

What is bingata?

Bingata is a traditional dyeing craft unique to Okinawa; some say that bin refers to color and gata means pattern, and appropriately enough it is renowned for its vibrant coloration – a vivid reminder of the tropics - and its stencil and paste line designs. It is thought that in the latter half of the 17th century (period of Second Sho Dynasty of the Ryukyu Kingdom), techniques to produce bingata were already

known. However, since historical records are few, and many bingata garments and stencils passed down for generations were also lost in the Battle of Okinawa during the Second World War, the true history of bingata is unknown. Bingata has been considered to be a symbol of authority, only to be worn by royalty and titled nobility; however recently it has come to light many inhabitants of Ryukyu. From the royal family down to the common people, had worn bingata designs on their everyday clothes. The craft of bingata has faced many calamities

such as the breaking up of the Ryukyu Kingdom or the devastation of the Second World War. Despite such turbulent times, bingata has continued to delight us and much is owed to two of the three leading bingata producing families, the Shiroma and Chinen, along with the folk art movement and recognition by researchers in mainland Japan. Currently, the craft of bingata is designated as an Intangible Cultural Property of Okinawa Prefecture, and broadly appreciated at home and abroad as a craft symbolizing Okinawa.



Procedure 1 Stencil cutting

Procedure 2 Placing the stencil

The katazome (stencil dyeing) technique uses katagami (stiff paper stencil) measuring the same width as the fabric. The stencil is made of traditional Japanese washi¹ paper coated with persimmon tannin ²; and in this case, it is used to allow resist paste to permeate those areas that will not be dyed. Commonly in Japanese stencil making, two types of techniques are used to cut the designs: hikibori (pulling the knife)³ and tsukibori (pushing the knife),⁴ but for bingata stencils, only the tsukibori technique is used. The stencil is cut using a dried tofu rukuju 5 as a base and with a special chisel known as a siigu. As seen in the diagram on the left, for loose motifs, thin pieces of paper called *tsuri*, indicated in black, are left to connect the motif to the outer frame.

In this process, a resist paste made of glutinous rice, rice bran, and salt is applied. The stencil described above is placed on the fabric and a spatula is used to

spread and level the paste evenly over the central design, until finally the tsuri lines are covered over. It is important to note the resist paste penetrates the fab-

ric through the stencil cut-outs, and these sections will be undyed, whereas the areas covered by the stencil paper, without paste, will be dyed with color. A sign of the dyer's skill is to place the stencil so carefully that joins do not stand out

in the finished design. In addition, in order to dye both sides of the fabric, the stencil is turned over and precisely placed on the reverse side of the fabric, and again the skill is to ensure the front and back patterns align perfectly.







Procedure 3 Coloring

In this process, the fabric is colored with vibrant pigments. To prevent any blurring, gojiru (soybean milk)6 is first applied to both sides of the fabric, and just before it dries, using a short haired brush, colors are applied working from pale to dark shades. This mixture of pigments and *gojiru* is brushed into areas of fabric not covered with the resist paste. Five colors are used: crimson red, indigo blue, yellow, black, and white. Green is made by simply applying yellow and then indigo. Since just one time of brushing does not impart the full depth of the color, after the whole fabric has dried, the same process is repeated to deep-en the shade. If the other side is to be colored, the whole process is repeated on the reverse of the fabric.





Procedure 4 Shading

This "shading" process creates a 3-D effect by the gradation of dark to pale shades, and can be seen here in the reddish-purple leaves. In Process 3, pale color has been applied first and before it dries, just a touch of darker color is brushed and shaded onto the fabric.





Procedure 5 Steaming

This is an important process to fix the pigments into the fabric by steaming the cloth for around one hour in a steam room to loosen the fibers, create gaps between them, and allow the pigments to permeate. This process is useful to prevent color irregularities and loss. In an older technique, instead of steaming the fabric, the pigments were fixed by leaving the cloth to dry in the sun and open air in a process known as karashi.



Procedure 6 Washing out the paste

In this process, the fabric is soaked in water to soften the resist paste, and then, by lightly pulling the fabric on the diagonal, the paste is worked out and floats free. After washing out all the paste, the fabric is dried to finish.



Several sheets of washi paper are laminated with persimmon tannin. In much the same way as plywood, sheets are placed on top of each other with the fibers laid in alternating directions, which prevents

A liquid prepared by fermenting astringent persimmon fruits; it has a waterproof effect and a treated stencil is not easily torn despite repeated use or contact with water and paste.

In Okinawa, rukuju is made of dried and oil-soaked shima-dofu (bean curd). The moderate amount of oil prevents the iiigu blade from rusting.

.. Gojiru is made by soaking soybeans in water and then squeezing out the liquid coptru is made by soaking soybeans in water and then squeezing out the liquid. The protein contained in the ggirm bonds with carbon dioxide in the air and solidifies, creating a water-repellent effect that prevents pigments and dyes from running. It also glues the pigments into the fibers as described in the next footnote. in vibrant beautiful colors, and also used for Japanese-style paintings. They do not dissolve in water, but exist as suspended particles, and in this state they will not fix into the fabric, but by adding the proteins found in *gojins*, they solidify and the min-eral particles are fixed into the fabric fibers.



Art of dyeing

What kinds of techniques are there to add color? For paper, we commonly use paints or crayous, but for fabrics, we must use a specific dycing method to prevent color loss when the article is washed.

In bingata, to dye a design, pigments are mainly used, many of them powdered minerals in a variety of colors. However, the powder alone will not stick to fibers. By adding gotin or soybean milk to pigments before application, they are fixed to the fabric. Gotpine contains a protein that bonds with carbon dioxide in the air and solidifies; this protein acets as a glue, sticking the pigments to the fibers, and the color is then said to be fixed.

In contrast, dwe is mainly used to make the background color. Dye con-

ments to the threes, and the coors is then stude to be absclground color. Dye con-tains coloring matter obtained from plants and animals, or more recently, chemicals for synthetic dyes, It dissolves in water and unites with cloth fibers at a molecular level. Many dyes will not wash out in water after being treated with heart, and so the color is fixed onto the cloth by steaming. The end result of dyeing may be similar, but the chemical reactions of pigments and dyes are quite different.

Motifs of bingata

Many of the designs found in bingata are animal and plant motifs. However, the images of hilbicus or coral, commonly associated today with the island of Okinawa, cannot be found in classical bingata. The designs seen in bingata

rather originate in other regions, because the Ryukyu Kingdom prospered as a hub of commerce, and diverse cultural influences from East Asia were evident in the kingdom. For example, images of snow-cowerd bamboo grasses are strong reminders of those in mainland Japan, and the dragon or phoenix designs are reminiscent of Chinese decorative arts. The peony flowers dyed on the Bingata Garment with Prony Design on White Cotton are also an auspicious design originating in China. Peonles are gorgeous flowers praised as "the king of flowers," and it is likely they would have been found on garments of the upper classes.

Bingata in Ryukyu Society

Formerly, the colors and designs of bingata garments were restricted for each social class. For example, a background of yellow, or the use of dragon or phoenix designs were only allowed for the garments of the royal family. The phoenix designs were only allowed for the garments of the royal family. The term Nahngata referred to hingarts worn by the common people, whereas the robes worn by the king and aristocracy were called Sharigata, and produced under strict management by government-controlled workshops. The peo-nies depicted in the Binguata Garmen with Prom Design on White Contro are typical of Sharigata garments, and examples similar to this design have been found in several other pieces; therefore, it is quite possible to consider that this garment was produced for an upper-class person, and in its time would have been at the height of fashion.

requenters une of the research, the Internship Research Group of Tokyo University of the ked under the guidance of the museum staff members and university faculty lated below (job titles are so of March 2017). The Group would like to offer elt gratitude and acknowledge their support of this exciting project.