



การประชุมวิชาการและนำเสนอผลงานวิจัยระดับชาติ ครั้งที่ 6
วันที่ 6 กันยายน 2566

Feasibility Study of Naturalistic Style in Shark House——Taking Children's Shark House as an Example

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Summary

This study aims to explore the relationship between shark conservation and art design and the application of naturalistic style in shark aquariums. The study adopted the design concept of the Children's Shark House, which aims to raise awareness of marine environmental protection. Through literature research and case analysis, it reveals the survival problems faced by sharks and discusses the use of art design to improve public awareness and importance of shark protection. Combining with the promotion of marine environmental protection awareness, improve the public, especially children's awareness of marine environmental protection. The research is divided into the following three parts: Introduce the ecological environment and protection significance of sharks, analyze the naturalistic style and the design characteristics of the children's shark house, and propose improvement plans; design art works and evaluate their effect and significance on shark protection. This study is of great significance to promoting children's awareness of marine environmental protection, promoting shark protection and sustainable development of the marine environment.

Key words: shark aquarium, marine environment protection, children's education

introduce

Sharks are the top predators of the marine food chain and play key ecological roles in marine ecosystems. However, the sharp decline in shark populations in recent years has aroused widespread concern from the international community. According to statistics, millions of sharks are killed every year around the world, which is largely due to factors such as illegal shark fishing, predation demand, and the loss of the shark's ecological environment. Children are the future of society and their awareness and importance of protecting marine ecosystems and sharks is growing. However, due to their age and experience limitations, they are usually unable to effectively participate in marine environmental protection actions. Therefore, in order to guide children to have a deeper understanding of the importance of sharks and marine ecology, it is very important to carry out shark conservation education for children.



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Research objectives

This research aims to explore the feasibility and influence of the naturalistic style in the children's shark house, covering the investigation of the characteristics of the naturalistic style, successful cases of museum exhibitions, in-depth understanding of children's cognitive development and points of interest, and providing design references for display content and interactive experience , explore the integration of naturalistic style elements to create an immersive viewing environment, evaluate children's visit experience, including shark knowledge understanding, interest stimulation and environmental awareness cultivation, and finally put forward design guidance and suggestions to optimize children's visit experience and provide reference for similar projects in the future.

research problem

What is the feasibility and impact of a naturalistic style in a children's shark enclosure?

Research methods

The research includes population and sampling , questionnaire design and survey tools , data collection, data analysis and other steps. The purpose of this research is to explore the feasibility of the construction of children's aquarium.

Profile of sample demographic characteristics

name	options	Frequency	Percentage (%)	Cumulative percentage (%)
gender	male	47	37.01	37.01
	female	80	62.99	100.00
age	under 18	5	3.94	3.94
	18 - 25 years old	37	29.13	33.07
	26 - 35 years old	44	34.65	67.72
	36 - 45 years old	32	25.20	92.91
	over 46 years old	9	7.09	100.00
academic qualifications	junior high school	9	7.09	7.09



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name	options	Frequency	Percentage (%)	Cumulative percentage (%)
	High School/Vocational School	28	22.05	29.13
	undergraduate	82	64.57	93.70
	Master degree and above	8	6.30	100.00
identity	parent/guardian	37	29.13	29.13
	student	30	23.62	52.76
	educators	45	35.43	88.19
	Aquarium staff	15	11.81	100.00
total		127	100.0	100.0

Discover

The research includes population and sampling, questionnaire design and survey tools, data collection, data analysis and other steps. The purpose of this research is to explore the feasibility of the construction of children's aquarium.

1. descriptive analysis

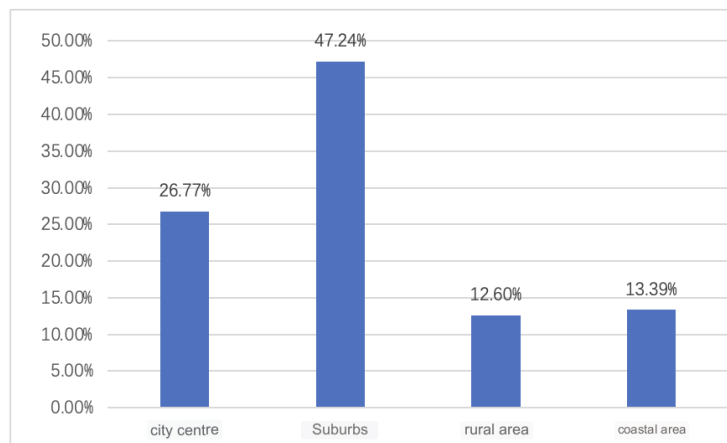


Figure 1 In what geographical location do you think the children's aquarium should be built



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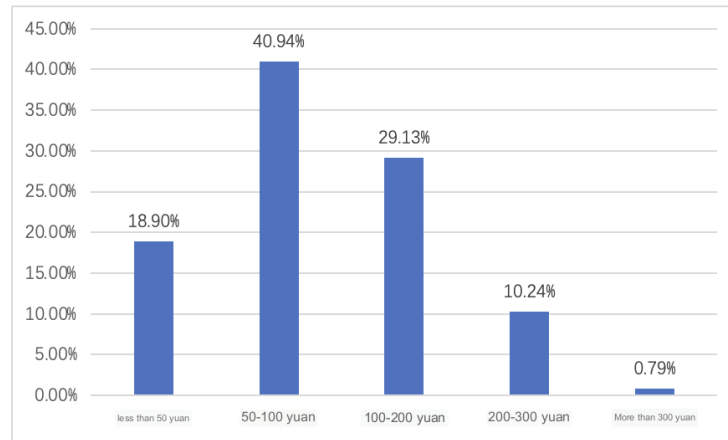


Figure 2 What do you think the price range of tickets for the Children's Aquarium is?

It can be seen from Figure 1 that most of the interviewees believe that the children's aquarium should be built in the suburbs of the city, accounting for 47.24%. Followed by urban centers, accounting for 26.77%. It can be seen from Figure 2 that for the respondents, the most suitable price range is 50-100 yuan, accounting for 40.09%, and the most unsuitable price range is higher than 300 yuan, accounting for 0.79%.

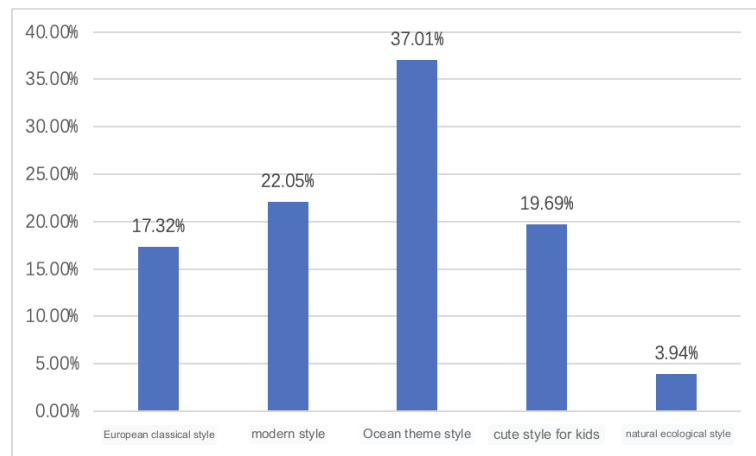


Figure 3 What is your preference for the design style of the children's aquarium

It can be seen from Figure 3 that most respondents prefer children's aquariums with ocean theme, accounting for 37.0%.

The results show that educational needs and entertainment needs have a significant positive impact on the willingness to visit the children's aquarium. This means that when children visit the aquarium, they not only hope to gain knowledge and learning opportunities, but also pursue entertainment and enjoyment experiences. Children's dual needs for education and entertainment make the aquarium an attractive place for them.



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2. Case study:

The Chaoshan Museum Expo Center is a cultural center in the Chaoshan area. It displays the history and development of Chaoshan with its unique architectural style and rich cultural connotations. The exhibits are integrated with modern installations and multimedia AR technology to provide personal participation and immersive experience, and promote the inheritance and development of Chaoshan culture. This study takes the design of children's sharks as a starting point, stimulates children's interest in marine environmental protection through innovative design, cultivates their environmental awareness, and promotes the innovative development of children's education and marine environmental protection.



Personal work introduction

This work takes the relaxed and cute style as the starting point, and uses rich candy colors in the interior, which can bring joy and happiness to children. Bright colors can greatly stimulate children's curiosity and creativity. There are simulation models of sharks in the pavilion, which can better allow children to get in touch with and observe marine life at close range; on the right side of the pavilion, there is an arched door. In the arched door corridor, the time axis is used as the main line, so that children can learn about the history and evolution of sharks, and have a feeling of entering a time tunnel.





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Summarize

This research aims to explore the feasibility of the children's shark house through the design of naturalistic style, so as to promote children's understanding of marine environmental protection and cultivate environmental protection awareness. By restoring the natural environment, creating an immersive viewing experience, and providing an educational learning environment, this research aims to guide children to have a correct understanding of sharks, and stimulate their curiosity and sense of responsibility for environmental protection. This research is of great significance for children's education, marine environmental protection and improvement of children's visiting experience.

references:

- [1]Becker , D. (2014). Designing for learning: Interest, motivation, and engagement. In D. Jonassen (Ed.), Handbook of research on educational communications and technology (pp. 607-615). Springer.
- [2] Falk, JH, & Dierking, LD (2013). The museum experience. Whalesback Books.
- [3] Jensen, E. (2008). Brain-based learning: The new paradigm of teaching. Corwin Press.
- [4] Packer, J., & Ballantyne, R. (2016). Connecting children to nature through authentic nature experience: An exploratory study. Environmental Education Research, 22(7), 991-1011.
- [5]Csikszentmihalyi, M. (1990). Flow: The psychology of optimal experience. Harper Perennial.
- [6]Kuo, F. E., & Sullivan, W. C. (2001). Aggression and violence in the inner city: Effects of environment via mental fatigue. Environment and Behavior, 33(4), 543-571.
- [7]Malone, T. W. (1981). Toward a theory of intrinsically motivating instruction. Cognitive Science, 5(4), 333-369.
- [8]Vorderer, P., Klimmt, C., & Ritterfeld, U. (2004). Enjoyment: At the heart of media entertainment. Communication Theory, 14(4), 388-408.