

Innovative Research on She Nationality Display and Design of Virtual Clothing Press Conference

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Abstract: At present, the research on virtual display in the inheritance and innovation of national costume culture is not comprehensive, and there are few actual successful application cases. She nationality is a small ethnic minority in eastern China, and its clothing culture has a history of thousands of years. Based on virtual clothing display design technology, the modern virtual display innovation in she dress culture, using Marvelous Designer 9 to complete she dress innovation style, and she dress color and pattern traditional elements skillfully applied in virtual clothing cloth, combined with C4D stage design, finally present the whole virtual national dress conference display design. The display design of She nationality simulates the effect of She nationality clothing, which is not only a design innovation of traditional clothing, but also a breakthrough of traditional design and display mode, enhancing people's love and ethnic confidence in ethnic minority culture.

1. She History

1.1. National History

It is understood that she is mainly living in east China population, in 2010 population survey, she total population is less than 710000, they are mostly distributed in the south, such as Fujian, Zhejiang, Jiangxi, Guangdong, Hunan and other more than 80 counties (cities) of some mountains, including Fujian, Zhejiang, she population accounts for more than 90%. These She people all call themselves "Shanha", but the specific source can not be studied. On the origin of the She nationality theory, there are "Wuling Man" said, Dongyi said, "Yue people" descendants said, etc.

"Wuling Man" said: The She Yao nationality originated in the "Wuling people" theory in Changsha during the Han and Jin dynasties. According to this theory, the legend of Panhu is a totem worship left over from the primitive society, and is widely known among the She people and most of the Yao people. The content of the legend is similar to the legend of Pangu spread in the Han and Jin Wuling man in the middle and lower reaches of Chang and Han. Therefore, it is believed that She nationality and Yao people are closely related to Wuling Man.

Dongyi said: from the clan migration, myths and legends, archaeological materials, cultural characteristics, we demonstrated that a branch of the "Wuling people" was formed by the integration of the Di Qiang (dog Rong) after the "Dongyi" moved to western Hunan and western Hubei.

"More people" descendants said: according to the ancient she people and the geographical distribution, folklore with historical records, or from the evolution of the national name, pronunciation, the more the same pan hu legend, common mode of production, production level and customs, etc., She is considered to be the descendants of ancient people.

1.2. History of the Development of She Ethnic Costumes

Since ancient times, She nationality has lived in the mountains. It mainly takes agricultural production and life mode, supplemented by hunting, which gives birth to the aesthetic psychology advocating nature. Its traditional clothing style is rich and colorful. She clothing is the main color of blue, and the fabric is self-made linen.[1]

At present, She men's wear is no different from the Han nationality, while some She women's wear in eastern Fujian and southern Zhejiang still have distinct ethnic styles. The collar, cuffs and right flap are decorated with lace patterns and people used to wear shorts around leggings. Especially in women, their hair is different from the Han nationality. Girls like to wrap them together with red hairy lines and hair, woven into long braids, coiled on their heads.

Married women usually wear a phoenix crown, a delicate small bamboo tube, wrapped in a red cloth handkerchief and hung with a red silk a foot long and an inch wide. Women of different ages, aged or young, also have black, blue, or red hairy lines in their hair. The crown is decorated with a round silver medal with three small silver medals; on the forehead, called a bun, meaning the phoenix crown worn by "three princesses". According to legend, Emperor Gaoling gave his three princesses to Panhu, who made a great contribution to the king's head. The crown is also gorgeous with silver clips, silver collars, silver chains, silver bracelets, and earrings.

2. Ethnic Clothing Characteristics

2.1. Colour

She women tend to prefer clothes with a strong sense of color. Blue tone and black tone belong to the main tone color, modern dress color will be in the headscarf, the apron with higher pure color, higher color saturation pattern pattern, but it still will retain the characteristics of dignified, deep, simple and mellow. The whole will still follow the color stability.

The origin of the black and blue tones of the main colors of the She costumes can be traced back to the living environment of the She ancestors. They have lived in the mountains for generations and lived self-sufficient. According to historical records, She people plant ramie and are good at the ramie industry, and looms have naturally become a necessity for every family. Almost everyone in the She nationality has learned to weave linen since childhood to provide clothing materials for a family for a year. Ramie cloth is of good quality, has good wear resistance, and will be worn when dyed blue and blue, which is not only beautiful, but also dirty-resistant.

The production mode of its costumes fully reflects the living standard of the She nationality in the old era, and can completely retain the production craft of the traditional costumes.

2.2. Model

She middle-aged women clothing also has certain particularity, most is made of linen, traditional she clothing on the basis of black and blue, selective in a skirt, cuffs and collar using red, yellow, white, green color inlaid lace pattern, color matching lively and interesting, and coordinated with the overall tone.^[2] Generally speaking, flowers with multilateral and wide clothes are the clothes of young and middle-aged women. They all wore aprons and a flower belt around their waist, the hand bandband. It is embroidered with "a hundred years of harmony", "five generations of prosperity" and other auspicious words. The others are blue prints, with a distinctive style. Clothes and aprons are embroidered with various birds and geometric patterns. They are colorful and beautiful.

2.3. Pattern

They can be arbitrary and original in the design and production process. In terms of techniques, the combination of embroidery or weaving and embroidery is based on real life, making these clothing patterns colorful and showing distinctive national artistic characteristics. The copywriting used on clothes will sew flowers, birds, clouds in the sky and rainbows after rain on clothes and skirts. Because all these materials come from nature, the patterns used in She costumes will have a sense of intimacy.

She dress patterns are mostly based on various life objects in daily life. Such as birds and animals, birds, birds, insects and fish, farm cars and horses, there are traditional geometric patterns such as 10,000 words, cloud head, cloud, gas, dragon lines, leaves, etc., some arranged into patterns. The form of the text has the original text, it has the regular script. Some auspicious words are often used, such as "five world Qichang", "three yuan and the first", "recruit money into the treasure" and so on.

3. Research Process of She Minority Virtual Clothing Exhibition Project

3.1. Digital Recovery of Virtual Clothing

The virtual clothing exhibition project mainly carries out the digital restoration of the clothing color and pattern patterns of She costumes. Due to the rapid development of modernization, the increase of color pattern patterns, and people's pursuit of beauty are very different. Therefore, the traditional She dress color and pattern patterns are not enough to meet people's current needs.

3.2. Innovative design of virtual clothing elements

This project is for young women targeting the wearer. First of all, the layout of the traditional She costume should have a certain degree of breaking, above, break the sense of restraint of the original national clothing, and pursue more relaxed and free and show the design of the female figure.

On the basis of the transformation style, focus on the extraction of embroidery patterns such as flowers, birds, animals and geometric patterns in the She nationality, and print them on the fabric in different ways than embroidery. The design of this project makes the patterns into translucent and reflective materials to increase its personalization. Patines are no longer only put in sleeves, collar, etc., but simple (local ornament) or numerous and complex (large area).

4. Production Process of She Nationality Virtual Clothing Exhibition Project

4.1. Analysis of She Costumes

Digital restoration clothing focuses on the summer daily clothes of She young women - large short shirt and knee-covered skirt. The color adopts the dark blue of traditional She clothes as the main color, among which the leaf patterns and cloud patterns are added.

The upper body is stitched with the left and right sides, and made by nails and false stitching in the sleeve part, as She women also wear silver accessories in the tie to reduce the weight of the model.

Kneskirt part is first contrast color is given priority to, the main skirt style of pleated skirt organ folds, can increase the lively skirt, because the digital fabric is thin, in order to restore the skirt style, using superposition double layer pleated, she women will wear a similar long apron, this is the dark stripes and geometric pattern.

4.1.1. Specific Steps

The virtual effect of model dress has an important reference role in the design of clothing. On the basis of 3D models, we need to draw the two-dimensional model of clothing first, and then sew virtual panels under 3D view, which is equivalent to realizing the clothing on the human body in real life.

The Marvelous Designer-based implementation steps are as follows: (1) Use Marvelous Designer 9 Personal polygons to make clothing layout slices and rectangles. (Figure 1a) (2) Sewing the layout, choose free sewing and line sewing (Figure 1b) (3) upper and lower setting of the layout (4) Add the fabric (5) Property setting of the fabric (Figure 1c) (6) change the 3-dimensional layout clothes to "square grid" mode (Figure 1d).

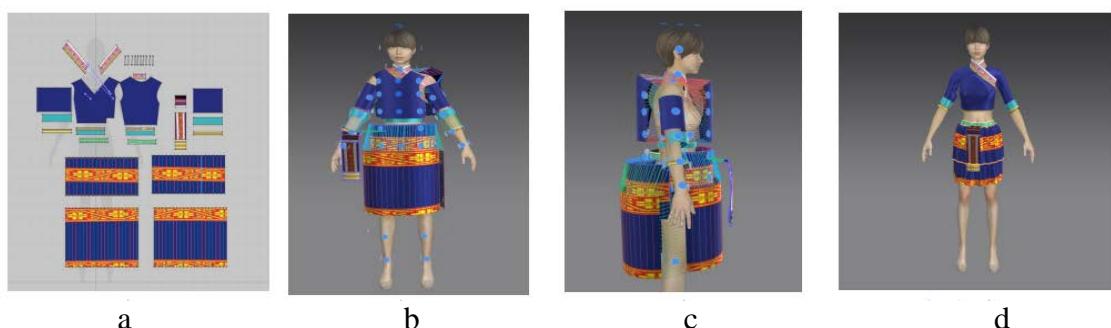


Figure 1 Design Process Display.

4.2. Analysis of the Innovative Production of She Clothing

Inheriting and carrying forward the clothing culture of specific groups or ethnic groups is the premise of maintaining human cultural diversity.[3]The innovation theme of clothing elements is the application and innovation of the romantic and quiet cosmic starry sky. The overall tone is currently mainly dark empty blue and quiet black. The style belongs to the sexy and comfortable style, and the traditional patterns such as animal and plant patterns and geometric patterns in the She nationality are adopted.The fabric of digital innovative clothing is mainly satin. In order to show the graceful posture of young women, the upper body is a sling petal chest, with striped patterns, plant patterns and triangular geometric patterns.The patterns of the two sling are made with complicated stars.The lower body is a multi-layer skirt, the outer layer is gauze texture, the top with broken star flash, there is a romantic and hazy sense, the style uses the U mouth petals that are irregular in the hem, which not only increases the mysterious color of women and increases the thickness and hierarchy of clothes on the vision.

4.2.1. Specific Steps

(1) Use Marvelous Designer 9 Personal polygons and rectangles to make good clothing layout pieces.(Figure 2a) (2) Lower the outermost skirt with the editing arc tool.(Figure 2b) (3) Set the fold of the skirt, make internal line spacing setting (4) Select folding tool, press the left mouse button to the desired fold (5) Sew the layout, choose free sewing and line sewing (Figure 2c) (6)Edit the number of layers of the skirt (7) Add fabric and attribute the fabric (8) Fabric UV texture adjustment (9) change its 3D layout clothes to "square grid" mode (Figure 2d).

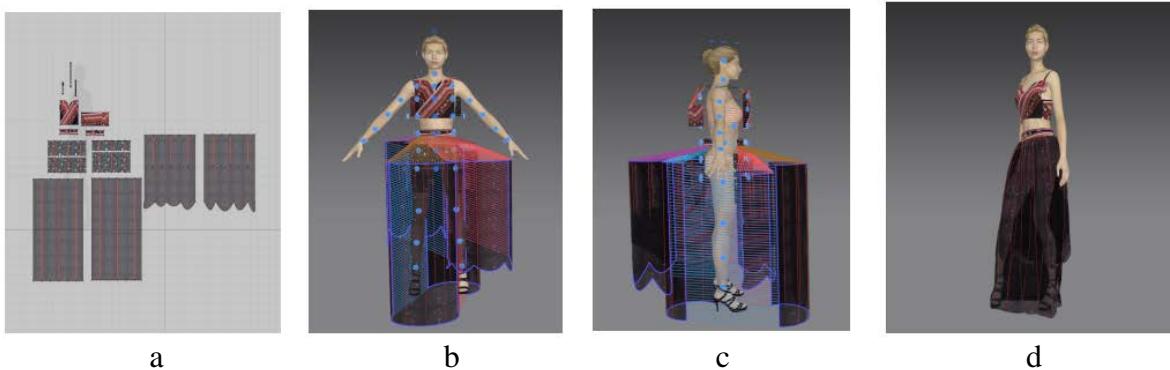


Figure 2 Design Process Display

5. C4D Stage Design

The stage design will be refreshing, can let people feel a sense of immersive from the theater, directly into the story.The stage lighting design is the C4D R19 version, and the stage design will be refreshing and immersive, bringing the viewer into the story.The stage lighting design is given priority to with reflective glass material, different angles, different light source, different color of spotlight need on the timeline and control panel K key frame, if the lighting range needs to change, also need to key frame, followed by material ball make lighting and reflection, to achieve a LED lighting effect.

The virtual stage display design has adjusted the camera, when using C4D stage camera setting, the focus on using multiple cameras to render at the same time.Camera adjustment also can not avoid the adjustment of key frame animation, and to be familiar with the attributes of the camera, and the proportion of the human eye viewing range, how to let the viewer see the whole press show in an orderly manner.First of all, add the camera must be in the center of the work, can show the whole environment, then you should start to use rotation, translation tool began to adjust, find the corresponding position on the timeline for keyframe production, finally, to the final position of keyframe animation closed, and the camera "small eyes", make virtual clothing conference she show design to achieve satisfactory design effect.(Figure 3)

The innovative research of She display design in this virtual clothing conference perfectly

restores She traditional clothing culture with modern virtual three-dimensional means. Project use more mature Marvelous Designer 9, make virtual clothing, combined with C4D modeling technology design stage, she clothing and modern virtual display, in the form of virtual conference to the public, can activate traditional culture in modern civilized society, broaden the road of cultural inheritance, to provide a way of many traditional culture protection.



Figure 3 Virtual Stage Shows The Effect.

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