatory of Flowers, Coit Tower, Garden Court in the Sheraton Palace Hotel, Ferry Building, James Flood Building
Chronicle	Presidio Including National Cemetery, Fort Point, Civil War Era Housing, Cemetery, Etc.	<i>Chronology Icons</i> (Mission Dolores, Presidio, Maritime National Historical Park, Jackson Square, etc.); <i>Lifestyle Icons</i> (Mission, Big Four Mansions, Chinatown, Alamo Square, Haight Ashbury, etc.)

EXHIBIT 12

At CitiesBeautiful.org, clicking on San Francisco menu option on the left side of the webpage will pull up a map of all that city's Principle Features color- and number-coded by the 15 Beautiful Facets. For example, the above Epiphany, Elegance, and Chronicle features are identified (respectively) with these three symbols:



Clicking on any icon generates a pop-up box with additional information. Exhibit 13 shows the interactive map available at the San Francisco page of CitiesBeautiful.org, a sample pop-up box, and a condensed version of the map's legend.



<u>The same process holds for all the other cities portrayed at CitiesBeautiful.org</u>. The features of each of the cities at the website have been evaluated by the author vis-à-vis the 15 Beautiful Facets, and identified by their primary Beautiful Facet affiliation. Accordingly each person taking the CBR test obtaining a ranking of Beautiful Facets like the example in

Exhibit 11 can prioritize features to visit in the websites of many cities, in the same manner as the above Epiphany-Elegance-Chronicle example for San Francisco!

Cities Beautiful Index (CBI)

A CBI is calculated and reported for each city at the CitiesBeautiful.org website, in the manner to be described in a moment. The usefulness of the CBI is two-fold:

- 1) The CBI allows a numeric comparison of the overall civic beauty of multiple cities, on a scale of 1 to 100 (the higher the score, the greater the civic beauty).
- 2) To calculate the overall CBI, a score is also calculated in each city for each of the 15 Beautiful Facets and displayed in chart form, again on a scale of 1 to 100, so that an observer can at a glance determine which of the Beautiful Facets are a city's forte and which Beautiful Facets are less so.

Correspondingly, you can utilize this information two ways:

- 1) By comparing the overall CBIs of multiple cities, you can prioritize the order in which you will investigate the civic beauty among them; that is, you would likely first visit the city receiving the highest score, then the city with the next highest score, and so on.
- 2) If the results of your CBR test showed that (using our previous example) your highest rated Beautiful Facets are Epiphany, Elegance and Chronicle, you could glance through the component CBI scores of each city to quickly determine which cities have those Facets as their strong suits, and hence decide whether to visit those cities first.

Here is an example of the Cities Beautiful Index chart displayed for each of the cities analyzed at CitiesBeautiful.org. Exhibit 14 shows the analysis results for San Francisco. The city has an overall CBI of 62, with particularly strong scores in the Beautiful Facets of Kinship, Elegance, Originality, etc.





How are each city's overall CBI and component Beautiful Facets scored? The process has seven steps:

- For each of the Beautiful Facets, a city's three best Principle Features are identified based on various thirdparty sources and the author's personal experience. A city might have more than three Principle Features for a given Beautiful Facet, but only the top three are considered. The number of Principle Features to be included in the CBI calculation is thus 3 x 15 = 45 Principle Features.
- Each of the Principle Features is rated by the author on a scale of 1 to 3, broadly speaking as follows:
 - 3 = World Renowned
 - 2 = Well Known and/or Very Special
 - 1 = Not So Well Known But Nonetheless Special

- The scores of the three Principle Features for each Beautiful Facet are then summed.
- For each of the 15 Beautiful Facets, the number of Honorable Mentions is also counted. This number (up to a maximum of 4 Honorable Mentions) is added to the previous sum of the Principle Features.
- The combined score of the Principle Features and Honorable Mentions for each of the 15 Beautiful Facets is normalized on a scale of 1 to 100.
- The overall CBI is the average of the normalized scores for the 15 Beautiful Facets.
- Finally, a bar chart like the above one in Exhibit 14 is generated for the 15 Beautiful Facets.

As an example, the calculations for San Francisco that led to the bar chart in Exhibit 14 are shown below in Exhibit 15. Addendum III provides the same detailed CBI scoring for all the cities analyzed at the CitiesBeautiful.org website.

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RESULTING OVERALL CBI SCORE = 62.1	Sensation	Fisherman's Wharf	3	Panoramas Top of the Mark, Twin Peaks, Golden Gate Bridge Toll Plaza, etc.	3	Ocean Beach	1	7	1	61.5
						RESU	JLTING	OVERALL (CBI SCORE =	62.1

Finally, Exhibit 16 compares the Cites Beautiful Indices of the initial 20 cities analyzed at CitiesBeautiful.org. Am these, Paris scores as the most beautiful with an overall CBI of 64.1, while Fez comes in last with an overall CBI	Lities Beautiful	BEAUTIFUL FACETS	RANKING TEST	CITIES	DETAILS	ABOUT US	BLOG	SITEN
EXHIBIT 16	Finally, Exhibit 16 compares these, Paris scores as the n	s the Cites Beautiful Ind nost beautiful with an ov	lices of the initial verall CBI of 64.1	20 cities ar , while Fez	nalyzed at C comes in la	itiesBeautiful ist with an ov	org. Amerall CBI	ong of 44.1.
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Statistical Significance of CBR Test Results

In mid-August 2014, CitiesBeautiful.org retained an independent statistician to test for statistically significant relationships in the test results of 453 people who had taken the Cities Beautiful Ranking test as of that date. More specifically, the statistician addressed these questions:

- 1. Are there any statistically significant relationships between the demographics of the test respondents in comparison with:
 - The scores they gave to each of the 15 Beautiful Facets? For example, do the scores of the 15 Beautiful • Facets vary significantly between males and females, between older and younger people, etc.?
 - The respondents' education level?
 - The cities they cited as the most beautiful, and so on, as arrayed in the interactions chart?
- 2. Are there any statistically significant relationships between the scores of any two Beautiful Facets? For example, does the average score for Epiphany correlate statistically significantly with that of Mentoring?
- 3. For well-traveled respondents (i.e., who have traveled to at least eight countries), is there a statistically significant relationship between the scores they gave to the 15 Beautiful Facets and the Cities Beautiful Index (CBI) scores of Beautiful Facets for the city they cited as the most beautiful?
- 4. Overall:

Cities

- Can any of the above analysis test results taken individually or collectively be taken as statistically significant evidence that the 15 Beautiful Facets are not just random concepts (the null hypothesis) but are if fact worth pursuing further?
- Is there some other type of test that should have been/could be performed to more directly address the "overall purpose"?

Without at this time going into the rigorous details of the statistician's findings, suffice it to say that numerous statistically significant relationships have been documented, thereby validating the Beautiful Facets methodology and laying the groundwork for further statistical research.

6. CONCLUSIONS

At the beginning of this document we posed these questions: San Francisco is "everyone's favorite city" – but what makes San Francisco beautiful to each of us? How can we ensure that we are enjoying San Francisco's beauty to the fullest? Moreover, could some of what we find beautiful about San Francisco also be recognized and appreciated in other cities around the world, including in our home towns? At a deeper level, what do our individual concepts of beauty reveal about our perceptions, our motivations, even our priorities in life?

We have now answered those questions, as follows:

- ★ We have been able to create a Beautiful Schema and corresponding 15 Beautiful Facets from a review, synthesis, and elaboration of the preeminent works of aesthetic philosophers, architects, city planners, behavioral psychologists, etc., over the last 2,600 years.
- * We have demonstrated empirical connections between tourist visitations and the 15 Beautiful Facets in San Francisco; as a corollary, San Francisco has multiple civic features in each of the 15 Beautiful Facets.
- ★ We have constructed a Civic Beauty Ranking (CBR) Test based on the 15 Beautiful Facets, that allows anyone to determine her/his preferences among the Beautiful Facets, that is, to clearly identify and understand our personal version of "beauty is in the eye of the beholder".
- ★ We have also constructed a Cities Beautiful Index (CBI) for measuring each city's overall civic beauty for numerical comparison to other cities; in the process of calculating the CBI, we also have scored each of the 15 Beautiful Facets for ready comparison to other cities on a Facet by Facet basis.
- ★ <u>We have been informed that the Beautiful Facet methodology has merit based on independently-conducted</u> <u>statistical tests.</u>
- ★ Each of us can utilize her/his CBR scores of the 15 Beautiful Facets and the CBI scores in prioritizing visits to the beautiful features of cities around the world, as presented at the CitiesBeautiful.org website – as well as anyplace else in the world.

Here is a final conclusion, not previously asserted. Arguably San Francisco is considered a beautiful city because of its broad coverage, its wealth of beautiful features, no matter which Beautiful Facets is examined. Stated differently, San Francisco offers something personally beautiful to everyone, no matter what that person's particular CBR profile may be. Thus, the greater the number of the 15 Facets that are genuinely fulfilled by the civic features in a given city – that is, the greater the extent to which the city holds something for everyone, regardless of her/his particular "beauty in the eye of the beholder" – then the more widely recognized will be that city as "beautiful".

* * * * *

In closing, armed with your new knowledge of what civic beauty means to you, now by all means immerse yourself in the rest of the CitiesBeautiful.org website for even greater, highly personalized understanding, appreciation, and enjoyment of civic beauty worldwide!

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ADDENDUM I – BIOGRAPHIES OF WESTERN AESTHETIC PHILOSOPHERS ET AL.

	AUTHOR	CONTRIBUTIONS
	Pythagoras Greek Philosopher 569 BC - 475 BC	Pythagoras believed that beauty was associated with the ratio of small integers, based on research he conducted with musical instruments. He thereby initiated a movement of philosophers from Ancient Greece onward who believe that the world is beautiful because there is a mathematical proportion, order, balance, and especially harmony underlying everything from music to nature. Further, aesthetic experiences and exercises of reason are understood as a necessary process and training to cultivate the soulToday, the observations of aesthetic philosophers are classified into two groups: PYTHAGOREAN those who recognize beauty through reason-based, contemplative experiencing of music, mathematical formulas, patterns in nature, so on; and PLEASURE-PRINCIPLE those who find beauty via the pleasures of the senses, including sights, sounds, tastes, etc.
	Plato Greek Philosopher 427 BC - 347 BC	Beauty finds its most significant treatment in the <i>Symposium</i> in a speech by Socrates, in which a distinction is made between (a) the beauty of things and properties as perceived by our senses, and (b) The Beautiful itself – as Plato calls the external, unchanging, and divine form of Beauty, accessible not to the senses, but only to the intellect. For Plato, as stated in <i>Law Books II</i> , beauty had one main quality <i>"Apart from any pleasure art may give, its quality rests explicitly in its truth or rightness, i.e., its Measure ("equal proportions"), and should only be judged in terms of its Measure."</i> As a corollary, Plato is adamant that <i>pleasure</i> is a completely unreliable way of evaluating beauty.
	Aristotle Greek Philosopher 384 BC - 322 BC	In his <i>Metaphysica</i> Aristotle supports Pythagoras: "The chief forms of beauty are order and symmetry and definiteness, which the mathematical sciences demonstrate in a special degree." In <i>Nicomachean Ethics</i> Aristotle adds this dimension: <i>"It is not possible either to take away or to add anything, implying that excess and defect destroy the goodness of works of art"</i> . Further afield, however, Aristotle maintains that beauty derives from the nature of the beautiful thing in question, and is context-dependent. In the <i>Rhetoric</i> he gives the example that a man's beauty changes as he ages and has different functions. The beautiful young man is one who competes athletically; the beautiful man of middle age can frighten enemies in a battle; and the beautiful old man holds up against the insults of age.
	Marcus Vitruvius Pollio Roman Engineer and Archite 70 BC? - 25 BC	In his one extant work, <i>De Architectura ("On Architecture")</i> , Vitruvius discusses in ten encyclopedic chapters aspects of Roman architecture, engineering, and city planning. Because it is the only antique treatise on architecture to have survived, <i>De Architectura</i> has been an invaluable source of information over the centuries. For example, the work directly led to the revival of classicism during the Renaissance and subsequent periods. According to Vitruvius, architecture rests on a balance of three principles: <i>Beauty</i> [emphasis added], Firmness, and Utility.
	Saint Thomas Aquinas Italian Theologian and Philosopher 1225 -1274	In <i>Summa Theologiae</i> , Aquinas posits that beauty is a characteristic of the divine which we come to know through our experience of its manifestations on earth. He gives three distinguishing characteristics of beauty: wholeness or integrity, proportion or harmony, and – the principal characteristic – "claritas", which can be translated splendor, light, brilliance, and especially radiance. Moreover, the beautiful illuminates our intellectual understanding of everything around us. (This is in contrast to theories that pleasure aroused by beauty is biological, i.e., associated with physical desires and satisfactions.)
	Francis Hutcheson British Philosopher 1694 -1746	Hutcheson argues in <i>Inquiry into the Origin of Our Ideas of Beauty and Virtue</i> that the pleasure of beauty comes not from our intellect but from our senses. Specifically, beauty is discovered in a "compound" of the qualities of uniformity and variety. He sometimes substitutes "order" and "regularity" for "uniformity", and treats "complexity" as synonymous with "variety." Generally speaking, then, we derive the pleasure of beauty from objects to the extent that we perceive complex order within them.
	William Hogarth English Painter and Printmaker 1697 - 1764	In his book <i>The Analysis of Beauty</i> , Hogarth summarizes a lifetime of artistic and aesthetic insights. Excerpts: "VARIETY – How great a share variety has in producing beauty may be seen in the ornamental part of nature. All the senses delight in it, and equally are averse to samenessINTRICACY – It is a pleasing labour of the mind to solve the most difficult problems; allegories and riddles. The eye hath this sort of enjoyment in winding walks, and serpentine riversQUANTITY – Forms of magnitude, although ill-shaped, will however, on account of their vastness, draw our attention and raise our admiration. [For example] high grown trees, great churches, and palaces."
TE	David Hume Scottish Philosopher 1711 - 1776	In contrast to Hutcheson and other contemporaries, Hume argues in his book <i>Of the Standard of Taste</i> that the pleasure of beauty involves both senses and reason, and takes not just one but many forms in objects. Moreover, appreciating beauty requires the development of "taste", which nearly everyone can achieve with appropriate training. (Just as a person with a bad cold cannot truly judge the quality of a meal, an inexperienced person cannot truly judge art.) Hume catalogs and describes the defects that prevent our taking pleasure in works "fitted by nature" to please us.

Cities Bea	autiful BEAU	TIFULFACETS	RANKING TEST	CITIES	DETAILS	ABOUT US	BLOG	SITEMAP
	Immanuel Kant German Philosopher 1724-1804	Kant's Critique Kant says expo using our judg beauty of an ol mental state. purposive state like perceiving profound truth	e of Judgment can be eriencing beauty is a ment (involving both bject via the feeling o That is, we experience e of the mind." More a solution to a proble about the nature of b	considered th two-part proc imagination a of pleasure of the beauty "not over, the plea em and enjoyi being – which	he foundation hess. First, we nd understand the harmony of as a thought, sure is not ego ing it for its ow in turn is deep	of modern aesthe perceive the forr ling). Second, w of our abilities and but as an interna ocentric. The ple n sake, or even o ly pleasurable.	etic philosop m of the obje e acknowled d awareness al feeling of a asure of bea discovering	hy. ect by ige the s of our a auty is some
	Pierre Charles L'Enfant French and American Architect, Civil Engineer, and City Planner 1754 - 1825	Commissioned principles emp concepts embr on baroque tra model for Ame power of the U	I by President Georg loyed by Domenico F raced by Andre Le Ni ditions of design use rrican city planning an nited States.	e Washington Fontana in re- otre in the pal d in transform nd a symbol to	n, L'Enfant's pl planning of Ro ace and garde ning Paris. The o other nations	an for Washingto ome under Pope en of Versailles (1 e plan was intend s of the emerging	on D.C. is ba Sixtus V (15 661 onward ed to be bot governmen	ised on 85); on I); and :h a ital
	Georg Wilhelm Friedrich Hegel German Philosopher 1770 - 1831	Over history hu world, just as s the mind from throughout his nature. Famou art" – that is, a essence.	uman beings gradual self-knowledge devel infancy to adulthood. tory. Hegel is therefo usly, in his renowned rt can no longer be a	ly expand and ops by stages Hegel is inte ore concerned <i>Lectures on</i> proper vehicl	d deepen their s over time. An rested in art's d with the beau <i>Aesthetics</i> (18 le for humanity	knowledge of the t plays a part in the role in the develouty of art, but not 18-1821) he ann v's comprehension	emselves ar ne developm opment of m the beauty o ounced "the on of its own	id their nent of ind of death of
	John Keats English Poet 1795 - 1821	Keats was one work only havir perfection of po philosophy thro	of the main figures on ng been in publication betry marked by vivic bugh classical legend	of the second n for four year l imagery, gre l.	generation of rs before his d at sensuous a	English romantic eath. He devote ppeal and an atte	poets despi d his short li empt to expr	te his fe to the ess a
G	Ralph Waldo Emerson American Essayist, Lecturer, and Poet	Emerson was a individual spirit documents in d	a central member of tual potential and hur 19th-century America	the Transcend mankind's unit n literature ar	dentalist cultur ty with nature. nd thought.	al movement, wh His essays and	nich emphas poems are r	ized najor
R	William James American Philosopher, Psychologist and Academic 1842 - 1910	James was a p educator to off pragmatism, p mysticism.	philosopher and psyc er a psychology cour sychology, educatior	hologist who se in the Unit al psychology	had trained as ed States. Jai /, the psycholo	a physician. He mes wrote influer ogy of religious e:	was the firs ntial books c xperience, a	.t in nd
FA	Camillo Sitte Austrian Architect, Art Historian, and City Planning Theoretician 1843 - 1903	City Planning A urban planning throughout Eu Sitte proposed medieval and f visual obstacle	According to Its Artisi , was extremely well rope. Architects and urban designs base Baroque cities, whos s.	<i>tic Principles,</i> received and urban planner d on analyses e streets were	Sitte's 1889 tr I resulted in nu rs rediscovere of historic city broken up by	eatise on the bas imerous planning d Sitte's importar / plans. His favor monuments, squ	ic questions ordinances nce in the 19 ite models v uares, or oth	r of 170s. vere her
G	Daniel Burnham American Architect and Cit y Planner 1846 – 1912	Burnham is are "White City" at during its heyd architectural co DC to San Fra encompassing beauty, order, boulevard syst environment. such as lampp naturalistic and	guably the father of the the 1893 World's Co- lay from about 1900 obesion, and influence ncisco. Americans at a cultural agenda, a system and harmony ems, or extensions a So were ordinary stre osts, and carefully se d classic forms, an in	ne City Beauti lumbian Expo to 1910, repre- ted design and tempted to re middle-class y. Public and and embellish tet improvement elected and man portant Europ	iful movement, osition in Chica esented the ep d planning in e fashion their c environmenta semipublic bu ments of them ents, including aintained tree bean legacy.	which was first ago. The City Bea itome of city plar every American c ities into beautifu lism, and aesthe ildings, civic cent , were the tokens good paving, att s. Aesthetically, i	personified i autiful move ning and ity from Was I, functional tics express ers, park an s of the impr ractive furni t blended	n the ment, shington, entities, ed as id oved ture
North Contraction	Ebenezer Howard British City Planner 1850 - 1928	Howard read w book in 1898 ti of To-Morrow. advance, and s attention and fi garden city, W Towns" after W communities ir such as Freder	videly and thought de titled <i>To-Morrow: A P</i> This book called for surrounded by a perr inancial backing to b elwyn, was started a Vorld War II by the B in the United States a rick Law Olmstead II	eeply about ur eaceful Path t the creation o nanent belt of egin Letchwor fter World Wa ritish governm s well as Engl	ban social issu to <i>Real Reform</i> f new suburba f agricultural la th, a garden c tr I. These tow tent. This mov and. His ideas	ues, and out of co a, reprinted in 194 in towns of limite ind. His ideas at ity in suburban L ns led to the devi- ement produced a also inspired ma	Difference and Difference and a size, plant tracted enou- ondon. A se elopment of more than 3 any other pla	 → his n Cities ned in igh cond "New 30 anners,

Cities Bea	utiful BEAU	TIFULFACETS RANKINGTEST CITIES DETAILS ABOUTUS BLOG SITEMA
	Louis Sullivan American Architect 1856 - 1924	Sullivan is widely considered America's first truly modern architect and the father of the modern skyscraper, was a major contributor to the "White City" that initiated the City Beautiful movement, and was a mentor to Frank Lloyd Wright (who referred to him as Lieber Meister – "beloved master"). He admired rationalist thinkers like Thoreau, Emerson, and Whitman. His famous credo is "form follows function," that is, that the shape of a building or object should be primarily based upon its intended function or purpose.
R	John Dewey America Philosopher, Psychologist and Academic 1859 – 1952	Dewey's ideas have been influential in education and social reform. He was one of the founders of functional psychology, and a major representative of progressive education and liberalism. Although Dewey is known best for his publications concerning education, he also wrote about many other topics, including experience, nature, art, logic, and ethics.
	Robert Park America Sociologist and Academic 1865 – 1944	Park was an urban sociologist who is considered to be one of the most influential figures in early U.S. sociology. He played a leading role in the development of the Chicago School of sociology. Park is noted for his work in human ecology.
X	Frank Lloyd Wright American Architect and City Planner 1867 – 1959	Broadacre City was Frank Lloyd Wright's Utopian vision of the physical, economic, democratic, and of course architectural landscape of America. This design presupposed that the city was going to the country, would typically encompass four square miles, and would totally decentralize the American urban landscape. Studding the landscape of Broadacre City would be "Usonian" houses and solitary skyscrapers of Wright's design, and a wide variety of buildings needed to service the community. The plan was never implemented anywhere, but it did foreshadow the decentralization that occurred after World War II.
	Ethel Puffer Howes American Philosopher, Psychologist and Academic 1872 - 1950	Puffer's academic career in the field of psychology included professorships at Wellesley, Smith, and Simmons. Her doctoral thesis was published in 1905 as <i>The Psychology of Beauty</i> . In her book, she comprehensively examines and merges the fields of aesthetic philosophy and psychology. "I believe the way is at last opened from the traditional philosophy of aesthetics to a healthy and concrete psychological theory. Our philosophical definition of Beauty has thus taken final shape. The beautful object possesses those qualities which bring the personality into a state of unity and self-completeness. Thus the Nature of Beauty is in the relation of means to an end; the means, the possibilities of stimulation in the motor, visual, auditory, and purely ideal fields; the end, a moment of perfection; but the beauty of an object lies in its permanent possibility of creating the perfect moment. The experience of this moment, the union of stimulation and repose, constitutes the unique aesthetic emotion."
	Le Corbusier Swiss Architect and City Planner 1887 - 1965	From Plato, Corbusier extracted a rejection of realist representations and a concentration on getting at the true nature of an object, without ornament of any kind. The true forms were geometric, stylized shapes and figures. Le Corbusier dominated the architectural world, from 1920 until his death in 1965. He inspired several generations of architects not only in Europe but around the world. He was also a city planner. "Modern town planning comes to birth with a new architecture," he wrote in a book titled simply Urbanisme. People would live in hygienic, regimented high-rise towers, set far apart in a park like landscape. This rational city would be separated into discrete zones for working, living and leisure. Above all, everything should be done on a big scale– big buildings, big open spaces, big urban highways. He called it La Ville Radieuse, the Radiant City. Automobile traffic was to circulate on pilotus supported roadways five meters above the earth. The entire ground was given as a "gift" to pedestrians. Legacies of the Radiant City can be found in Chandigarh, India; Brazili, and various urban-renewal projects in the United States, including Golden Gateway Center in downtown San Francisco.
	Lewis Mumford American Historian, Sociologist and Literary Critic 1885 – 1990	Mumford was internationally renowned for his decades of writings on cities, architecture, technology, literature, and modern life. Among his many awards was the Presidential Medal of Freedom. From his landmark book <i>The City in History:</i> "If we are to create balanced human beings, capable of entering into worldwide cooperation with all other men of good will – and that is the supreme task of our generation, and the foundation of all its other potential achievements – we must give as much weight to the arousal of the emotions and to the expression of moral and <i>esthetic values</i> [emphasis added] as we now give to science, to invention, to practical organization. One without the other is impotent."
	Louis Wirth American Sociologist 1897 - 1952	In <i>Classic Essays on the Culture of Cities</i> , Wirth explains the reasons behind differentiated urban neighborhoods. "Persons of homogeneous status and needs unwittingly drift into, consciously select, or are forced by circumstances in the same area. The different parts of the city acquire specialize functions, and the city consequently comes to resemble a mosaic of social worlds in which the transition from one to the other is abrupt."

Cities Bea	autiful BEAUT	TIFUL FACETS	RANKINGTEST	CITIES	DETAILS	ABOUT US	BLOG	SITEMAR
Contraction of the second seco	Abraham Maslow American Psychologist and Academic 1908 - 1970	In his books A 7 hierarchy of hun the deficiency n each of these ne individual will ac the growth need included only or self-actualization actualization an Aesthetics.	Theory of Human Mo nan needs based or eeds, each lower ne eeds has been satis at to remove the defi is if and only if the d ne growth need– sel n, specifically namin d one beyond that le	Divation and I in two grouping aed must be in fied, if at som ciency. Accor leficiency nee f-actualizatior ig two lower-Id avel: One of th	Motivation and gs: "deficiency net before mov e future time a ding to Maslov ds are met. M n. Maslow late evel growth ne nose subseque	I Personality, Ma needs" and "gro ving to the next h a deficiency is de w, an individual is aslow's initial con- er differentiated the eds prior to gene- ently defined gro	slow posited wth needs". higher level. (tected, the s ready to ac nceptualization he growth ne eral level of s wth needs w	a Within Once t upon on eed of self- /as
	James Marston Fitch American Architect, Preservationist and Academic 1909 - 2000	Fitch asserted th discrete propert impact upon hin vision, but must mechanisms are system (gravitat	hat all architects asp y of the building. Be n. Thus the aesthet indeed be a matter e visual, auditory, gu ional).	bire to give the eauty describe ic enjoyment of total senso ustatory, olfac	eir clients bear es, rather, the of an actual bo ory perception. tory, haptic, pl	utiful buildings client's response uilding cannot be The seven biole roprioceptive (ve	but "beauty" to the build merely a ma ogical percep stibular), stru	is not a ing's atter of otual uctural
-	Edmund Bacon American City Planner 1910 - 2005	One of the most the building of c cerebral activity self to make a fu a sense of conn	t prominent city plan ities is one of man's ; it engages the full ull response to it pos ection with a systen	ners of his tin greatest ach range of sens ssibleThe ci n greater than	ne, Bacon wro ievements. "A es and feeling ity is a people himself man	te in his book <i>De</i> wareness of spa js, requiring invol s art, a shared e achieves aesthet	esign of Citie ace goes far lvement of th xperience tic satisfactio	s that beyond te whole Through on."
	Paul MacLean American Physician and Neurologist 1913 - 2007	(1990) MacLear and brain resea Health. As posit rather than just upon the older li- neo-mammaliar connected by ne capacities.	n made significant or rch through his work ed in his book <i>The</i> one. Each of the th ayer before it, like a h brain, the limbic or erves to the other tw	ontributions ir c at Yale Med <i>Triune Brain ii</i> ree brains em n archaeologi paleo-mamm ro, each brain	n the fields of p ical School an <i>n Evolution</i> , hu bodies an evo cal site. He de nalian system, operates as it	bhysiology, psych d the National In umans have three lutionary stratum fines the three a and the reptilian is own system wi	hiatry, stitute of Me e distinct bra h that has for s the neocor brain. Thou th distinct	ntal iins med rtex or igh
	Jane Jacobs Journalist, American City Planning Activist 1916 - 2006	Her The Death texts of the 20 th beginnings with attempting to su to art and to life. between them is use give to a cit that truly compri	and Life of Great An century. Jacobs ma the unsuitable aim of bstitute art for life, c . Although art and lif s, in part, why efforts y appropriate structu ise a city.	nerican Cities aintains that n of converting city designers ie are interwo s at city desig ure and shape	as been one of nodern city pla cities into disc should return ven, they are of n are so disap e. The empha	of the most influe inning has been iplined works of a to a strategy tha not the same thir pointing. Only in sis must be on th	ential urban p burdened fro art. Instead t is ennobling ngs; confusio tricacy and v ne bits and p	olanning om its of g both ภา vitality of ieces
	Kevin Lynch American City Planner and Academic 1918 - 1984	As an MIT profe city planning thr landscape – and known book is 7 a high probabilit arrangement wh mental images of the paths, visual might be genera an order pattern perceptions are	essor and practicing ough empirical rese d how to use that inf <i>The Image of the Cit</i> try of evoking a strom hich facilitates the m of the environment. I contrasts – seeme alized in the followin a, and is constantly t jointed one to the o	consultant, L arch on how i ormation to in y. Imageabilit g image in ar aking of vivid Certain featu d to be of par g hypothesis: rying to inject ther.	ynch provided ndividuals per nprove city pla y" is that quali y given obser ly identified, p res – open sp ticular importa The individua order into his	seminal contribu ceive and naviga inning and urban ty in a physical o ver. It is that sha owerfully structur ace, vegetation, nce to the citysc I must perceive h surroundings, sc	tions to the f ate the urban design. His bject which ape, color or red, highly us sense of mo ape. These f his environme o that all the	ield of best gives it seful tion on findings ent as relevant
	Ronald Hepburn Scottish Philosopher and Academic 1928 - 2008	Hepburn was a "Contemporary for philosophers	pioneer in the field of Aesthetics and the I s by challenging ther	of philosophic Neglect of Na n to devote a	al aesthetics. tural Beauty," s much attenti	His groundbreak founded a whole on to nature as t	ing 1966 pap new area of o art.	ber, i inquiry
3	Oscar Newman American Architect and City Planner 1935 - 2004	Newman's <i>Desi</i> Prevention Thro whose physical security. The pl territoriality and safe living envir	gn Guidelines for Co ough Environmental characteristics – bu hysical elements tha community among i onment.	reating Defen Design (CPTI ilding layout a at are used to inhabitants, st	sible Space is ED). The term and site plan – create defens timulating their	one of the princi describes a res allow inhabitant ible space foster r taking responsi	pal texts on idential envir s to ensure the a sense of bility for pres	Crime ronment heir own serving a

Cities Bea	utiful BEAUT	TIFULFACETS	RANKING TEST	CITIES	DETAILS	ABOUT US	BLOG	SITEMAP
B	Clayton Alderfer American Psychologist and Academic 1940 -	Alderfer is a participation of the second se	sychologist who furth his ERG theory (Exis ory to go along with t en individuals redoub	er developed tence, Relate the ERG theo ble the efforts	Maslow's hier dness and Gro ry, positing tha invested in a lo	archy of needs b owth). Alderfer al t when needs in ower category ne	y categorizin so proposed a higher cate eed.	ig the a egory
S	Peter Neill American Preservationist and Academic 1941 -	Previously Pre Director of the education.	esident of the South S World Ocean Obser	Street Seaport vatory. He ha	t Museum from s always been	1985-2005, Nei a strong propon	ill is the curre ent of maritir	∍nt ne
(Eugene Mathes American Psychologist and Academic 1951 -	Dr. Mathes' re sexual coercic	search interests focu on, etc. As an organiz	s on physical ing framewor	attractiveness k, he uses evo	, romantic love, lutionary psycho	romantic jeal logy.	ousy,
Ien	Steven Schloeder American Theologian and Architect 1960 -	In his book A a designing build functional nee building, a buil physicality, bu beauty."	Return to Humane Ar dings for both the boo ds, its end is the mak lding which not only h t one that is intended	rchitecture, So dy and souli king of someth nouses and pi I to nourish ou	chloeder states in addition to p ning beautiful. rotects and acc ur soul with me	that architecture roviding for the u That which is to commodates the aning, symbolic	e is "the fin utilitarian and be made is a body, our content, and	e art of
and the second second	Virginia Postrel American Journalist 1960 -	In her book <i>Th</i> age of aesthet growth. Drawin Postrel chronic component of	ne Substance of Style tics. Aesthetic pleasung from fields as dive cles our culture's aes a healthy, forward-lo	e, Postrel reve ure taps deep erse as fashior thetic imperat oking society.	eals that the tw human instinc n, real estate, I tive and argues	enty-first century ts and is essenti politics, design, a s persuasively th	v has become al for creativi and economi at it is a vital	e the ity and cs,
()	Jennifer McMahon Australian Philosopher and Academic 1968 -	Dr. McMahon pragmatism, p Pleasures and	supervises honors ar hilosophy of art – an I Principles and Philo	nd post-gradu d in art history sophy of Art.	ate students ir y/theory of art.	n philosophy – ae Her upper level	esthetics, neo courses are	o- Beauty:
	Alain De Botton Swiss/British Architect and Philosopher 1969 -	His books and emphasizing p book In <i>The A</i> architecture ar society.	I television programs bhilosophy's relevanc <i>rchitecture of Happin</i> nd how it is related to	discuss vario e to everyday ess, in which the well-bein	us contempora r life. Of partic de Botton disc ag and general	ary subjects and ular relevance he usses the nature contentment of t	themes, ere is his bes e of beauty in he individual	st-selling ì I and

ADDENDUM II - CONSIDERATION OF EASTERN AESTHETICS

The focus of CitiesBeautiful.org currently is on Western *a.k.a.* Occidental concepts of beauty. In the future the website might also encompass Eastern *a.k.a.* Oriental concepts. For now, here are a few brief comments on possibilities for assimilating Eastern/Oriental concepts into this document's discussions of the Beautiful Schema and Beautiful Facets¹.

Eastern/Oriental aesthetics consist largely of Chinese, Indian, and Middle Eastern aesthetics. (Until the last 200 years or so, Japanese aesthetics was not seen as a distinct philosophical pursuit as in China et al., but rather as an inseparable part of daily existence.)

In marked contrast to Western/Occidental secular aesthetics, Eastern/Oriental aesthetics are religion-centric.

Cities Beautiful

- Chinese aesthetics derive principally from Daoism and Confucianism. These traditions focus extensively on the relationship between humans and [Mother] Nature.
- Indian aesthetics, encompassing Hinduism and Buddhism, are almost entirely concerned with spiritual matters, especially as manifested in a series of "rasas".
- Middle Eastern aesthetics stem from Islam, which proscribes representational imagery. The art forms that have evolved accordingly consist largely of geometric patterns, arabesques, and abstract forms.

Arguably, though at present simplistically speaking, the three branches of Eastern/Oriental aesthetics fit into the Beautiful Schema and Beautiful Facets as shown in the following expanded version of previously presented Exhibit 6.



(1) The main sources for Addendum II are <u>http://en.wikipedia.org/wiki/Aesthetics</u>, <u>www.newworldencyclopedia.org/entry/Aesthetics</u>, <u>http://en.wikipedia.org/wiki/Japanese_aesthetics</u>, <u>http://en.wikipedia.org/wiki/Indian_aesthetics</u>, etc.

ADDENDUM III - CALCULATION OF THE CITIES BEAUTIFUL INDEX (CBI) OF EACH CITY

As explained previously, each city's overall CBI and component Beautiful Facets are scored using this process:

- For each of the Beautiful Facets, a city's three best Principle Features are identified based on various thirdparty sources and the author's personal experience. A city might have more than three Principle Features for a given Beautiful Facet, but only the top three are considered. The number of Principle Features to be included in the CBI calculation is thus 3 x 15 = 45 Principle Features.
- Each of the Principle Features is rated by the author on a scale of 1 to 3, broadly speaking as follows:
 - 3 = World Renowned
 - 2 = Well Known and/or Very Special
 - 1 = Not So Well Known But Nonetheless Special
- The scores of the three Principle Features for each Beautiful Facet are then summed.
- For each of the 15 Beautiful Facets, the number of Honorable Mentions is also counted. This number (up to a maximum of 4 Honorable Mentions) is added to the previous sum of the Principle Features.
- The combined score of the Principle Features and Honorable Mentions for each of the 15 Beautiful Facets is normalized on a scale of 1 to 100.
- The overall CBI is the average of the normalized scores for the 15 Beautiful Facets.

The table below provides the scores of each Beautiful Facet for each of the 20 cities initially evaluated at CitiesBeautiful.org. The bottom row of the table shows each city's overall Cities Beautiful Index (CBI). Note that the table highlights which cities have the highest score for each Beautiful Facet.

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	An	/ P2	/ 8 8	Bur	/ Br	/ C [®]	`/ 48'	/ * ^	150	/ Yax	`/ Yex	$\langle 4_{2}\rangle$	<u> </u>	/ ?``	⁄ &º	/ 5 ³¹	/ 🕉	/ জ	12	1 Nic	
Epiphany	76.9	53.8	53.8	69.2	69.2	46.2	92.3	69.2	84.6	69.2	92.3	92.3	69.2	46.2	76.9	46.2	53.8	69.2	53.8	69.2	
Mentoring	84.6	84.6	61.5	69.2	69.2	53.8	53.8	53.8	61.5	46.2	53.8	53.8	100.0	53.8	76.9	61.5	69.2	69.2	53.8	84.6	
Self-Fulfillment	53.8	61.5	69.2	76.9	92.3	69.2	30.8	53.8	69.2	61.5	53.8	69.2	69.2	38.5	61.5	46.2	69.2	46.2	46.2	92.3	
Elegance	53.8	84.6	61.5	46.2	46.2	30.8	46.2	53.8	76.9	46.2	53.8	84.6	76.9	46.2	46.2	69.2	53.8	30.8	38.5	53.8	
Originality	61.5	38.5	100.0	53.8	53.8	38.5	61.5	46.2	61.5	69.2	38.5	76.9	53.8	53.8	53.8	69.2	69.2	46.2	69.2	53.8	
Revelation	69.2	38.5	69.2	46.2	53.8	69.2	38.5	46.2	38.5	30.8	30.8	46.2	61.5	53.8	61.5	46.2	61.5	38.5	61.5	61.5	
Grandeur	46.2	53.8	53.8	53.8	61.5	38.5	30.8	46.2	69.2	46.2	30.8	61.5	69.2	61.5	69.2	61.5	61.5	46.2	23.1	84.6	
Selfhood	30.8	46.2	46.2	38.5	53.8	61.5	46.2	46.2	53.8	46.2	46.2	46.2	84.6	46.2	46.2	69.2	38.5	46.2	53.8	46.2	
Chronicle	69.2	92.3	30.8	46.2	69.2	61.5	84.6	61.5	92.3	30.8	53.8	46.2	53.8	53.8	76.9	69.2	69.2	76.9	76.9	69.2	
Kinship	61.5	53.8	46.2	61.5	53.8	53.8	30.8	53.8	38.5	46.2	61.5	61.5	61.5	46.2	61.5	100.0	38.5	30.8	30.8	53.8	
Nature	53.8	38.5	61.5	61.5	69.2	84.6	30.8	46.2	53.8	69.2	38.5	61.5	76.9	61.5	69.2	46.2	61.5	61.5	84.6	61.5	
Surety	38.5	46.2	23.1	30.8	38.5	53.8	38.5	38.5	76.9	69.2	46.2	46.2	38.5	53.8	53.8	69.2	53.8	46.2	30.8	76.9	
Synergy	53.8	30.8	30.8	46.2	61.5	38.5	30.8	46.2	69.2	46.2	46.2	76.9	46.2	46.2	30.8	61.5	53.8	46.2	53.8	61.5	
Dynamism	38.5	30.8	38.5	38.5	23.1	38.5	23.1	69.2	46.2	30.8	30.8	53.8	46.2	53.8	23.1	53.8	38.5	46.2	53.8	30.8	
Sensation	38.5	38.5	69.2	61.5	46.2	61.5	23.1	61.5	38.5	30.8	61.5	53.8	53.8	53.8	23.1	61.5	30.8	53.8	61.5	38.5	
OVERALL CBI	55.4	52.8	54.4	53.3	57.4	53.3	44.1	52.8	62.1	49.2	49.2	62.1	64.1	51.3	55.4	62.1	54.9	50.3	52.8	62.6	

Highest score among all 20 cities for each Beautiful Facet, e.g., Fez, Jerusalem and Kyoto had the highest score for Epiphany (92.3).

On the following pages are the detailed calculations for each of the 20 cities.

	CALC	CALCULATION OF THE CITIES BEAUTIFUL INDEX (CBI) FOR AMSTERDAM											
BEAUTIFU	THRE	E TOP	PRINCIPLE FEATURES IN	I EACH	CATEGORY	1	PRINCIPLE	HONORABLE					
L FACET	Name	Score	Name	Score	Name	Score	SCORE	SCORE	SCORE				
Epiphany	Old Church (Oude Kerk)	2	St. Nicholas (Sint- Nicolaaskerk)	2	Our Lord in the Attic (Ons' Lieve Heer op Solder)	2	6	4	76.9				
Mentoring	Rijksmuseum	3	Stedelijk Museum	3	Maritime Museum (Scheepvaartmuseum)	2	8	3	84.6				
Self- Fulfillment	Royal Palace (Koninklijk Paleis)	2	Concertgebouw	2	Music Building on the IJ (Muziekgebouw aan 't IJ) Including Bimhuis	2	6	1	53.8				
Elegance	Especially Noteworthy Canals/Streets Herengracht, Brouwersgracht, Keizersgracht, Oude Schans, etc.	3	Magna Plaza (Postkantoor)	2	Blue Bridge (Blauwbrug)	1	6	1	53.8				
Originality	Red Light District (De Wallen)	3	Skinny Bridge (Magere Brug)	2	Cinema Museum (Filmmuseum) aka Eye Film Institute	1	6	2	61.5				
Revelation	Van Gogh Museum	3	Rembrandt House (Museum Het Rembrandthuis)	2	NEMO Science Center	2	7	2	69.2				
Grandeur	Grand Squares Dam, Rembrandtplein, Leidseplein, etc.	3	Central Station (Centraal Station)	1	Maison de la Navigation	1	5	1	46.2				
Selfhood	Westergasfabriek (Cultural Center)	1	The National Monument	1	Lifestyle Museums Hash Marihuana & Hemp Museum, Sexmuseum, Erotic Museum	1	3	1	30.8				
Chronicle	Amsterdam History Museum	2	Beguine Community (Begijnhof)	2	Period Homes Museum Willet- Holthuysen, Museum Van Loon, Herengracht, n° 475, The Cromhout Houses (Cromhouthuizen)	2	6	3	69.2				
Kinship	Anne Frank House (Anne Frankhuis)	3	Jewish Historical Museum (Joods Historich Museum)	2	Neighborhoods - Nieuwe Zijde, De Plantage, Jordaan, Hollandse Schouwburg, Leidsestraat, De Pijp	2	7	1	61.5				
Nature	Vondelpark	2	Royal Zoo, Aquarium, Insectarium, etc. (Artis)	2	Botanical Garden (Hortus Botanicus)	1	5	2	53.8				
Surety	Resistence Museum (Verzetsmuseum)	2	Defensive Towers Mint Tower (Munttoren), Montelbaanstoren, Tower of Weeping Women (Schreierstoren)	1	St Anthony's Gate (St- Anthoniespoort or Waag)	1	4	1	38.5				
Synergy	Heineken Experience (Heineken-brouwerij)	2	Flower Market (Bloemenmarkt)	2	300+ Festivals Annually - e.g., Amsterdam Open Air	2	6	1	53.8				
Dynamism	Canal Tours By Boat	2	Canal Hop-On-Hop-Off Routes (e.g., offered by Rederij Lovers)	1	Public Trams and Ferrys (GVB)	1	4	1	38.5				
Sensation	Open Air Markets Albert Cuypmarkt, Nieuwmarkt, Vlooienmarkt, Antiekmarkt, Noordermarkt, etc.	2	Panoramas from Church Towers Westerkerk, Zuiderkerk, Oude Kerk	1	Tulip Museum	1	4	1	38.5				

	(JLATION OF T	HE CI	TIES BEAUTIFUL II	NDEX	(CBI) FOR	ATHENS	
BEAUTIFUL FACET	THREE	TOP PF Score	RINCIPLE FEATUR	ES IN E Score	ACH CATEGORY Name	Score	PRINCIPLE FEATURES SCORE	HONORABLE MENTIONS SCORE	NORMALIZED TOTAL SCORE
Epiphany	Byzantine and Christian Museum	2	Little Mitropolis Church	1	Kapnikarea Church	1	4	3	53.8
Mentoring	Acroplis Museum	3	National Archeological Museum	3	Benaki Museum	2	8	3	84.6
Self- Fulfillment	Odeum of Herodes Atticus	3	Panathenaic (Olympic) Stadium	2	Parliament House	1	6	2	61.5
Elegance	The Parthenon	3	The Erechtheion	3	Temple of Athena Nike	3	9	2	84.6
Originality	Tower of the Winds	2	Numismatic Museum	1	Ilias Lalaounis Jewelry Museum	1	4	1	38.5
Revelation	Museum of Popular Greek Instruments	2	Herakleidon Museum [Escher Collection]	1	Museum of Science and Technology at the University of Athens	1	4	1	38.5
Grandeur	The Acropollis	3	Mount Lycabettus (aka Lycabettos, Lykabettos or Lykavittos)	2	Temple of Hephaestus (aka Theseion/Hepasiston)	2	7	0	53.8
Selfhood	Syntagma and Kolonaki Squares	2	Foundation of the Hellenic World aka Hellenic Cosmos	1	Greek Folk Art Museum	1	4	2	46.2
Chronicle	Theater of Dionysos	3	Temple of Olympian Zeus	3	Keramikos Cemetery	2	8	4	92.3
Kinship	Neighborhoods Plaka, Anafiotika, Kolonaki , Koukaki etc.	3	Nightlife Districts Psirri and Gazi	2	Jewish Museum	1	6	1	53.8
Nature	National Garden	1	Zappeion Park	1	Plain of Mars	1	3	2	38.5
Surety	Tomb of the Unknown Soldier and the Changing of the Guard	2	War Museum	2	(Greek cruiser) Georgios Averof Museum	1	5	1	46.2
Synergy	Festivals Athens-Epidavros Festival, Athens International Dance Festival, Rockwave Festival, etc.	2	Dora Stratou Greek Dances Theatre	1	Allou Fun Park	1	4	0	30.8
Dynamism	Grand Promenade	2	Popular Bicycle Routes	1	Trams (especially to Coast)	1	4	0	30.8
Sensation	Panoramas Mt. Lycabettus, Filopappou/Philop appos Hill	2	Central Market along Athinas Street	1	Beaches - Agios Kosmas, Asteras Glyfada, Voula, Astir Beach, etc.	1	4	1	38.5
					RESULTII	VG OV	ERALL CB	I SCORE =	52.8

BEAUTIFUL FACETS	RANKING TEST	CITIES	DETAILS	ABOUT US	BLOG	SITEMAR

		CALC	ULATION OF TI	HE CIT	IES BEAUTIFU	L INDE	EX (CBI) FOR	BARCELON	Α
BEAUTIFUL FACET	THRE	E TOP P Score	RINCIPLE FEATUR	ES IN EA	ACH CATEGORY Name	Score	PRINCIPLE FEATURES SCORE	HONORABLE MENTIONS SCORE	NORMALIZED TOTAL SCORE
Epiphany	Catedral de Barcelona	2	Sant Pau del Camp	2	Monestir de Pedralbes	1	5	4	53.8
Mentoring	Museu Nacional d'Art de Catalunya	2	Univesity of Barcelona	1	Museu Marítim	2	5	4	61.5
Self- Fulfillment	Olympic Park	3	Gran Teatre del Liceu	2	Nou Camp	3	8	4	69.2
Elegance	Església de Santa Maria del Mar	2	Mies van der Rohe Pavilion	2	Hospital de Santa Creu i de Sant Pau	3	7	2	61.5
Originality	La Sagrada Família	3	Palau de la Música Catalana	3	La Pedrera (Casa Milà)	3	9	2	100.0
Revelation	CosmoCaixa (Museu de la Ciència)	2	Picasso Museum	3	Fundació Joan Miró	3	8	2	69.2
Grandeur	Plaza de Toros Monumental	2	Edifici Fòrum <i>aka</i> Museu Blau, <i>with</i> Torre Diagonal Zero Zero	1	Mirador de Colón	2	5	2	53.8
Selfhood	La Diada Nacional de Catalunya (National Day of Catalonia)	1	Passeig de Gràcia	1	Centre de Cultura Contemporània de Barcelona	1	3	2	46.2
Chronicle	Museu d'Història de la Ciutat and Palau Reial Major	2	Museu d'Història de Catalunya	1	Poble Espanyol	1	4	3	30.8
Kinship	El Raval (and less so El Born et al.)	3	Festes de la Mercè (Festival of Our Lady of Mercy)	2	Festival de Sant Joan (Saint John the Baptist) 23/24th June	1	6	1	46.2
Nature	Parc Güell	3	Parc de la Ciutadella	1	L'Aquarium de Barcelona	2	6	3	61.5
Surety	Museu Militar de Montjuïc	1	Roman Walls at Plaça Ramón Berenguer <i>et al.</i>	1	Turo de la Rovira	1	3	1	23.1
Synergy	Magic Fountain of Montjuïc	2	Parc d'Atraccions Tibidabo	1	Flemenco Performances	1	4	2	30.8
Dynamism	<i>(Walking along)</i> Las Ramblas	3	Teleferico de Montjuic	1	Transbordador Aeri del Port	1	5	0	38.5
Sensation	Mercat de La Boqueria	3	Mercat de Santa Caterina	1	Barceloneta Beach and Many Other Beaches	2	6	1	69.2
					RESU	JLTING	OVERALL (CBI SCORE =	54.4

BEAUTIFUL FACETS	RANKINGTEST	CITIES	DETAILS	ABOUT US	BLOG	SITEMAP

		CALC	ULATION OF TH		IES BEAUTIFU	L INDE	X (CBI) FOR	BUDAPEST	_
BEAUTIFUL	THREE	TOP PR	NINCIPLE FEATURE	S IN EAC	CH CATEGORY	1	PRINCIPLE FEATURES	HONORABLE MENTIONS	NORMALIZED TOTAL
	Name	Score	Name	Score	Name	Score	SCORE	SCORE	SCORE
Epiphany	Great Synagogue (Nagy Zsinagóga)	3	St. Stephen's Basilica(Szent István Bazilika)	2	Matthias Church (Mátyás templom)	2	7	2	69.2
Mentoring	Museum of Fine Arts (Szépmuvészeti Múzeum)	2	Museum of Applied Arts (Iparmuvészeti Múzeum)	2	Museum of Ethnography (Néprajzi Múzeum)	2	6	3	69.2
Self- Fulfillment	State Opera House (Magyar Allami Operahaz)	3	Parliament (Országház)	3	Heroes' Square (Hosök tere)	2	8	2	76.9
Elegance	Bridges Chain Bridge (Széchenyi Lánchíd), Liberty Bridge (Szabadság híd), Margaret Bridge (Margit híd)	2	Squares Main Square (Fo tér), Mihály Vörösmarty Square (Vörösmarty tér), Vienna Gate Square (Bécsi kapu tér), etc.	2	Gresham Palace Four Seasons Hotel	1	5	1	46.2
Originality	Fishermen's Bastion (Halászbástya)	3	Vajdahunyad Castle (Vajdahunyad vára)	1	National Theatre (Nemzeti Színház)	1	5	2	53.8
Revelation	Miksa Róth Memorial House (Róth Miksa Emlékház)	2	Imre Varga Exhibition House (Varga Imre Gyüjtemény)	2	Victor Vasarely Museum (Győző Vásárhelyi Múzeum)	1	5	1	46.2
Grandeur	Buda Castle <i>a.k.a.</i> Royal Palace (Királyi Palota)	2	Railway Stations East Station (Keleti pályaudvar) West Station (Nyugati pályaudvar)	2	Széchenyi Medicinal Bath (Széchenyi- gyógyfürdő)	2	6	1	53.8
Selfhood	Statue of Liberty (Szabadság Szobor)	2	Zsigmond Kun Folk Art Museum (Kun Zsigmond Lakásmúzeuma)	1	Váci Street (Váci utca)	1	4	1	38.5
Chronicle	Hungarian National Museum (Magyar Nemzeti Múzeum)	2	Kerepesi Cemetery (Kerepesi úti temető)	2	Aquincum (Aquincumi Múzeum)	1	5	1	46.2
Kinship	Andrássy Avenue (Andrássy út)	3	Holocaust Emlékközpont (Holocaust Memorial Center)	2	Neighborhoods Castle District (Várnegyed), Leopold Town (Lipótváros), Inner City (Belváros)	2	7	1	61.5
Nature	Margaret Island (Margit-sziget)	2	Botanical Garden (Füvészkert)	2	City Park (Városliget)	2	6	2	61.5
Surety	Citadel (Citadella)	1	Museum of Military History (Hadtörténeti Múzeum)	1	Hospital in the Rock (Bevezető Szerkesztése)	1	3	1	30.8
Synergy	Sziget Festival (Szigetfestival)	3	Great Circus (Nagy Cirkusz)	1	National Gallop (Budapest Nemzeti Vagta)	1	5	1	46.2
Dynamism	Children's Railway (Gyermek Vasút)	2	János Hill Chairlift (János-Hegy Libegö)	1	Castle Hill Funicular (Budavári Sikló)	1	4	1	38.5
Sensation	Public Baths Rudas, Király, Gellért, etc.	2	House of Terror (Terror Háza)	2	Great Market Hall (Nagycsarnok)	2	6	2	61.5
					RESL	ILTING	OVERALL C	CBI SCORE =	53.3

BEAUTIFUL FACETS	RANKING TEST	CITIES	DETAILS	ABOUT US	BLOG	SITEMAP

	C	ALCUL	ATION OF	ГНЕ СІ	TIES BEAUTIFUL	INDE>	((CBI) FOR	BUENOS AIR	ES
BEAUTIFUL	THREE	TOP PR	INCIPLE FEAT		EACH CATEGORY		PRINCIPLE	HONORABLE	NORMALIZED
FACET	Name	Score	ATION OF THE CITIES BEAUTIFUL INDEX (CBI) FOR BUENOS A Name Score Name Score PRINCIPLE FEATURES HONORABLE FEATURES Name Score Name Score PRINCIPLE FEATURES HONORABLE FEATURES HONORABLE Muscon Templo de la Congregación Israelia & Museo 2 Catedral Metropolitana 1 5 4 Museo Nacional de Bellas Artes 2 Biblioteca Nacional 1 5 4 Teatro Colón 3 Museo Evita 2 8 4 Puente de la Museo 1 Galería Güernes 1 4 2 Puente de la Museo 2 Floralis Genérica 1 5 2 Ordernos 2 Marzanas de las Luces 1 5 2 Centro de Giencias 2 Circulo Milar a.k.a. Palacio Paz 2 6 2 Centro de Giencias 2 Museo Enográfico Hastórico 1 5 2 2 Obelisco 2 Museo Enográfico Hastórico 1 6 3 3 Obelisco 2 Lardin Japonés 2	SCORE	TOTAL SCORE				
Epiphany	Basílica de Nuestra Señora del Pilar	2	Templo de la Congregación Israelita & Museo Kibrick	2	Catedral Metropolitana	1	5	4	69.2
Mentoring	Museo de Arte Latinoamericano de Buenos Aires (MALBA)	2	Museo Nacional de Bellas Artes	2	Biblioteca Nacional	1	5	4	69.2
Self- Fulfillment	Plaza de Mayo	3	Teatro Colón	3	Museo Evita	2	8	4	92.3
Elegance	Museo Nacional de Arte Decorativo	2	Puente de la Mujer	1	Galería Güemes	1	4	2	46.2
Originality	Palacio de Las Aguas Corrientes	2	La Boca/Camito	2	Floralis Genérica	1	5	2	53.8
Revelation	Museo de los Niños	2	Museo Participativo de Ciencias	2	Manzanas de las Luces	1	5	2	53.8
Grandeur	Palacio Barolo	2	Congreso	2	Círculo Militar <i>a.k.a.</i> Palacio Paz	2	6	2	61.5
Selfhood	Casa Nacional del Bicentenario	2	Centro Cultural de Borges & Galerías Pacífico (shopping)	2	Emerging Artists Braga Menendez Arte Contemporaneo, Zavaleta Lab, Hollywood in Cambodia), etc.	1	5	2	53.8
Chronicle	Cementerio de la Recoleta	3	El Museo Histórico Nacional	2	Museo Etnográfico Juan B. Ambrosetti	1	6	3	69.2
Kinship	Asociación Madres de Plaza de Mayo	3	Obelisco	2	Neighborhoods Palermo, Monserrat, San Telmo, Recoleta, La Boca, Barracas, etc.	1	6	1	53.8
Nature	Jardín Botánico Carlos Thays	2	Parques Tres de Febrero	2	Jardín Japonés	2	6	3	69.2
Surety	Islas Malvinas- Falkland Islands War Memorial	2	Museo de las Armas de la Nación	1	Buque Museo Fragata A.R.A. Presidente Sarmiento	1	4	1	38.5
Synergy	Tango Dancing (for example, at Café Tortoni)	3	Opera Pampa	2	Carnival (Corso de Buenos Aires)	1	6	2	61.5
Dynamism	Tranvia (Cable Cars)	1	A Line Subte	1	Guided Bicycle Tours (e.g., viator.com, urbanbiking.com)	1	3	0	23.1
Sensation	San Telmo Antiques Market (Plaza Dorrego)	2	Feria de Mataderos	2	Recoleta Fair (Feria de Plaza Francia)	1	5	1	46.2
					RESU	JLTING	OVERALL C	CBI SCORE =	57.4

		CALC	CULATION OF	THE CI	TIES BEAUTIFU	L INDE	X (CBI) FOR		١
BEAUTIFUL	THRE	EE TOP I	PRINCIPLE FEATU	RES IN E I	ACH CATEGORY	1	PRINCIPLE FEATURES	HONORABLE MENTIONS	NORMALIZED
	Name	Score	Name	Score	Name	S BEAUTIFUL INDEX (CBI) FOR CAPE TOH CATEGORYPRINCIPLE FEATURES SCOREHONORAB MENTION SCORETuynhuis172Tafelberg Dutch Reformed Church132Tafelberg Dutch Reformed Church132Destert's (Wind) Mill152ma Stern Museum261Mutual Heights Building150Gold of Africa Museum150South African Maritime Centre150Kirstenbosch 	SCORE	TOTAL SCORE	
Epiphany	Robben Island	3	Rhodes Memorial	3	Tuynhuis	1	7	2	46.2
Mentoring	Centre of the Book	1	Old YMCA Building	1	Tafelberg Dutch Reformed Church	1	3	2	53.8
Self- Fulfillment	Dock Clock Tower and Tide Gauge House	2	Blue Lodge (and Other Victorians on Long Street)	2	Mostert's (Wind) Mill	1	5	2	69.2
Elegance	Heart of Cape Town Museum <i>aka</i> Transplant Museum	2	Michaelis Collection in Old Town House	2	Irma Stern Museum	2	6	1	30.8
Originality	City Hall	2	Parliament	2	Mutual Heights Building	1	5	0	38.5
Revelation	Grand Parade	2	Guga S'Thebe Arts & Cultural Centre	2	Gold of Africa Museum	1	5	3	69.2
Grandeur	District Six Museum	2	Slave Lodge	2	South African Maritime Centre	1	5	0	38.5
Selfhood	South African Jewish Museum	2	Long Street (day and night)	2	Neighborhoods Castle Quarter, Adderley Street, Kalk Bay, Bo-Kaap, Simon's Town, etc.	2	6	3	61.5
Chronicle	Table Mountain	3	Boulders	3	Kirstenbosch Botanical Gardens	1	7	3	61.5
Kinship	Castle of Good Hope	2	Chavonne's Cannon Battery Museum	2	Lighthouses Slangkoppunt, Green Point, Robben island	1	5	1	53.8
Nature	Victoria and Alfred Waterfront	2	St. George's (Pedestrian) Mall	1	Outdoor Performances AGFA Amphitheatre, Kirstenbosch Summer Sunset Concerts	1	4	4	84.6
Surety	Table Mountain Cable Car	2	Chapman's Peak (Scenic) Drive	1	<i>Hiking</i> Tafelberg Road, Hoerikwaggo Trail	1	4	2	53.8
Synergy	<i>Beaches</i> Noordhoek, Clifton, Camps Bay, Llandudno Beach, etc.	3	<i>Wineries</i> Klein Constantia, Buitenverwachting, Groot Constantia, etc.	3	Outdoor Markets Greenmarket Square, Church Street Arcade, etc.	1	7	1	38.5
Dynamism	Robben Island	3	Rhodes Memorial	3	Tuynhuis	1	7	1	38.5
Sensation	Centre of the Book	1	Old YMCA Building	1	Tafelberg Dutch Reformed Church	1	3	1	61.5
					RESU	JLTING	OVERALL (CBI SCORE =	53.3

REALITIELII EACETS	DANKING TEST	CITIES	DETAILS	ABOUTUS	BLOC	SITEMA
BLAUTH ULLACETS	KAINKINGTEST	CHILD	DLIAILS	ABOULUS	BLOG	JITLIMA

		CA		OF THE	CITIES BEAUT	IFUL II	NDEX (CBI) F	OR FEZ	
BEAUTIFUL FACET	THREE	TOP PRI	NCIPLE FEATUR	ES IN EA	ACH CATEGORY Name	Score	PRINCIPLE FEATURES SCORE	HONORABLE MENTIONS SCORE	NORMALIZED TOTAL SCORE
Epiphany	Religious Festivals Moussem of Moulay Idriss, World Festival of Sacred Music, Fez Festival of Sufi Culture	3	Kairaouine Mosque	3	Zaouia of Moulay Idriss II	2	8	4	92.3
Mentoring	University of al- Karaouine (al- Qarawiyyin)	3	Dar Batha Museum	2	<i>Many</i> Medersas Mesbahiya, Attarine, Seffarine, Cherratine, etc.	2	7	0	53.8
Self- Fulfillment	Zaouia Moulay Idriss and the tomb of Moulay Idriss	2	Dar el-Makhzen (Royal Palace)	1	Other Palaces Palais des Idrissides, El Mokri Palace, Glaoui Palace	1	4	0	30.8
Elegance	Bou Inania Medersa	3	Attarine Medersa	2	Medersa es Sahrija	1	6	0	46.2
Originality	Chouwara Tanneries aka Terrasse des Tanneurs	3	Seffarine Square (Coppersmiths)	2	Water Clock House (Dar al-Magana)	2	7	1	61.5
Revelation	Najjarine Museum of Wooden Arts and Crafts	2	Belghazi Museum	2	Art Naji (see the entire ceramics production process)	1	5	0	38.5
Grandeur	Bab Boujloud	2	Heri el Souani (Royal Granaries)	1	Hotel Sofitel Fès Palais Jamaï	1	4	0	30.8
Selfhood	Centre Artisanale	2	Ensemble Artisanal	1	Slam&Klam Festival	1	4	2	46.2
Chronicle	Medinas including Fes el Bali (oldest)and Fes el Djedid (13th century)	3	Andalusian Mosque	2	Seffarine Medersa - the oldest of the Merinid medersas in Fez	2	7	4	84.6
Kinship	Neighborhoods Mellah (previously Jewish), Moulay Abdellah Quarter	2	Festival of Amazigh Culture	1	Kassr Annoujoum Ducci Foundation	1	4	0	30.8
Nature	Jnan Sbil (Bou Jeloud Gardens)	2	Haras Régional (Horse Farm)	1	Foret d'ain Chkef	1	4	0	30.8
Surety	Musee des Armes	2	North Borj [North Fort]	1	South Borj [South Fort]	1	4	1	38.5
Synergy	Spice, Cosmetic, Perfume, Medicine Souks Henna, Attarine, Ech Chabine	2	Food Souks (southern side of the medina square) and B'sara Stalls (throughout the medina)	1	Bou Jeloud Square has a funfair at holiday times, concerts and a few story tellers	1	4	0	30.8
Dynamism	Belly Dancing Performances	1	Walking Tours - Day, Night, Culinary	1	Camel Treks (Beginning in Fez and Going Outside the City)	1	3	0	23.1
Sensation	Panoramas Marinides Tombs Overlook, South Borj Overlook, North Borj Overlook	1	Dyers' Souk (Souk es Sebbaghin in Arabic, Rue des Tanneries in French)	1	Culinary Art Festival	1	3	0	23.1
					RESU	LTING	OVERALL C	BI SCORE =	44.1

	CA	LCUL	ATION OF T	HE CIT	IES BEAUTIFU	JL INDI	EX (CBI) FOR	HONG KON	G
BEAUTIFUL	THREE TO	P PRINC	IPLE FEATUR	ES IN EA	CH CATEGORY		PRINCIPLE	HONORABLE	NORMALIZED
FACET	Name	Score	Name	Score	Name	Score	SCORE	SCORE	TOTAL SCORE
Epiphany	Wong Tai Sin Temple	2	Man Mo Temple	2	Chi Lin Nunnery	2	6	3	69.2
Mentoring	Hong Kong Museum of Art	2	University Museum and Art Gallery at the University of Hong Kong	2	University of Hong Kong	2	6	1	53.8
Self- Fulfillment	Dr. Sun Yat Sen Museum	2	Hong Kong Cultural Centre	1	Legislative Council Building	1	4	3	53.8
Elegance	Peninsula Hotel	3	Tai Fu Tai Mansion	2	(Former) French Mission Building	1	6	1	53.8
Originality	Wisdom Path near the Tian Tan Buddha	2	Clock Tower	1	Lippo Centre	1	4	2	46.2
Revelation	Hong Kong Science Museum	2	Museum of Medical Sciences	2	Space Museum	1	5	1	46.2
Grandeur	Bank of China Tower	2	HSBC Building	1	Two International Finance Centre	1	4	2	46.2
Selfhood	Shopping: Nathan Road, Hollywood Road, Cat Street, etc.	3	Hong Kong Arts Centre	1	Hong Kong Planning and Infrastructure Exhibition Gallery	1	5	1	46.2
Chronicle	Hong Kong Museum of History	2	Hong Kong Heritage Museum	2	Lung Yeuk Tau Heritage and Ping Shan Heritage Trails	2	6	2	61.5
Kinship	Aberdeen Floating Village	3	Neighborhoo ds: Mongkok, SoHo, Stanley, etc.	2	Lan Kwai Fong <i>[Nightlife]</i>	1	6	1	53.8
Nature	Hong Kong Park	2	Kowloon Park	1	Victoria Park	1	4	2	46.2
Surety	Hong Kong Museum of Coastal Defence	1	Kowloon Walled City Park	1	(Former) Marine Police Headquarters	1	3	2	38.5
Synergy	Festivals: Chinese New Year including Lunar New Year Fireworks, Cheung Chau Bun Festival, Dragon Boat Festival	2	Ocean Park	2	Sha Tin Racecourse	1	5	1	46.2
Dynamism	Star Ferry	3	Historic Tramway	2	Tsim Sha Tsui East Waterfront Promenade	1	6	3	69.2
Sensation	Victoria Peak [Views]	3	Symphony of Lights	2	Markets: Temple Street Night Market, Ladies' Market, Flower Market and Yuen Po Street Bird Garden, etc.	2	7	1	61.5
					RESU	JLTING	OVERALL (CBI SCORE =	52.8

	(CALCU	LATION OF THE	CITIES	BEAUTIFUL IN	DEX (O	BI) FOR <mark>IS</mark>	STANBUL	
BEAUTIFUL FACET	THRE	E TOP P Score	RINCIPLE FEATURES	IN EAC	H CATEGORY Name	Score	PRINCIPLE FEATURES SCORE	HONORABLE MENTIONS SCORE	NORMALIZED TOTAL SCORE
Epiphany	Eyüp Sultan Mosque (Eyüp Sultan Camii)	3	Ecumenical Patriarchate of Constantinople (Rum Ortodoks Patrikhanesi)	3	St. Savior in Chora (Kariye Müzesi)	2	8	3	84.6
Mentoring	lstanbul Museum of Modern Art (İstanbul Modern Sanat Müzesi)	2	Sakıp Sabancı Museum (Sakıp Sabancı Müzesi)	2	lstanbul University (İstanbul Üniversitesi)	2	6	2	61.5
Self- Fulfillment	Topaki Palace (Topkapı Sarayı)	3	Süleymaniye Mosque and Complex (Süleymaniye Camii ve Külliyesi)	3	Republic Monument (Cumhuriyet Anıtı)	1	7	2	69.2
Elegance	Blue Mosque (Sultan Ahmet Camii)	3	Rüstem Pasha Mosque (Rüstem Paşa Camii)	2	New Mosque (Yeni Cami)	2	7	3	76.9
Originality	Yerebatan Cistern (Yerebatan Sarnici)	3	Galata Tower (Galata Kulesi)	2	Leander's Tower aka Maiden's Tower (Kız Kulesi)	1	6	2	61.5
Revelation	Museum of the History of Islamic Science and Technology in Islam (İstanbul İslam Bilim ve Teknoloji Tarihi Müzesi)	1	Rahmi M. Koç Museum (Rahmi M. Koç Müzesi)	1	Naval Museum (İstanbul Deniz)	1	3	2	38.5
Grandeur	Hagia Sofia (Ayasofya)	3	Dolmabahçe Palace (Dolmabahçe Sarayi)	3	Crowned Prince Mosque Complex (Sehzade Külliyesi)	1	7	2	69.2
Selfhood	Museum of Turkish and Islamic Arts (Türk ve İslam Eserleri Müzesi)	2	Galata Mevlevihanesi [Whirlng Dervis Lodge]	2	Istanbul Handicrafts Center (Kabasakal Medresi)	1	5	2	53.8
Chronicle	Istanbul Archeology Museums (İstanbul Arkeoloji Müzeleri)	3	Hippodrome (Sultanahmet Meydanı, At Meydanı)	3	Column of Constantine (Çemberlitaş Sütunu)	2	8	4	92.3
Kinship	Neighborhoods İstiklal Caddesi aka Beyoglu, Ortaköy, Kadıköy, Üsküdar, etc.	2	Flower Passage (Çlçek Pasaji)	1	Jewish Museum of Turkey	1	4	1	38.5
Nature	Yildiz Palace and Park (Yildiz Sarayi ve Parki)	2	Emirgan Park (Emirgan Korusu)	1	Gülhane Park (Gülhane Parkı)	1	4	3	53.8
Surety	Theodosian Walls	3	Military Museum (Askerî Müze)	2	Seven Towers Fortress (Yedikule Hisarı)	2	7	3	76.9
Synergy	Grand Bazaar	3	Spice Bazaar aka Egyptian Bazaar (Mısır Çarşısı)	3	Fish Market (Balikpazari)	1	7	2	69.2
Dynamism	Bosphorus Boat Ride (e.g., by Ferry)	3	Istiklal Caddesi (Historic) Tram	1	Eyüp-Piyerloti Aerial Cable Car (Eyüp-Piyerloti Teleferiği)	1	5	1	46.2
Sensation	International Istanbul Tulip Festival (Istanbul Lale Festivali)	2	Waterfront Promenades (e.g., from Kabatas to Ortaköy)	1	Restaurants with Panoramic Views - - 360 Istanbul, Mikla, Topaz, etc.	1	4	1	38.5
					RESULTII	NG OV	ERALL CB	SCORE =	62.1

BEAUTIFUL FACETS	RANKING TEST	CITIES	DETAILS	ABOUT US	BLOG	SITEMA

		CALC	CULATION OF T		IES BEAUTIFU	JL IND	EX (CBI) FOR	R JAIPUR	
BEAUTIFUL FACET	THREE	TOP PR Score	NCIPLE FEATURES	S IN EAC	H CATEGORY Name	Score	PRINCIPLE FEATURES SCORE	HONORABLE MENTIONS SCORE	NORMALIZED TOTAL SCORE
Epiphany	Birla Mandir Temple	2	Govind Devji Temple	2	Moti Doongri Ganesh Temple	1	5	4	69.2
Mentoring	Government Central (Albert Hall) Museum	2	SRC Museum of Indology	1	Shree Sanjay Sharma Museum	1	4	2	46.2
Self- Fulfillment	Chandra Mahal (Moon Palace)	2	Amber Palace (within Amber Fort)	2	Sisodia Rani Palace	1	5	3	61.5
Elegance	Hawa Mahal (Palace of the Winds)	3	Cenotaphs Royal Gaitor, Cenotaphs of the Maharanis	2	Akshardham Temple and Gardens	1	6	0	46.2
Originality	Jal Mahal (Water Palace)	3	10 Gates Tripolia Gate and the other gates in the City Palace and Jaipur Old Wall	2	Sheesh Mahal (Mirror Palace, in Amber Fort)	1	6	3	69.2
Revelation	Jantar Mantar	2	Anokhi Museum of Hand Printing	1	Alice Garg National Seashells Museum	1	4	0	30.8
Grandeur	City Palace Complex	3	Rambagh Palace	2	Ishwari Minar Swarga Sal (Minaret/Tower)	1	6	0	46.2
Selfhood	Jaipur Heritage International Festival	3	Surajkund International Crafts Mela	1	Jawahar Kala Kendra (multi arts centre)	1	5	1	46.2
Chronicle	City Palace Museums including Maharaja Sawai Man Singh Ji Museum	2	Amer Jaipur Archaeological Museum	1	Philatelic Bureau and Museum	1	4	0	30.8
Kinship	Jaipur Literature Festival	3	Neighborhoods Old City, Bani Park, Malviya Nagar,Vaishali Nagar, etc.	1	Jaipur Foundation Day Celebration	1	5	1	46.2
Nature	Galta (Monkey) Temples	2	Elephant Parks Elefantastic, Elefun, Elefantasy, Elemaison, etc.	2	Sisodia Rani Palace Garden	1	5	4	69.2
Surety	Amber Fort	3	Jaigarh Fort	2	Nahargarh Fort	2	7	2	69.2
Synergy	Gangaur Festival	2	Teej Festival	1	Elephant Festival	1	4	2	46.2
Dynamism	Elephant Rides (e.g., Viator.com up to Amber Fort) and Camel Rides	2	Kite Flying Festival on Makar Sankranti	1	Bicycle Tours	1	4	0	30.8
Sensation	Jaipur's Bazaars	2	Panoramas from Hawa Mahal, Nahargarh Fort, Ishwari Minar Swarga Sal, etc.	1	Food Tours	1	4	0	30.8
					RESUL	TING O	VERALL CB	SCORE =	49.2

BEAUTIFUL FACETS	RANKING TEST	CITIES	DETAILS	ABOUT US	BLOG	SITEMA

	C	ALCUL	ATION OF TH	IE CITI	ES BEAUTIFU	L INDE	X (CBI) FOR	JERUSALEM	
BEAUTIFUL FACET	THREE T	OP PRIN Score	CIPLE FEATURE	S IN EAG	CH CATEGORY Name	Score	PRINCIPLE FEATURES SCORE	HONORABLE MENTIONS SCORE	NORMALIZED TOTAL SCORE
Epiphany	Western Wall aka Wailing Wall	3	Church of the Holy Sepulchre	3	Temple Mount	3	9	3	92.3
Mentoring	Israel Museum & Shrine of the Book	3	The Bible Lands Museum	2	Hebrew University - Givat Ram Campu	1	6	1	53.8
Self- Fulfillment	Parliament (Knesset)	3	Mt. Herzl National Memorial Park	2	The Jerusalem Theatre	1	6	1	53.8
Elegance	Dome of the Rock	3	International YMCA	2	Salameh Villa <i>aka</i> Belgium Consulate	1	6	1	53.8
Originality	Church of Mary Magdalene	2	Montefiore's Windmill	1	Zoharei Chama Synagogue aka Sundial Building	1	4	1	38.5
Revelation	Bloomfield Science Museum	1	Chagall Windows at Hadassah Medical Center	1	Museum on the Seam	1	3	1	30.8
Grandeur	Rockefeller Museum	1	Supreme Court Building	1	King David Hotel	1	3	1	30.8
Selfhood	L. A. Mayer Memorial Museum of Islamic Art	2	Sir Isaac and Lady Edith Wolfson Museum	1	Jerusalem Artists' House and Old Bezalel Academy of Arts and Design	1	4	2	46.2
Chronicle	Jerusalem Archaeological Park and Davidson Center	3	Tower of David Museum	1	Beit Ticho (Ticho House)	1	5	2	53.8
Kinship	Yad VaShem Memorial and Holocaust Museum	3	Old City Quarters Christian , Jewish, Armenian, Muslim	3	Heichal Shlomo Jewish Heritage Museum	1	7	1	61.5
Nature	Tisch Family Zoological Gardens <i>aka</i> Jerusalem Biblical Zoo	1	Jerusalem Botanical Gardens	1	Sacher Park	1	3	2	38.5
Surety	Jerusalem City Wall and the Gates	3	Broad Wall	1	Ammunition Hill Memorial and Museum	1	5	1	46.2
Synergy	The Israel Festival (many venues citywide)	2	Chutzot Hayotzer Festival	2	Tower of David Museum's Night Spectacular	1	5	1	46.2
Dynamism	Promenades Haas Promenade, Ramparts Walk	2	Egged 99 City Bus Tour (25 stops citywide)	1	Jerusalem Light Rail (diagonal NE to SW trans- city route)	1	4	0	30.8
Sensation	Panoramas Tower of David, Mount. of Olives	3	Machaneh Yehuda Market	2	Old City Market	1	6	2	61.5
					RESU	JLTING	OVERALL	CBI SCORE =	49.2

BEAUTIFUL FACETS RANKING TEST CITIES DETAILS ABOUT US BLOG SITEM							
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		CALC	ULATION OF	THE C	ITIES BEAUT	IFUL I	NDEX (CBI) F	OR KYOTO	
BEAUTIFUL FACET	THREE TO Name	P PRINC	CIPLE FEATURES	S IN EAC	H CATEGORY Name	Score	PRINCIPLE FEATURES SCORE	HONORABLE MENTIONS SCORE	NORMALIZED TOTAL SCORE
Epiphany	Myoshin-ji Temple	3	Shimogamo- jinja Shrine	3	Chion-in Temple	2	8	4	92.3
Mentoring	Kyoto National Museum (Kokuritsu Hakubutsukan)	2	Kyoto Museum of Traditional Crafts (Fureaikan)	2	National Museum of Modern Art (Kindai Bijutsukan)	1	5	2	53.8
Self- Fulfillment	Kyoto Imperial Palace (Kyoto Gosho)	3	Katsura Imperial Villa (Katsura Rikyu)	2	Shugakuin Imperial Villa (Shugaku-in Rikyū)	2	7	2	69.2
Elegance	Temple of the Golden Pavilion (Kinkaku-ji)	3	Temple of the Silver Pavilion (Ginkakuji)	3	Kodai-ji Temple	2	8	3	84.6
Originality	Torii of the Fushimi-Inari Taisha Shrine	3	Rock Gardens of Ryoanji Temple	3	Tofuku-ji Gateway/Arch	2	8	2	76.9
Revelation	Chishaku-in Temple [paintings by Tohaku Hasegawa and son Kyuzo]	2	Insho Domoto Art Museum (Domoto Insho Bijutsukan)	1	Kawai Kanjiro Memorial House (Kawai Kanjiro Kinenkan)	1	4	2	46.2
Grandeur	Kiyomizu Temple (Kiyomizu-dera)	3	Sanjusangen- do Hall	2	Heian-jingū Shrine	2	7	1	61.5
Selfhood	Nishijin-ori Textile Center (Nishijin-Ori Kaiken)	2	Kyoto Handicraft Center	2	Kyoto Ceramics Center	1	5	1	46.2
Chronicle	Museum of Kyoto (Kyoto Bunka Hakubutsukan)	2	"Festival of the Ages" (Jidai Matsuri)	1	Kyoto Costume Museum (Fuzoku Hakubutsukan)	1	4	2	46.2
Kinship	Gion Neighborhood (Geisha District)	3	Higashiyama- ku Neighborhood	2	Sannen-zaka and Ninen-zaka Streets	2	7	1	61.5
Nature	Sogenchi Garden of Tenryu-ji Temple	2	Koinzan Saiho- ji Temple [a.k.a. the Moss Temple]	2	Bamboo Forest at Honen-in Temple	2	6	2	61.5
Surety	Nijō Castle (Nijō- jō)	2	East Temple (To-ji)	2	Nijo Jin-ya [350 Year Old "Safe House"]	1	5	1	46.2
Synergy	Gion Festival (Gion Matsuri)	3	Hollyhock Leaf Crest Festival (Kamigamo Jinja Matsuri)	2	Kyōto Station (Kyōto-eki)	1	6	4	76.9
Dynamism	Path of Philosophy (Tetsugaku-no- michi)	3	Boat Ride on the Hozugawa River	2	Eizan Cable Car on Mount Hiei	1	6	1	53.8
Sensation	Open Air Markets: Tenjin-sanat Kitano Shrine, Kobo-san at Toji Temple, Tezukuri- ichi at Chionji Temple, etc.	2	Gekkeikan Ōkura Museum (Gekkeikan Okura Kinenkan) [Sake Brewing]	2	Kyoto Tower [Scenic Views]	1	5	2	53.8
					RESU	JLTING	OVERALL (CBI SCORE =	62.1

		C/		OF TH	E CITIES BEAUTI	FUL IN	DEX (CBI) F	OR PARIS	
BEAUTIFUL FACET	THREE				EACH CATEGORY	Score	PRINCIPLE FEATURES	HONORABLE MENTIONS	NORMALIZED TOTAL SCORE
Epiphany	Cathédrale de	3	Basilique du	3	La Grande	2	8	1	69.2
Mentoring	Notre-Dame	3	Sacré-Coeur Pompidou	3	Mosquée de Paris	3	9		100.0
mentoring	Louvie	5	Centre Hôtel des	5		5	3	-	100.0
Self- Fulfillment	L'Arc de Triomphe	3	Invalides and Napoleon's Tomb	3	Opéra de la Bastille	1	7	2	69.2
Elegance	Opéra Garnier	3	Sainte- Chapelle	3	Place des Vosges	2	8	2	76.9
Originality	Catacombs	3	Grande Pyramide	2	Moulin de la Galette (windmill)	1	6	1	53.8
Revelation	Cité des Sciences et de l'Industrie	2	Bibliothèque Nationale de France	2	Musée Rodin	2	6	2	61.5
Grandeur	Eiffel Tower	3	Panthéon	3	Place de la Concorde	2	8	1	69.2
Selfhood	Bastille Day Parade/Festival	3	Champs- Elysées	3	Institut de France	1	7	4	84.6
Chronicle	Père Lachaise Cemetery & Cimetière du Montparnasse	3	Basilique de St-Denis	1	Musée Carnavalet- Histoire de Paris	1	5	2	53.8
Kinship	Districts Ile de la Cite and Ile St. Louis, Marais, Montmartre, Latin Quarter, etc.	3	Musée d'Art et Histoire du Judaisme	3	Institut du Monde Arabe	1	7	1	61.5
Nature	Jardin des Tuileries	3	Jardin du Luxembourg	2	Bois de Boulogne	1	6	4	76.9
Surety	La Grande Arche de la Défense	2	Conciergerie	1	Château de Vincennes	1	4	1	38.5
Synergy	<i>Cabarets:</i> Moulin Rouge, Au Lapin Agile, Le Lido, Crazy Horse	3	The Festival d'Automne à Paris	1	Bistros (e.g., tightly packed for lunch)	1	5	1	46.2
Dynamism	Seine River Cruise (especially at night)	3	Canal Cruises	1	Bicycle Tours (e.g., see viator.com, bluebiketours.com)	1	5	1	46.2
Sensation	Outdoor Markets Rue Montorgueil, Rue Mouffetard, etc.	2	Panoramas From Top of Eiffel Tower, Notre Dame, Arc de Triomphe, Tour Montparnasse, etc.	2	<i>Gourmet Stores</i> Fauchon, Hediard, La Grande Epicerie au Bon Marché, La Chocolaterie Jacques Geni, etc.	2	6	1	53.8
					RESU	ILTING	OVERALL C	BI SCORE =	64.1

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BLAOTH OLTAGETS	KANKINGTEST	GITTED	DETAILS	About 05	DLOO	JILMA

	CA	LCUL	ATION OF THE CITIE	S BEA		EX (CB	I) FOR <mark>RIO</mark>	DE JANEIR	0
BEAUTIFUL FACET	THRE		PRINCIPLE FEATURES IN	EACH C	ATEGORY	Secre	PRINCIPLE FEATURES	HONORABLE MENTIONS	NORMALIZED TOTAL
	Name	Scole	Name	Scole	Name	Score	SCORE	SCORE	SCORE
Epiphany	Nossa Senhora de Candelária	2	Igreja da Ordem Terceira de São Francisco da Penitencia and Convento do Santo Antônio	2	Nossa Senhor de Glória do Outeiro	1	5	1	46.2
Mentoring	Museu Nacional	2	Biblioteca Nacional	2	Espaço Cultural da Marinha	1	5	2	53.8
Self- Fulfillment	Paço Imperial	2	Palácio Tiradentes	1	Maracanã Stadium	1	4	1	38.5
Elegance	Theatro Municipal	2	Palácio Itamaraty	2	Ilha Fiscal	1	5	1	46.2
Originality	Museu de Arte Contemporâne a Niterói	3	Escadaria Selarón	2	Catedral Metropolitana	1	6	1	53.8
Revelation	Museu Chácara do Céu	2	Sítio Roberto Burle Marx	2	Museu de Arte Moderna (MAM)	1	5	2	53.8
Grandeur	Corcovado and Cristo Redentor	3	Palácio Das Laranjeiras in Guinle Park	2	Praça XV de Novembro	2	7	1	61.5
Selfhood	Museu Internacional de Arte Naif do Brasil	2	Centro Cultural do Banco do Brasil	1	Praça Floriano aka Cinelândia,	1	4	2	46.2
Chronicle	Museu do Indio	2	Museu Histórico Nacional	2	Museu Histórico da Cidade	1	5	2	53.8
Kinship	Sambodromo	3	Neighborhoods: Lapa, Santa Teresa, Ipanema/Leblon, LGlória/Catete/Flameng o	2	Travessa do Comércio	1	6	0	46.2
Nature	Tijuca National Park	2	Quinta da Boa Vista	2	Jardim Botânico	1	5	3	61.5
Surety	Forte de Copacabana	2	Fortaleza de Santa Cruz	2	Monumento aos Pracinhas	1	5	2	53.8
Synergy	Carnival	3	Feira de Sao Cristovao <i>aka</i> Feira Nordestina	2	Babilônia Feira Hype	1	6	0	46.2
Dynamism	Sugarloaf Mountain (Pao de Acucar) Cable Car	3	Hang Gliding (launching from Pedra Bonita, etc.)	2	Bonde tram especially across the Arcos da Lapa	1	6	1	53.8
Sensation	<i>Beaches:</i> Copacabana, Ipanema, etc.	3	Panoramas: Sugarloaf Mountain (Pao de Acucar), etc.	3	Flea Markets: Feira Hippie de Ipanema, Avenida Atlântica, Feira do Rio Antigo etc.	1	7	0	53.8
					RESULT	ING O	VERALL CE	SCORE =	51.3

BEAUTIFUL FACETS	RANKING TEST	CITIES	DETAILS	ABOUT US	BLOG	SITEMA

		CAL		FTHE	CITIES BEAU	JTIFUL	INDEX (CBI)	FOR ROME	
BEAUTIFUL FACET	THREE T	OP PRIN Score	CIPLE FEATURE	S IN EAG	CH CATEGORY Name	Score	PRINCIPLE FEATURES SCORE	HONORABLE MENTIONS SCORE	NORMALIZED TOTAL SCORE
Epiphany	St. Peters Basilica	3	San Giovanni in Laterano	3	Santa Maria Maggiore	2	8	2	76.9
Mentoring	Vatican Museums	3	Capitoline Museums	2	National Museum of Rome	1	6	4	76.9
Self- Fulfillment	Palazzo del Quirinale	2	Piazza Colonna	2	Arch of Constantine	2	6	2	61.5
Elegance	St. Peter's Square	3	Chiesa di Sant'Ivo alla Sapienza	1	Chiesa di Sant'Andrea al Quirinale	1	5	1	46.2
Originality	Trevi Fountain	3	Baths of Caracalla	2	Capuchin Cemetery	1	6	1	53.8
Revelation	Sistine Chapel	3	Galleria Borghese	3	Museo Nazionale delle Arti del XXI Secolo (MAXXI)	1	7	1	61.5
Grandeur	Colosseum	3	Pantheon	3	Piazza Navona	2	8	1	69.2
Selfhood	Via Veneto	3	Palazzo delle Esposizioni	1	Via Giulia	1	5	1	46.2
Chronicle	Roman Forum/Palatine Hill/Circus Maximus	3	Campidoglio (Capitoline Hill)	3	Basilica di San Clemente	2	8	2	76.9
Kinship	Piazza di Spagna and the Spanish Steps	3	Trastevere	2	Testaccio	1	6	2	61.5
Nature	Villa Borghese gardens	3	Villa Doria Pamphili	2	Villa Ada	1	6	3	69.2
Surety	Castel Sant'Angelo	3	Swiss Guards at the Vatican	3	Aurelian Wall	1	7	0	53.8
Synergy	Natale di Roma	1	Villa Celimontana Festivals	1	RomaEuropa	1	3	1	30.8
Dynamism	Tiber River Cruises	1	Walking Tours	1	Bicycle Tours	1	3	0	23.1
Sensation	<i>Open Air</i> <i>Markets:</i> Campo de' Fiori, etc.	1	Panoramas (views from the top of): Cupola of St. Peter's, etc.	1	Innumerable Restaurants	1	3	0	23.1
					RESL	ILTING	OVERALL C	BI SCORE =	55.4

BEAUTIFUL FACETS	RANKING TEST	CITIES	DETAILS	ABOUT US	BLOG	SITEMA

	CA	LCULA	TION OF THE (CITIES	BEAUTIFUL		X (CBI) FOR	SAN FRANCI	SCO
BEAUTIFUL FACET	THREE	TOP PRI	NCIPLE FEATURES	S IN EAC	H CATEGORY	Score	PRINCIPLE FEATURES SCORE	HONORABLE MENTIONS SCORE	NORMALIZED TOTAL SCORE
Epiphany	Mission Dolores	2	Grace Cathedral	1	Temple Emanu-El	1	4	2	46.2
Mentoring	DeYoung Museum	2	Asian Art Museum	2	Museum of Modern Art (MOMA)	2	6	2	61.5
Self- Fulfillment	San Francisco Opera, Ballet, and Symphony	2	American Conservatory Theater (ACT)	1	City Lights Book Store	1	4	2	46.2
Elegance	Civic Center, Especially City Hall	2	Conservatory of Flowers	2	Garden Court in the Sheraton Palace Hotel	2	6	3	69.2
Originality	Lombard Street	3	Transamerica Building	3	New St. Mary's Cathedral	1	7	2	69.2
Revelation	Academy of Sciences	2	Exploratorium	2	Randall Museum	1	5	1	46.2
Grandeur	Golden Gate Bridge	3	Bay Bridge	2	Palace of Fine Arts	2	7	1	61.5
Selfhood	The Castro (Gay "Coming Out" Mecca)	3	Shopping Union Square and Vicinity	3	Angel Island (Ellis Island West)	1	7	2	69.2
Chronicle	Presidio Including Civil War Era Housing, Cemetery	2	Maritime National Historical Park	2	Haas- Lilienthal House	1	5	4	69.2
Kinship	Neighborhoods – Haight- Ashbury, Castro, Mission, North Beach, Telegraph Hill	3	Chinese New Years Parade	3	LGBT Pride Parade	3	9	4	100.0
Nature	Golden Gate Park - Japanese Tea Garden, Stowe Lake, Buffalo Herd, Etc.	2	Golden Gate National Recreation Area (GGNRA)	2	SF Zoo	1	5	1	46.2
Surety	Alcatraz	3	Fleet Week and Blue Angels	2	Fort Point	2	7	2	69.2
Synergy	Chinatown	3	Red and White Fleet tour of the Bay	2	Pier 39 Sea Lions	2	7	1	61.5
Dynamism	Cable Cars	3	Historic Trolleys on Market Street and the Embarcadero	2	Hang Gliding at Fort Funston	1	6	1	53.8
Sensation	Fisherman's Wharf	3	Panoramas Top of the Mark, Twin Peaks, Golden Gate Bridge Toll Plaza, etc.	3	Ocean Beach	1	7	1	61.5
					RESU	JLTING	OVERALL C	BI SCORE =	62.1

BEAUTIFUL FACETS	RANKING TEST	CITIES	DETAILS	ABOUT US	BLOG	SITEMA

	CALCULATION OF THE CITIES BEAUTIFUL INDEX (CBI) FOR ST. PETERSBURG									
BEAUTIFUL FACET	THREE TO	P PRINO	CIPLE FEATURES	IN EAC Score	H CATEGORY Name	Score	PRINCIPLE FEATURES SCORE	HONORABLE MENTIONS SCORE	NORMALIZED TOTAL SCORE	
Epiphany	St. Isaac's Cathedral (Isaakevsky Sobor)	2	Grand Choral Synagogue (Sinagoga)	2	St. Nicholas Cathedral (Nikolsky Sobor) -	1	5	2	53.8	
Mentoring	State Hermitage Museum (Gosudarstvenny Ermitazh)	3	State Russian Museum	2	Russian National Library (Rossiiskaya Natsionalnaya Biblioteka)	1	6	3	69.2	
Self- Fulfillment	<i>Tsar Palaces</i> Winter, Summer, Peterof, Tsarskoye Selo, etc.	3	Performance Venues Mariinsky Theatre, Mikhailovsky, Alexandrinsky Theatre, Shostakovich Philharmonic, State Academic Kapella, etc.	3	Famous People's Homes Dostoyevsky Museum, Anna Akhmatova Museum, Nabokov Museum, National Pushkin Museum	2	8	1	69.2	
Elegance	Beloselsky-Belozersky Palace	2	Stroganov Palace	2	Nicholas Palace (especially the interior)	1	5	2	53.8	
Originality	Bridges Anichkov, Bank, Lions, Egyptian, Blue, etc.	2	Kazan Cathedral (Kazansky Sobor)	2	Church of the Savior on the Spilled Blood (Tserkov Spasitelya Na Krovi)	2	6	3	69.2	
Revelation	Chamber of Art (Kunstkammer)	2	Museum of Arctic and Antarctic (Muzei Arktiki I Antarktiki)	1	LabirintUm	1	4	4	61.5	
Grandeur	Huge, Magnificent Squares Palace Square; Arts Square, Ostrovsky Square, etc.	3	General Staff Building (Glavny Shtab)	2	Smolny Cathedral and Convent (Smolny Sobor)	1	6	2	61.5	
Selfhood	Victory Monuments Alexander Column, Monument to the Heroic Defenders of Leningrad, Narva Triumphal Arch	2	Nikolayevsky Palace/Art Center	1	Loft Project ETAGI	1	4	1	38.5	
Chronicle	Alexander Nevsky Monastery and Cemetery (Lavra Aleksandra Nevskogo)	2	State Museum of the History of St. Petersburg	2	Museum of Political History in the Kchessinskaya Townhouse	1	5	4	69.2	
Kinship	Neighborhoods Admiralty Quarter, Arts Square Quarter, Petrogradskaya Quarter, etc.	2	Ethnography Museum (Etnograficheskii Muzey)	1	Museum of the History of Religion	1	4	1	38.5	
Nature	Palace Gardens Summer (Letny Sad),Yusupov (Yusupov Sad), Taurida (Tavrichesky Sad), St. Michael (Mikhaylovskiy Sad)	2	Three Islands Krestovsky (including Victory Park), Yelagin (including Kirov Park), and Kamenny	2	Zoological Museum (Zoologichesky Muzey)	2	6	2	61.5	
Surety	Peter and Paul Fortress	2	Artillery Museum (Artilleriysky Muzey)	2	Naval Vessels Cruiser Aurora, C- 189 Submarine Museum, The Memorial Complex Submarine D-2, Icebreaker Krasin	2	6	1	53.8	
Synergy	Stars of the White Nights Festival	3	St.Petersburg State Circus	2	Divo Ostrov (Amusement Park)	1	6	1	53.8	
Dynamism	<i>Riverside Walk</i> s Palace Quay, University Quay, English Quay, Petrovskaya Quay	2	Boat Tours of the city's 93 rivers and canals	1	St. Petersburg's Tramways	1	4	1	38.5	
Sensation	Panoramas Strelka, Church of the Savior on the Spilled Blood, "Panorama of the Neva" Ramparts Walkway, World of Water Museum	1	Eliseyev Emporium	1	Museum of Russian Vodka	1	3	1	30.8	
					RESUL	TING	OVERALL C	CBI SCORE =	54.9	

BEAUTIFUL FACETS	RANKING TEST	CITIES	DETAILS	ABOUT US	BLOG	SITEMA

		CALCULATION OF THE CITIES BEAUTIFUL INDEX (CBI) FOR SYDNEY										
BEAUTIFUL	THREE TO		CIPLE FEATUR	RES IN E	ACH CATEGORY			HONORABLE	NORMALIZED			
FACET	Name	Score	Name	Score	Name	Score	SCORE	SCORE	TOTAL SCORE			
Epiphany	St. Mary's Cathedral	2	Great Synagogue	2	Sze Yup Temple	2	6	3	69.2			
Mentoring	Australian Museum	3	National Maritime Museum	2	Sydney Observatory	1	6	3	69.2			
Self- Fulfillment	Sydney Olympic Park	3	Kirribilli House and Admiralty House	1	Parliament House	1	5	1	46.2			
Elegance	Town Hall	1	No. 1 Martin Place	1	Anzac Bridge	1	3	1	30.8			
Originality	Sydney Opera House	3	Quarantine Station	1	Vaucluse House	1	5	1	46.2			
Revelation	Powerhouse Museum	2	Art Gallery of NSW	2	Biennale of Sydney	1	5	0	38.5			
Grandeur	Harbour Bridge	3	Sydney Tower	2	Central Station	1	6	0	46.2			
Selfhood	Speakers' Corner	1	Queen Victoria Building	2	Sydney Running Festival	1	4	2	46.2			
Chronicle	The Rocks	3	Cockatoo Island	2	Museum of Sydney	1	6	4	76.9			
Kinship	Neighborboods: Chinatown, Elizabeth Bay, Kirribilli	1	Sydney Jewish Museum	1	Sleaze Ball	1	3	1	30.8			
Nature	Royal Botanic Gardens	1	Hyde Park	1	Sydney Aquarium	2	4	4	61.5			
Surety	Fort Denison	1	Middle Head	1	Anzac Memorial	2	4	2	46.2			
Synergy	Darling Harbour	2	Circular Quay	2	Surry Hills Festival	1	5	1	46.2			
Dynamism	Cruising Sydney Harbor	2	Metro Monorail	2	Festival of the Winds	1	5	1	46.2			
Sensation	Panoramas: Sydney Tower Skywalk, Harbor Bridge Pylon	2	The Rocks Markets	1	<i>Beaches:</i> Tamarama, Bronte, Bondi	2	5	2	53.8			
					RESU	ILTING	OVERALL C	CBI SCORE =	50.3			

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BEAUTIFULFACETS	RANKING LEST	CITIES	DETAILS	ABOUTUS	BLOG	SITEMA

	CALCULATION OF THE CITIES BEAUTIFUL INDEX (CBI) FOR VANCOUVER										
BEAUTIFUL FACET	THRE	E TOP P Score	RINCIPLE FEATURES	S IN EAC	CH CATEGORY Name	Score	PRINCIPLE FEATURES SCORE	HONORABLE MENTIONS SCORE	NORMALIZED TOTAL SCORE		
Epiphany	Totem Poles in Stanley Park	2	Christ Church Cathedral	2	Guan Yin Temple a.k.a. International Buddhist Temple	1	5	2	53.8		
Mentoring	Museum of Anthropology	3	Vancouver Public Library	2	Vancouver Maritime Museum	1	6	1	53.8		
Self- Fulfillment	Olympic Cauldron, Vancouver Olympic Centre, etc.	3	City Hall	1	British Columbia Sports Hall of Fame and Museum	1	5	1	46.2		
Elegance	Fairmont Hotel	2	Marine Building	1	Robson Square	1	4	1	38.5		
Originality	Canada Place	3	Capilano Suspension Bridge	3	Granville Island Water Park	1	7	2	69.2		
Revelation	Science World at TELUS World of Science	2	Vancouver Art Gallery	2	Dr. Sun Yat-Sen Classical Chinese Garden	2	6	2	61.5		
Grandeur	One Waterfront Station	1	Lions Gate Bridge	1	Wall Centre	1	3	0	23.1		
Selfhood	Bill Reid Gallery of Northwest Coast Art	2	Vancouver Fringe Festival	1	Robson Street	1	4	3	53.8		
Chronicle	Gastown	2	Museum of Vancouver	2	Heritage Village <i>a.k.a.</i> Burnaby Village Museum	2	6	4	76.9		
Kinship	Neighborhoods: Coal Harbor, Yaletown, Strathcona, etc.	1	Festivals: Vancouver Pride, Chinatown, Powell Street	1	Chinese Cultural Centre Museum and Archives	1	3	1	30.8		
Nature	Stanley Park	3	UBC Botanical Garden	2	Nitobe Japanese Garden	2	7	4	84.6		
Surety	Vancouver Police Museum	2	Chinese Canadian Military Museum	1	Sins of the City Walking Tour	1	4	0	30.8		
Synergy	Granville Island	3	Lonsdale Quay	2	<i>Festivals:</i> Walk with the Dragon, VanDusen Garden Festival of Lights, etc.	1	6	1	53.8		
Dynamism	Grouse Mountain Skyride	3	Stanley Park Miniature Railway including Halloween Ghost Train and Bright Nights Christmas Train	1	Skytrain	1	5	2	53.8		
Sensation	Granville Island Public Market	3	Panoramas: Vancouver Lookout, Grouse Mountain Eye of the Wind, Prospect Point, Stanley Park Seawall, etc.	3	Beaches: Kitsilano, English Bay, Jericho, Spanish Banks, etc.	1	7	1	61.5		
	RESULTING OVERALL CBI SCORE = 52.8										

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BEAUTIFULFACETS	RANKING LEST	CITIES	DETAILS	ABOULUS	BLUG	STEMA

	CALCULATION OF THE CITIES BEAUTIFUL INDEX (CBI) FOR WASHINGTON, D.C.									
BEAUTIFUL	THREE T		CIPLE FEATURES	IN EAC	H CATEGORY	1	PRINCIPLE	HONORABLE		
FACET	Name	Score	Name	Score	Name	Score	SCORE	SCORE	SCORE	
Epiphany	Washington National Cathedral	3	St. John's Church	2	The Islamic Center of Washington	1	6	3	69.2	
Mentoring	Smithsonian Museums	3	Library of Congress	3	National Gallery of Art	2	8	3	84.6	
Self- Fulfillment	White House	3	Washington Monument	3	Lincoln Memorial	3	9	3	92.3	
Elegance	Jefferson Memorial	3	Dwight D. Eisenhower Executive Office Building	1	D.A.R. Memorial Continental Hall	1	5	2	53.8	
Originality	International Spy Museum	3	C & O Canal	1	Newseum	1	5	2	53.8	
Revelation	National Air and Space Museum	3	Bureau of Engraving & Printing	2	Marian Koshland Science Museum (National Academy of Sciences)	1	6	2	61.5	
Grandeur	L'Enfant's Master Plan for Washington D.C.	3	The Capitol Building	3	The National Mall	3	9	2	84.6	
Selfhood	Dumbarton Oaks	2	Hillwood Estate Museum & Gardens	1	Tudor Place	1	4	2	46.2	
Chronicle	National Archives	2	National Portrait Gallery	2	Ford's Theater	2	6	3	69.2	
Kinship	War Memorials Vietnam Veterans, National World War II, Korean War Veterans (etc.)	3	U.S. Holocaust Memorial Museum	2	Neighborhoods - - Georgetown, Dupont Circle, Foggy Bottom, Glover Park, Penn Quarter, Capitol Hill (etc.)	2	7	0	53.8	
Nature	National Zoological Park	2	The Tidal Basin	2	Theodore Roosevelt Island	1	5	3	61.5	
Surety	The Pentagon	3	The Supreme Court	3	Federal Bureau of Investigation Headquarters	2	7	2	76.9	
Synergy	Independence Day Celebration	3	National Cherry Blossom Festival	3	Smithsonian's Folklife Festival	1	7	1	61.5	
Dynamism	Potomac River Cruises	1	Old Town Trolleys	1	Bicycle and Sedway Tours	1	3	1	30.8	
Sensation	Panoramic views from Washington Monument, Lincoln Memorial, Capitol Building, Old Post Office (etc.)	3	Farmers Markets (40 in D.C.) Dupont Circle, USDA on Independence Avenue, Eastern Market (Etc.)	1	Music Festivals - - D.C. Jazz Festival, Summer Music Festival at the National Cathedral (etc.)	1	5	0	38.5	
RESULTING OVERALL CBI SCORE = 62.6										