

Foshan Binhe Landscape Park under the Study of Greenway Visual Space Attraction Mode

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Abstract

Greenways are an important part of our living environment in the new era. Its main function is to carry ecology, transportation, entertainment and rest. It is an important hub connecting people with the ecological environment and is of great importance. Based on the analysis of the visual space attraction of greenway, this paper studies the visual space attraction of the greenway in Foshan Binhe Landscape Park in Foshan Park, and conducts an in-depth study on the visual space attraction elements, form and overall pattern of the greenway in the Foshan Binhe Landscape Park. Taking "point", "line" and "surface" as the three types of visual space as the research carrier, to understand the relationship between the three, to build a model of visual space attraction of greenways in Binhe Landscape Park in Foshan City, to solve insignificant problems, and to improve The attractiveness of the beautiful and livable Riverside Landscape Park.

Keywords

Visual Spatial Attraction; Greenway; Foshan Binhe Landscape Park.

1. 1Research Background

1.1. Greenway Visual Space Attracts

When we acquire information in our daily life, the first thing we use is vision. Vision is the most commonly used one of the five human sense organs. About 75% of the information obtained by human sense organs is visual information. People can always quickly focus on the aspects of their own interest, [1] At the same time, the degree of interest in the landscape space can be judged by the frequency, time and repetition of the attraction of human eyes, which is an important criterion for evaluating the quality of landscape space.[2]

Greenway plays a very important role in enriching urban form, protecting and improving the ecological environment, and is one of the hot research issues in the field of eco-city construction. [3] Facing the status quo of the increasingly rapid development of Chinese cities, in view of the unbalanced development of urban greenway landscape spatial pattern and the lack of characteristic features, it is necessary to analyze the visual space attraction factors and morphological structure of urban greenway landscape. In terms of spatial form, focus on the shape and nature of straight lines, broken lines and curves, in design, pay attention to visual elements such as spatial scale and distance, plants, colors, entities, and water bodies, and pay attention to comfort and aesthetic evaluation in terms of feeling.[4-5]

1.2. Development Status at Home and Abroad

The research on greenway in foreign countries started earlier, and has gradually shifted from the discussion of planning methods and evaluation techniques to the study of greenway implementation, management strategies and the analysis of successful cases. [6] Urban greenway is an important part of urban construction and an important element of urban green space. Waterfront greenway plays a very important role in enriching urban form, improving

landscape quality and protecting ecological environment, and is a hot topic in the field of ecological city construction. [7] The corridor-like feature of the waterfront greenway makes it run through a variety of landscape space forms and landscape space nodes.[8-9]

The research and exploration of modern greenways in China began in the 1990s. At present, the relevant researches mainly focus on three aspects: the introduction of foreign theories, the introduction of foreign practical cases, and the theoretical and practical research of domestic greenways, [10-11] The relevant research on the evaluation of greenway use is relatively scarce, and only a few articles analyze the phenomenon of greenway use through questionnaires and describe and summarize them. [12-16] Whether it is the form of urban linear landscape visual space, visual planning and design and visual utilization, or the controllability of vision over urban linear landscape space, it mainly takes individual urban linear landscape elements as the research object, and lacks the overall urban linear landscape space. sex research. The research on urban greenway landscape space is mainly based on planning and design, specific space form and management. Visual-spatial attraction patterns are studied. Therefore, it is necessary to start with the visual space attraction elements, forms and patterns of urban greenway landscape, and establish the visual space attraction mode of urban greenway landscape, so as to provide value evaluation standards and planning basis for the future evaluation of urban greenway landscape visual space attraction. [17]

2. Research on Visual Space Attraction of Greenway

2.1. Analysis on the Attraction Elements of Greenway Visual Space

The visual space attraction element of greenway is the first and clear basic content of the construction of visual attraction model. We take the Foshan Binhe Landscape Park as the research object. Based on the research results of the seven types of landscape visual space attraction elements that have been studied by predecessors, the visual space attraction is spatial scale and distance, entity, color, fleeting natural scene, plant, texture. and water bodies. [17] Under the seven types of landscape visual space elements, clarify the visual attraction elements of Foshan Binhe Landscape Park, conduct in-depth research on its attraction elements, and understand the area ratio between the elements during the research process, which is the next greenway vision. The construction of the spatial attraction model lays the foundation.

2.2. Greenway Visual Space Attracts Form Integration

The spatial form of greenway landscape generally refers to the multi-dimensional space, large-scale, static, relatively long-term or even permanent material entities in the urban greenway landscape, such as the linear space of the greenway itself, historical sites and relics. , buildings, structures, squares, vegetation, water bodies, mountains, infrastructure, markers, etc. [17]The visual space form of a greenway is that people are in the greenway area and capture various visual elements or a combination of elements through the naked eye, which triggers people's visual attraction. Through the analysis and integration of these visual attraction elements, the degree of their influence on the overall visual space attraction pattern of the park greenway is studied.

2.3. Research on the Overall Pattern of Greenway Visual Space Attraction

The research on the visual space attraction composition of urban greenway landscape is based on the ecological network to build a theoretical framework—"patches, corridors and matrix"[18], which is a typical point, line and surface planning and design method. Within the scope of large-scale landscape space, greenways connect various green infrastructures and open spaces in the city, and at the same time effectively integrate natural resources and tourism resources, promote the integrated development of urban and rural areas, and connect the urban green space system with the rural green system. Common development, become a

natural, open green ecological network space. When people are in the landscape space, their line of sight will be attracted by some unique landscape elements. At this time, people's line of sight is like a searchlight on the stage, focusing on the attracted landscape visual attraction elements, while other landscape elements cannot be clearly seen or even caught by the line of sight. Ignore.[19-20]Based on the appeal, the research will refine the visual planning and design techniques of "point", "line" and "surface", and analyze the "full open", "semi-open" and "closed" visual space of the greenway, so as to raise existing problems. and improve the optimization plan.

3. Research on Visual Space Attraction of Greenway in Binhe Landscape Park, Foshan City

3.1. Overview of the Research Object

Since 2010, the Foshan Municipal People's Government has formulated the "Foshan City Greenway Network Construction Plan (2010-2020)" and other related plans between 2011 and 2015, which provide a basis for guiding the construction of greenways in various districts. Foshan New City Riverside Landscape Belt is a key project of Foshan City's "Three-Year Urban Upgrading Plan". At present, a riverside ecological corridor with a total length of 5 kilometers and an average width of 100 meters has been fully completed. Foshan New Town Binhe Landscape Park is a belt-shaped urban park. Binhe Park is about 3.4 kilometers long and ranging from 25 meters to 310 meters in width.

Foshan New Town Greenway is built along the nearly 5-kilometer-long new city riverside landscape belt. The greenway construction integrates traditional Foshan paper-cut art elements, Lingnan architectural elements, etc., integrating sports and fitness, recreation and leisure, cultural display, and waterfront landscape. urban ecological leisure greenway.



Figure 1. Location analysis of Foshan Binhe Landscape Park
(source: author's own drawing)

3.2. Foshan Binhe Landscape Park Greenway Landscape Visual Space Attract Content

3.2.1. Visual Space Attraction Element - "Point"

Vegetation has strong plasticity. Vegetation is the most important element in the landscape, and it is also one of the important foundations for the greenway to carry the ecology. The water body is the main element in the greenway landscape space of Binhe Landscape Park in Foshan City. Its volume and shape have a great influence on the selection and design of the greenway. The revetment of the greenway along the lake enriches the form of the greenway. Compared with other greenways, Foshan Binhe Landscape Park has significant particularity in the

recreation and interaction area, which is also the most visually attractive visual resource element among the visual space attraction elements of the greenway landscape of Foshan Binhe Landscape Park. The linear space boundary of the greenway and the revetment of the lake are one of the elements of visual attraction. People's visual center always moves with the change of the boundary, which is the expression of people's psychological feelings about the space field of the place. The main color of the greenway It is a green blend of evergreen species with other colored species and seasonal flowers. The colors of playgrounds, small buildings and signage systems are brighter and brighter, and become the landscape elements that attract people's attention. The prominent terrain, convenience stores, sculptures and iconic structures in the greenway have become the physical elements of visual attraction. All kinds of animals in the lake, birds in the air and changing weather are the visual attraction elements of the fleeting natural scenery in the greenway landscape space, and these elements add agile vitality to the greenway landscape space.

3.2.2. Visual Space Attracts Form - "Line"

Foshan Binhe Landscape Park greenway landscape visual space form can be divided into three types: fully open visual space form; semi-open visual space form and closed visual space form. (1) The fully open visual space form is the first scenic spot of Binhe Landscape Park - Youth Stage as the starting point, along the waterfront greenway to the fourth scenic spot - Dream Foshan; the eleventh scenic spot - Paper-cutting Gallery to the twelfth There are two scenic spots, Cherry Blossom Valley. The two fully open visual space forms are located on both sides of Foshan Binhe Landscape Park. Standing on the greenway and looking up to the other side of the river, you can see the high-rise buildings on the opposite side. The two fully open visual space forms respectively form ecological corridors, and the "New Year pictures" corridors with Lingnan characteristics are connected in series along the line, forming a waterfront greenway visual space with Foshan style, forming a fully open visual space form. (2) We take the semi-open visual space form mainly located in the central area of Binhe Landscape Park. The fifth scenic spot - Children's Paradise, the sixth scenic spot - Musical Fountain and the seventh scenic spot - five-a-side football field are the main junction points. Tall trees and green spaces form a gloomy green visual space. Trees and winding greenways separate the sparkling riverside landscape, as well as the bustling and noisy urban streets, creating a green visual space of paradise in the complex city. The landscape nodes in the visual space of the greenway appear rhythmically with the twists and turns of the greenway. Along the way, signs with a modern design or landscape sketches with humanistic style and Lingnan characteristic elements form the most symbolic part of the park. Visual space attracts elements. (3) The closed visual space forms the landscape greenway along the lake from the wetland park to the open-air swimming pool. The greenway is mainly wooden plank road, which brings the most intuitive greenway perception and attraction to the people who walk from the entrance all the way here, becoming a riverside A poetic visual impression of landscape parks. The greenways in the wetland park are criss-crossed, the bridge between the sightseeing area and the rest area, and the pavilion with rest function has become the center point of the wetland park. People walk on the visual space of the greenway to realize the greenway that will change with the changing. It changes from space to space, and is subconsciously attracted by different visual space attraction elements. These greenway landscape visual space attraction forms provide people with a sense of safety and comfort, which closely connects people with the environment and creates a good greenway environment.



Figure 2. Foshan Binhe Landscape Park Visual Space Attracting Form
(source: author's own drawing)



Figure 3. Visual space form: fully open (left), semi-open (middle), closed (right)
(source: author's own photo)

3.2.3. Visual Space Attracts the Overall Pattern - "Face"

The three greenway forms of Foshan Binhe Landscape Park have established the overall pattern of the park. We regard Foshan Binhe Landscape Park as a strip-shaped whole, take the visual space attraction elements on the park's greenway as the "point", and start from the origin. View important greenway landscape visual nodes such as buildings, squares, vegetation, and water bodies from different angles. The greenway sight lines between the above-mentioned greenway landscape visual nodes are regarded as "lines". In the strip-shaped waterfront greenway, it is not difficult to find on the main visual axis that the visual axis of Foshan Binhe Landscape Park is mainly in a fan-shaped emission state. On the visual scale, the scale of the visual space of the greenway closer to the riverside is larger, with omnidirectionality, and vice versa. The visual experience in the visual space with the larger scale is mainly directional, which is a long-distance view. For example, standing on the waterfront greenway, the industrial buildings and high-rise buildings across the river are the main visual points. A macro view of the opposite bank; both the semi-open greenway and the closed greenway have a secondary line of sight, and the semi-open greenway has a semi-dominant attribute. A certain degree of privacy; the closed greenway belongs to the invisible visual space, and the viewpoint is the lowest. For example, standing on the wooden plank road in the wetland park, surrounded by wetlands, the rivers are mostly on flat ground or low terrain. Based on the research foundation of visual attraction, the visual space attraction elements, shape and overall pattern of the greenway in Foshan Binhe Landscape Park are analyzed, and the greenway visual space attraction model can be constructed. The greenway visual space with good landscape can quickly help us identify the specific direction we are in, and strengthen people's orientation awareness and visual memory.

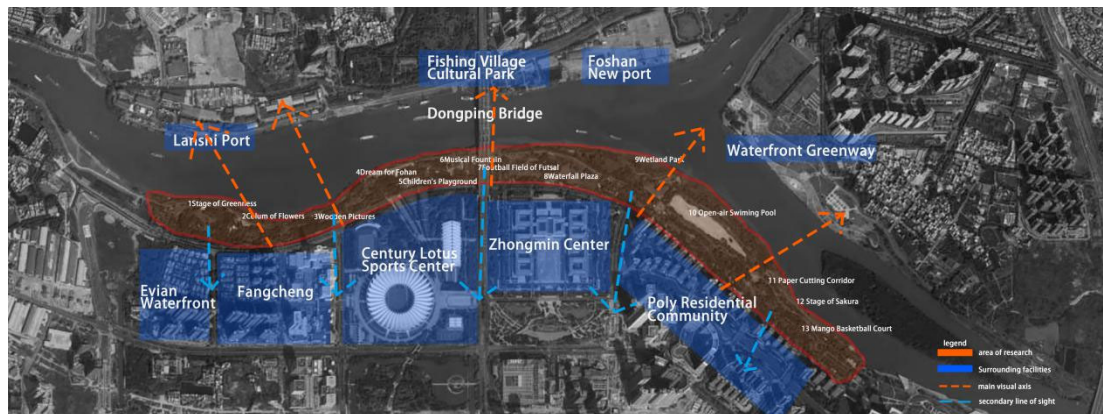


Figure 4. The visual space of Foshan Binhe Landscape Park attracts the overall pattern
(source: author's own drawing)

4. Conclusion

As an important part of Foshan Park, the visual attraction of the greenway in Binhe Landscape Park in Foshan is indispensable. The improvement of the visual space of the greenway can attract more tourists and local residents to play and exercise here, thus greatly improving the park. utilization of greenway space. Based on the principle of landscape visual space attraction mechanism, this paper deeply analyzes the content, visual space attraction form and visual space attraction overall pattern of greenway visual space attraction of Foshan Binhe Landscape Park, and constructs the greenway landscape visual attraction model of Foshan Binhe Landscape Park. The purpose is to optimize the visual space of the urban greenway to attract the form and pattern, and to provide a reference for the greenway planning and design of the urban park. The greenway visual space includes this visual emotional space in reality. In the future, the planning of the greenway can start from people's visual experience, and use the principle of visual attraction mechanism and visual space attraction mode to locate the waterfront greenway landscape space, and determine the energy The typical landscape space type that has an effect on people's vision is regarded as the key design area, and the human resources and natural resources of landscape vision are reasonably analyzed and planned, so that people can be more integrated with the ecological environment and build a sustainable urban settlement environment.

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