

# Chinese Element Design of Villa Courtyard

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## ABSTRACT

There are many elements in the design of villa courtyard. With the development of the times, Chinese elements gradually enter the view and become an important element of garden design. Through the analysis of Chinese characters, Chinese paintings and poems in Chinese element designs, this paper extracts abstract fonts, colors and artistic conception from them. Guided by Donald A. Norman's emotional design, this paper briefly analyzes the basic constitution of villa courtyard, and derives three major design points: the basic composition, the dexterity and interactivity of space, and the coordination of function and form. The key points of the design, which are artistic, comfortable, ecological, and unique, are mainly highlighted in the landscape sketches, circulation routes, and vegetation configuration, which are derived from the mutual fusion of the two. Hope to describe in a more concise way in the use of Chinese elements in the villa courtyard can follow the design points and design methods.

**Keywords:** Villa courtyard, Chinese elements, Fusion.

## 1. INTRODUCTION

The modern society people to the living environment request unceasing enhancement, the villa this housing body gradually enters the populace field of vision, it demand also becomes bigger. The excellent living environment of villa is not only reflected in the indoor, but also the outdoor courtyard gradually occupies a dominant position, and the demand for it becomes higher and higher. Courtyard is a family activity, an important place to meet and make friends is an important exchange platform for foreign exchanges, people's demand for the courtyard has become higher and higher. For the villa courtyard planning should not stay in the past under the form, but have unique cultural characteristics of the country. The reasonable use of Chinese elements in the villa courtyard, not only to meet the functional needs of people for the living environment, but also improve the local cultural identity highlight the national characteristics, spread the spirit of Chinese culture.

In recent decades, foreign villa design is more complete than our development, more emphasis on harmony between man and nature on the basis of the realization of the original functional requirements. In the overall design, the landscape will be given priority in the planning, and the

original geomorphologic form, vegetation types and climate conditions of the construction site will be integrated planning, which provides data for other design before the beginning.

So, its environmental requirements as the primary design focus on planning. The composition of the villa is never a single one, it is closely linked with the natural environment. The design concept of villa is to integrate nature with people without isolation, showing a kind of harmonious and comfortable life state. The development of villa courtyard in China is not simple, it is accompanied by the overall development, in recent decades, roughly experienced three stages of development. The first stage is a complete copy of the Western stage, the process of design by foreign culture too much, ignoring the local cultural characteristics and design elements, the overall planning of the villa including the courtyard are completely copied without uniqueness. The second is the stage of random patchworks, the original single mode is impacted, so the different styles and styles of the model are placed at will, without considering the spiritual needs of the occupants. The third stage is the innovative reference stage, designers began to explore the design of foreign outstanding works of the main points, while in-depth exploration of the cultural spirit of domestic design.

The courtyard planning of villa should not only follow the original basic design principles, but also conform to the needs of the times in the planning and design of the courtyard to meet the requirements of the new era. Therefore, this article through to the original villa courtyard landscape design element induction analysis, fuses the traditional Chinese style element in the new time background to summarize in the later courtyard design may follow the main point and the method, resulting in a good circular impact.

## **2. THE DEFINITION OF CHINESE ELEMENTS**

Elements are the generalization and concentration of culture, and they are formal and concise summaries. Chinese elements contain a wide range of contents, which are the integration of Chinese characters, painting and poetry. Through the interpretation of the definition of elements and the detailed analysis of symbolic language, it is helpful to reconstruct and interpret the Chinese elements in the courtyard landscape.

### ***2.1 Definition of Chinese Elements***

The Chinese style element is the time culture which the profound cultural accumulation produces, the Chinese type element is various, regarding its understanding has many different views, mainly has the narrow sense broad sense two kinds of different argumentation viewpoints. Chinese elements in a broad sense mainly refer to all kinds of tangible and intangible things which can convey the spirit of Chinese traditional culture, which is the mark of the whole Chinese history. With the development of China, Chinese elements refer to the remarkable representative products of the times. Chinese elements have been used for a long time in China. Conciseness, splendor and delicacy are the essence of traditional Chinese space design deduced from the Qin and Han dynasties. These historical cultures have given us valuable design experience. Chinese elements are synonymous with Chinese traditional culture, and familiarity with these elements can enhance our understanding of Chinese traditional culture. Through the following examples of three representative elements, we can expand the audience of Chinese culture.

#### ***2.1.1 Chinese Characters***

Chinese characters have been around for a long time as an artistic symbol and as calligraphy. This

font is unique in the world. Training the ability to write Chinese characters since ancient times as a literati of the necessary skills is an important standard to measure knowledge. Chinese characters, that is, Chinese calligraphy, are written in accordance with the characteristics of the characters with their strokes, rules and structures, making them a work of art with a sense of beauty. The Noumenon of Chinese character calligraphy includes character method, stroke method, composition method, ink method and stroke style, etc. A variety of techniques are constructed in order to more vividly and vividly depict the artistic conception expressed by the text. Chinese character itself is a kind of embellishment element, which represents the nature, simplicity has a profound cultural connotation is an integral part of the Chinese elements.

#### ***2.1.2 Chinese Painting***

Chinese painting is also known as the Chinese traditional culture is one of the characteristics of Chinese culture, it is another window of traditional Chinese culture, mainly refers to the rice paper, silk to be painted and mounted on the scroll painting. The techniques in traditional Chinese painting are wide and deep, in which white techniques pay attention to the change of virtual and real, large areas of blank with a little virtual real image embellished virtual real, showing a profound artistic conception. The colors of traditional Chinese painting materials are also very particular about the creation of artistic conception, during which the representative colors are red, black, cyan green, beige and other typical colors, which show a typical Chinese painting style.

#### ***2.1.3 Poetry***

Poetry is a kind of condensed language essence in China. Poetry depicts one image after another in the form of written language, and image is the essence of it. Image is rich in emotion it relies on the refined text expression a few words can shape the atmosphere of the environment of the landscape characters. Image in Image Space is divided into four types: time, space, characters and scenery. Different environments shape different languages, and concise language constitutes the beauty of the artistic conception of poetry.

## **2.2 Analysis of the Objectification of Symbolic Language in Chinese Elements**

Chinese characters are rich in cultural connotation, and they have been used as formal symbols in spatial design for a long time in China. Chinese characters are evolved from the past hieroglyphics, is the abstract, pictorial expression of things, in the design can use the image of Chinese calligraphy itself, can also be combined with modern graphics to convey a profound cultural heritage. Chinese painting in the use of color and white techniques with Chinese characteristics, traditional Chinese painting with a simple mix can create a Chinese-style atmosphere, in which the white techniques are rich Zen; Emptiness and reality, depth and shallowness, motion and stillness can all be applied according to the whole structure of space. The images in poetry are exquisite, different poems correspond to different image environment, will not agree with the symbol division, according to the needs of the environment to choose, the scene of which carries on the materialization reconstruction may have the profound Chinese style connotation.

## **3. ANALYSIS ON LANDSCAPE DESIGN OF VILLA COURTYARD**

As an important part of the living environment, the villa courtyard has a variety of functions such as leisure, entertainment, reception and so on. Through definition and classified interpretation, a clear understanding of the composition of specific elements is conducive to the further analysis of the connotation of Chinese elements.

### **3.1 Definition of Villa Courtyard Landscape Design**

Villa courtyard mainly refers to the exterior activity space of villa, which is the blending place of living space and natural space. It has many spatial functions such as leisure, fitness, hospitality, entertainment and so on. It is an extension of the villa interior space. It mainly refers to the use of landscape planning techniques to optimize the villa environment so that it has ornamental and functional to meet the psychological and physical needs of people. Based on the analysis of the elements of the villa courtyard, this paper redefines the structure guided by the emotional design of Donald A. Norman.

### **3.2 Classification of Villa Courtyard Landscape Design**

The landscape design elements of the villa courtyard are the necessary factors to build a comfortable living environment. Ground paving, waterscape, vegetation and landscape sketches are the meticulous division of the landscape. Through classified interpretation, it is helpful to further clarify the specific composition.

#### **3.2.1 Ground Surfacing**

The ground pavement in the courtyard is a kind of commonly used decorating way, its material quality mainly divides into artificial stone material, natural stone material two kinds. According to the different needs of the ground pavement, the atmosphere of the shape, pavement can be roughly divided into types, patterns, colors, material four categories to describe. It can be divided into three types: garden road, driveway and platform. Garden Road is its connection with the courtyard and the line of each landscape node, to a greater extent to meet the functional needs of people. The primary function of the garden road is to connect the lines to guide visitors, so that the surrounding scenery can be connected together to the greatest extent. Its design should pay attention to the coordination of function and decoration, and play the role of beautifying the overall layout under the premise of playing a functional role. The driveway refers to the section from the villa entrance to the parking space, the design sign must take the garden road plan as the guidance. The platform is divided into two types, one is the entrance platform refers to the space from the villa gate to the landscape node entrance, the other is the leisure platform, which mainly refers to the activity space for the residents' daily leisure and entertainment; Both of them should have the function of practicality and beauty at the same time. The main point of the design of villa courtyard is the principle of harmony and unity. The design should show the effect of regularity, atmosphere and harmony. The composition of its design to be concise and bright, too many complex designs easily lead to chaos scene increase the cost of all aspects of expenditure. Paving in the courtyard color, mainly plays the role of background color, the color is mainly elegant to avoid the mixed colors caused by the scene confusion. Different colors have different emotional implications. Cool color is calm and warm color jump is an indispensable component of courtyard color design, the ultimate goal of color

collocation is to create a comfortable viewing atmosphere. Material aspects of the wide variety of paving can be roughly divided into artificial and natural two aspects for the choice of the surface is also more widely including: pebbles, plaza tiles, timber, stone, concrete, and so on. The use of the same material can play a coordinating role, the contrast of a strong material can give people a great visual impact.

### 3.2.2 *Landscape Sketches*

The landscape sketch in the villa courtyard not only plays the role of decoration, it is the organic combination of natural landscape and humanities, landscape sketch is the crowning touch in the courtyard landscape design to create more color for the overall atmosphere. Landscape sketches are not independent in the courtyard, he has to have a distinct personality color and integration of the whole, different texture, material, color, scale will have a huge impact. The landscape sketch is like an invisible passage that organizes and guides the whole courtyard, making the whole courtyard more infectious. Landscape sketches can be roughly divided into two categories: functional landscape sketches and decorative landscape sketches. Functional landscape sketch is mainly for the residents to provide a variety of convenient functional help. They are generally characterized by small size, simple and generous, bright colors. For example, garbage bins, outdoor tables and chairs, leisure swings, lighting facilities and so on for the residents to provide convenience, they not only play a functional role also has a prominent practical decorative effect. Decorative landscape in the courtyard of the distribution is also very extensive, roughly divided into sculpture sketches, waterscape sketches, their decorative effect is strong, play a foil to the overall atmosphere of the effect, give people to enjoy the spirit.

### 3.2.3 *Waterscape Arrangements*

The setting of water features occupies an important leading position in the villa courtyard, and it is the most intuitive means of space dynamic and static division. Waterscape can regulate the temperature of the whole space as well as the humidity of the air and the effect of dust suppression. Waterscape in the space can also play the role of fire protection. The waterscape in the courtyard can be roughly divided into four types: flowing waterscape, static waterscape, falling waterscape and gushing waterscape. The four forms

interlaced with each other to create a different waterscape effect. The flow channel is formed by the difference between vegetation and rocks in the space. The velocity of water is controlled in the model so that the scenery of the place where the water flows can be connected. The static water features in the courtyard can be roughly divided into two parts: viewing pool and swimming pool. The static water features are like a canvas, which can map the surrounding scenery into it and expand the level of space to increase its richness. The swimming pool is different from the viewing pool, it is more emphasis on the actual function, emphasizing the interaction between man and nature to increase interest.

Waterfall mainly refers to the courtyard of small waterfalls and stacked water landscape, compared with the flow of its more dynamic landscape, the formation of the curtain to bring visual and auditory effects of the dual, with the charm of classical China. The gushing water features mainly refer to fountains, the form full of vitality can increase the humidity of the air to make the whole courtyard more dynamic. The size of the fountains in the courtyard are relatively small, mainly divided into sketch fountains, floating fountains, stacked fountains, music fountains and so on.

### 3.2.4 *Vegetation Arrangements*

The use of vegetation in the villa courtyard is very important and plays a leading role in the whole courtyard. The selection of vegetation should be considered from the following aspects: the flowering period of the plant, the geographical situation of the plant, the volume and size of the plant, the species of the plant, and the growth cycle of the plant. When the vegetation carries on the spatial planning, it should consider the vegetation spatial composition, the vegetation landscape form, the vegetation ornamental effect as well as the vegetation ornamental type and so on. The choice of courtyard plants needs to fully consider the color matching, so that it can be combined in different seasons into different landscape effects, resulting in different visual effects.

### 3.2.5 *Analysis of Courtyard Design Under the Background of Emotional Design*

Ground pavement, landscape sketches, water layout, vegetation layout are all elements of villa courtyard landscape design. Under the background of Donald A. Norman's emotion design instinct,

emotion and introspection, this paper analyzes the basic structure of villa courtyard, which can be divided into constitution, function, form, interaction and emotion. To concretize it is to discuss the three major points: the basic constitution, the dexterity and interaction of space, and the coordination of function and form.

### **3.3 Landscape Analysis of Outstanding Villa Courtyard**

There are many forms of villa courtyard planning among which there are many famous cases. The following is a landscape analysis of Phoenix villas in Zengcheng District of Guangdong Province. Phoenix's overall villa is a six-block townhouse, the harmony between man and nature is the theme throughout which follow the main points of emotional design. The overall implementation of greening around the layout of the courtyard using a simple modern wind in the middle of the courtyard area is mainly in the vestibule and after the space style simple to small landscape nodes. The east and west two villas are similar in shape to each other. Unlike the middle family, the courtyard extends around, and the space is planned with the theme of the unity of heaven and man. Different sizes of space equipped with different hardware measures used granite, antique brick and diamond, matted pavement morphology, the configuration of plants is also rich in levels, primary and secondary clear.

## **4. ANALYSIS OF CHINESE ELEMENTS IN VILLA COURTYARD LANDSCAPE DESIGN**

Definition and classification are the premise of defining the Chinese elements in the courtyard landscape, and the design principles and methods are the key to the rational use of the Chinese elements. Through the detailed interpretation of the principles and methods, it is helpful to further transform the theory into practice and promote the transformation and integration of achievements.

### **4.1 Principles for Highlighting Chinese Elements in Design**

The Chinese traditional culture pays attention to its spiritual lasting appeal, this text Chinese style element uses Donald A. Norman's three kinds of emotion levels in the design, Instinct, behavior, reflection as the design direction and derived from the basic composition, spatial dexterity and

interaction, function and form of coordination of the three points, become the Chinese elements used in the basic points in the courtyard. That is, under the premise of observing the three major points, the Chinese elements extracted are given their cultural connotation in the background of the artistic conception in the poems, and then the traditional Chinese colors and calligraphy characters are combined with the modern culture; With the traditional white techniques to create a rich Chinese artistic conception of the courtyard landscape. The Chinese elements in the villa courtyard should be artistic, comfortable, ecological and unique.

The Chinese elements in the villa courtyard should be artistic, comfortable, ecological and unique. During the design process of the villa courtyard, the artistry is very important. The artistry in the courtyard is mainly the highlight of the aesthetic sense, and the Chinese elements in it are the main features of the main body, that is, the landscape sketches in the courtyard. Landscape sketch in the basic composition of the main performance of the space after the smart and interactive and function and form of coordination, prominent features are mainly reflected in two aspects, the first is in the tangible space and the second is in the invisible space. The beauty of the intangible space is mainly reflected in the emotional manifestation of the occupants themselves, mainly refers to the Chinese flavor, comfortable state, coordinated psychological feeling of the space. In order to create such an emotional atmosphere, the design should communicate with the residents at the beginning of the design. Clear his ideal mood is what kind of image to use poetry and other Chinese elements to express. The shape of the tangible space is mainly reflected in color, shape and so on. The layout of the courtyard should reduce the color of the traditional Chinese elements and add the traditional characters into it, and then merge with the modern culture. So that the old art with a new look to show out. Landscape sketch is the focus of the courtyard shape should be selected in the appropriate poetry of the representative of the use of appropriate color, that is, can highlight the characteristics and integration of the whole and highlight the atmosphere of poetry.

#### **4.1.1 Comfortableness**

The comfortableness of the villa courtyard mainly refers to the satisfaction of the expected value of the living psychology, that is, the space has

complete physical elements, enough activity space and complete equipment configuration. Space to avoid mental irritability will produce comfortable feelings. The comfort of Chinese elements is the order of entry and is the sequence of scenery and the flow of space route. In order to highlight these two points, it is necessary to focus on the exploration of the basic structure. The equipment configuration can be integrated into the traditional Chinese image characteristics under the premise of meeting the basic design and humanization standards. Increase the level of vegetation so that residents in the tour can produce a step-by-step effect, each landscape is a painting, landscape to be integrated into the Chinese color system, to produce the effect of the scene of traditional Chinese painting. Therefore, it is necessary to create a Chinese-style form by interlacing the forms of vegetation and landscape sketches. The circulation route is the key component of the comfort standard. During the course of walking, viewing first and then viewing will produce different psychological states and reach different expected values. Only in accordance with the Chinese culture into the way to shape in order to achieve the comfort of the Chinese style.

#### *4.1.2 Ecology*

The ecological appearance of courtyard landscape is to connect man with nature and produce the effect of sustainable growth, which makes the landscape have a certain degree of affinity, that is, the landscape has a certain degree of integration and sustainable development. The ecological characteristics of Chinese elements mainly refer to the fusion of vegetation and landscape characters. To highlight this point, it is necessary to focus on the study of spatial dexterity and interactivity. Wright's Water Villa, for example, blends modern, simple geometry into space without appearing isolated. Chinese poetry has a profound artistic conception, a simple image to create a profound atmosphere, the use of poetry in the image and the Chinese set method to continue the traditional landscape characteristics of the integration of modern scientific ecological techniques; Then it can realize the ecology and the sustainable essential factor production. Vegetation species and water composition have a great impact on ecological characteristics. The vegetation form and spatial density of Chinese elements have corresponding specifications, which should be taken as the standard to combine modern elements

for configuration, in order to achieve the ecological characteristics of Chinese elements in the courtyard.

#### *4.1.3 Uniqueness*

The uniqueness of Chinese elements mainly refers to the image elements based on Chinese traditional culture. The traditional villa courtyard is based on the western traditional landscaping mode, which has gone through two stages of blind moving and random assembling before reaching the artistic stage of carrying forward the traditional culture in modern times. Compared with the western elements, the Chinese elements themselves are quite different. On the basis of drawing lessons from the western modernization factors, the Chinese elements discard the cultural symbols inherent in the west. Taking the Chinese landscape design techniques and decorative elements into the meantime will produce different uniqueness, in order to highlight the real uniqueness.

#### ***4.2 Designing Methods to Be Followed in Program Planning***

Villa courtyard landscape design is a relatively high-end design, in addition to the design of Chinese elements as decorative elements, but also takes into account the basic functional part. The process of design should go through five parts: Prophase investigation, scheme design, construction drawing design, drawing checking and technical disclosure. The first part is mainly to understand the landscape appearance of the design site, the site survey to develop a complete site drawing, drawing the site map to accurately understand the scene of the situation. The second part is mainly to draw the site analysis drawing, design conceptual scheme, the third part is mainly to draw a clear construction drawings, the fourth part is mainly including self-inspection, proofreading of the main case and technical person in charge to check the three parts. The fifth part is to complete the detailed description of the construction drawings to the construction personnel, convenient after the construction.

### **5. CONCLUSION**

With the development of the times, the demand for villas becomes larger and larger, and the demand for the landscape of the villa courtyard is also higher and higher. The use of Chinese elements in it is the inevitable result of the development of the times. The use of Chinese

elements in the courtyard landscape in Donald A. Norman's emotional design as the premise, the Chinese elements in the villa courtyard in the artistic, comfortable, ecological, unique these four principles of reasonable play. In this paper, the Chinese elements of part of the node figurative and applied to the villa courtyard, hope to play a role in the garden design after the help. The starting point of the design is from the appearance to the internal process, modern villa landscape design should learn from other countries on the basis of excellent technology to carry forward their traditional culture in order to create a truly suitable place for their people to live. So, the occupants have a more comfortable environment experience.

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