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The design method for producing diversified proposal from the perspective of biodiversity

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ABSTRACT. *"How to create diversified proposals?", as an indispensable process in the design process determines the overall quality of the design. In the design, designers often find that they have not found their own design methods, or have found their own routines to use them all the time without innovation. Due to the lack of thinking about diversification, innovation now comes from the designer's driving force is being challenged. In real life, biologists have developed a variety of methods for biodiversity in response to diminishing animal resources, which has something in common with the methodology for producing diversified project. This article will focus on the generation of diversified proposal, combined with the perspective of biodiversity protection measures, on how designers can produce diversified solutions.*

Keywords*: Design, Diversification, Biodiversity, Design method*

1. The understanding of diversity

A system formed by combining different characteristics of objects can be called a diversified system, and the diversification here is the reverse of specificity or simplification. For designers, the diversity of design can be understood as the breadth of the quantity and the length of the design range.

1.1 Diversification of the quantity

In the design work, the designer is very important to the management of the design process. It is what we need to expand at every step of the design. Design

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research, user positioning, concept elaboration, presentation, etc., every time a noun comes, it will produce countless variables. To diversify your design, there is no doubt that you want to provide as many variables as possible, and then combine them into as many proposals as possible. There are countless possibilities for the myriad of variables at different stages of the process, subjectively arranged by the designer.

1.2 Diversification of the design range

But design is a process from point to plane and then from plane to point. In the process of problem solving, Designers will consider a number of limitations in the process of problem solving. They will clarify who is more involved in the design of the subject, determine the quantification in the variables, and limit the development of the variables. To obtain a more in-depth design point, which is also deepened within the design.

Based on such a process from opening to tightening, I believe that the diversification of design schemes needs to expand the breadth of thinking in the early stage, and the depth of thinking in the later stage. This shows that the designer should grasp the interrelationship of possibilities within the system and use the rational measure to choose the key points.

2. Reasons for producing diversified proposal

In design, there is a term that is often mentioned - dimension. Designers should be able to propose diversified projects while being good at analyzing problems from different dimensions. Next, I will explain why we need to produce diversified projects from the three levels of economy, technology and philosophy.

2.1 Economy

Demonstrate a positive attitude towards customers to achieve value. Commercial value is probably the pursuit of most designers. The designer's job is to focus on the user, solve the problem, and provide value. But the way to impress customers is through quality persuasion. More diversified insights and result-oriented detailing

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often give designers more opportunities to export and achieve design professional value and impact.

2.2 Technology

Show the bandwidth of thinking. In accordance with the requirements of design diversification, we will have an opportunity to sort out and link various information and establish a reference system for the program in a diversified way. Moreover, the schemes form mutually supporting organization, which make the design concept evolve continuously. According to this comparison system, with the theory of evolution “natural selection”, the superiority of the final selection project is explained to the customer. Following this process, the design will have more persuasiveness and voice.

2.3 Philosophies

Exercise ability, making the foundation for more designs in life. Every design that affects the society and transforms the world is a collection of life design database. *Beyond Boundaries: the new neuroscience of connecting brains with machines-and how it will change our lives* mentioned[2]:”Essentially, all expressions of human nature, from cave paintings to Mozart symphonies to Einstein's view of the universe, come from the same source. They all come from the constant, energetic work of countless neurons connected to each other. All behavior is not dependent on the activity of individual neurons. The large number of neurons allows the brain to code for distribution, producing the brain's own views that have a decisive impact on how we perceive the complex world around us.” The passage suggests that when doing something over and over again, unrelated neurons connect to each other to generate new skills and ideas. The design methodology concluded by designers based on diversified thinking will have more independent attributes than narrow design methods.

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3. Diversified design from the perspective of biodiversity

Nowadays, the issue of biodiversity [3] is one of the hot topics of research on the environment and development of the international community. Biodiversity[4] refers to all living things in the biosphere of the Earth, namely animals, plants, microorganisms, and the genes and living environments they possess. There are inextricable relationships within the biosphere, and there is also a close relationship between the biosphere and human society. Therefore, biodiversity not only provides abundant natural resources for humans, but also maintains the functions of ecosystems. Numerous scientists have been working for many years to discuss this life-related subject. From this dimension, whether it can be provided to designers from the perspective of nature. Next, I will analyze the methods of output diversified proposal from the perspective of biodiversity conservation measures.

3.1 Classification protection

Most of the methods of in situ conservation and ex situ conservation are to build nature reserves and transfer organisms to zoos or botanical gardens. There are often many concepts in the designer's mind that flash through. How can we capture these highlights and record all the key points in their entirety? I think classification is a good way. As mentioned earlier, in the design work, the designer's management of the design process is very important. Process stages, different aspects, and different dimensions can be classified and summarized. At this time, it is clear and complete with some mind maps and blueprints to record and interpret.

3.2 Connection information

Species diversity can provide a variety of organisms, which play an important role in cultivating new varieties and improving old varieties. The species through artificial cultivation, will react to species diversity, such as cultivation of hybrid rice. The genetic composition of different species (rice and wheat) varies greatly. There are also differences in genes between the same species, such as wild rice and common rice. Each species is a unique gene pool. Just like every source of information we can reach, there is a strong information system behind it. So in

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addition to protecting existing ideas, we also can go to the aid of other information, together with the known information, establish new contacts. Use associate ability to diversify the project.

3.3 Formulating rules

Laws and policies constrain human behavior and also spread knowledge about biodiversity. After a large number of design practice, designers can be summed up their own design. When you make a proposal later, you can be more comfortable and save more time. Under the interaction of neurons, grasp your own thinking mode. For example, to establish a diversified reference system, when it comes to the customer, having logic rules can convince others.

4. Conclusion

Design as a human-centered creative activity, no matter how many new methods emerge, it is still how to understand the purpose of design and the nature of the design process. The essence of design is actually to create in a comprehensive and systematic way. Design not only needs to have great creativity, but also needs to face various subjective and objective factors that appear in the design process. Good design is not only creative, but also can coordinate the subjective and objective factors and then reunify.

When we asked the question “How to create diversified proposals?”, we actually entered the stage of designing solutions. Life is full of design. As the infinite reproduction of biological, the boundaries of design are endless. If the designer can grasp this “degree”, he can get a more diversified solution.

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