Learning media using the tie-dye technique

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Abstract. The ready to wear clothes are developed through two stages, namely clothes designing and producing based on Martello Fort. The process of designing starts with first, the designing process which includes studying the references (idea, style, look), constructing the mood board, sketching, and designing motif. Then, producing which includes: a) preparation stage involving creating the work design, measuring the size, making the 1:4 scale pattern and the large pattern, designing the material, and estimating the product price; b) implementation stage involving creating the abstract motive using tie-dye technique, placing the pattern on the materials, cutting, adding stitching lines, bastinng stitching and sewing; and c) evaluation stage involving evaluation process I, evaluation process II, and final evaluating of the result. The result of the study is in the form of design of ready to wear abstract motive clothes inspired by Martello Fort. The design has a T silhouette consisting of three pieces, namely: a dress, obi belt, and jacket. The production of ready to wear clothes is not as simple as what it seems since this high-quality concept has an elegant and edgy design. The clothes are targeted for fearless urban teenagers within the middle and upper classes because most of these classes are interested in high-quality products and trend changes.

1. Introduction
Preserving Indonesian heritage is a way to uphold the culture of the nation [1]. One of the solutions is by creating clothes inspired by Martello Fort which reflects the 2019 fashion trend called Neo Medieval-Armory. The combination of the idea and trend creates a masculine, edgy, and elegant clothing design that incorporates an abstract motif called “Fortmedy”. This term stands for fort, mess, and edgy which resembles the fortified structure of the Fort inspiring the researchers.

Heritage is a legacy inherited from past generations. It can be found in the form of traditions, buildings, national parks, folklores, and the other old historical legacy. As the young generation, preserving heritage can be done in several ways [2]. One of them is by creating a fashion work inspired by a historical building called Martello Fort in Kelor Island, Thousand Islands, Jakarta.

Martello Fort is a Dutch colonial architecture built in 1850 for a fortress and watchtower that was built of bricks. This fort operated until 1878 before it was used for gunpowder storage. Martello Fort was started to fall apart after the earthquake and tsunami caused by Mount Krakatoa in 1883. In fact, the ruins of the fort became more attractive and unique in that it was inspiring the artwork. According to the explanation, the researchers concluded that the building was relevant to Neo Medieval theme and Armory as the subtheme in which it has a fierce concept reflecting Martello Fort that remains standing for a long time.

Neo Medieval theme is a part of the Singularity trend created by the Indonesian Creative Economy Agency (BeKraf) in 2018. This theme has its darker side as it conveys a message of good and bad things that may happen in the future or future possibilities. Those possibilities are represented in three subthemes. Firstly, the Futurist, a desire to escape from politics that is full of...
bad memories, nostalgia, and pessimism which reminds us of romanticism in the middle ages [3]. Those are depicted in the form of hi-tech works that have a romantic, clean, sleek, contemporary, and elegant impression. Secondly, Dystopian Fortress, a form of pessimistic thoughts about the world and society that will happen in the future, and it is the opposite of Utopia. At last, the Armoury, the theme chosen by the researchers, is pessimism about world security resulted in the rise of guardian knights carrying weapons. Armoury shows fragments, shapes, silhouettes, even assertive materials representing masculine, colossal, structural, strong, brave, and combatant impression.

In this research, the design inspired by Martello Fort is combined with Armoury sub-theme to bring a masculine, edgy, and elegant design. The researchers create the design by making a monochrome sketch of the building ruins which portray the abstraction of what remains [4]. The sketch is manifested into a motif fabric using a tie-dye technique resulting in a monochrome abstract motif.

![Picture 1. The Abstract Sketch of Martello Fort ruins.](image)

2. Research Method
The Fortmedy ready to wear clothes had symmetrical, edgy, and masculine concept dominated with monochromatic colors of the motif. The concept created an independent and tough impression with strong vertical lines cutting and horizontal lines on the waist. The design was using T line silhouette where the upper part of the clothing was bigger than the lower part, so it had a masculine impression. The Fortmedy clothes making employed the invisible seam stitching for the finishing concept and the tailoring sewing technique. The strong and masculine concept was chosen since the armoury theme was related to the masculine, colossal, structural, strong, fearless, and combatant impression.

The deformation method was used in developing the Fortmedy clothes design. It emphasized the character interpretation in which the shape of an object was changed by illustrating a representative part only [5]. This process was done by reducing some parts of a detailed object to get a simpler design.

The deformation was shown by the shape and motif of the clothes through a simplification of the fort’s texture and shape. The result of the design creation was a combination of the trend, idea, and development that resulted in a design consisting of a dress, jacket, and obi belt. Those three parts of the clothing were in harmony reflecting the trend, theme, and idea that was wanted to be manifested. Fortmedy design had straight and curved lines, a combination of horizontal and vertical lines, and symmetrical shape in a midi dress size. Those combinations created a unique and eccentric impression, and it was something new. The motif and decorative design were also embedded in the clothing. The motif design employed a tie-dye technique with a monochromatic abstract pattern based on the simplification of the building’s remains [6]. The decorative design was in the form of metal holes on the jacket’s sleeves and the midi dress. The metal holes were spread randomly but still symmetrical placed. The use of decorative items gave the design millennial look suitable for the trend chosen.
2.1. The Idea Exploration
The Fortmedy clothes were made according to the Neo Medieval – Armory theme of 2019/2020 Fashion Trend Forecasting that reflected a fear of possibilities of what might happen in the future. It resulted in the formation of “a fortress” showing the unique style of an army with the darker color palate. Therefore, in creating the design, the tie-dye technique and masculine impression were used for the sub-theme. This technique created a monochromatic abstract motif representing the view of Martello Fort remains.

Martello Fort had a circular structure with blackish-brown bricks. The Fortmedy clothing was inspired by this building. It became the fortress of VOC to ward off attacks from the Portuguese, British, Spanish, and even pirates who raged in the Jakarta Bay area. However, it was damaged from time to time especially because of the eruption of Mount Krakatoa in 1883. The application of the idea could be seen from the building’s circular structure, remains, and texture. The design reflected the texture of the ruin silhouette in the form of bricks. The bricks had a certain attraction since it was the main foundation of the building. The form of the bricks was applied to the bottom of the midi dress and to the bottom edges of the jacket and obi belt which formed a curved line reflecting the circular fort.

2.2. The Mood Board Making
In designing the clothes, a mood board was really important to turn the abstract into concrete ideas. The first step of making the mood board was collecting various sources in the form of pictures, colors, and things resembling the idea, followed by making the clothes design as well as equipment needed to make the clothes. The mood board was made on an A3 35 x 60 cm paper containing the following aspects.
1. The idea or inspiration
2. The selected trend and character
3. The image styles
4. The image color used in the party dress design making

2.3. The Design Making
2.3.1. Design Sketching
Design sketching is a design created to develop ideas and to be put on paper as quickly as possible”. It was the initial sketch drawing of the design consisting of various images in which one of them was chosen to develop the idea. The design sketch of the party dress inspired by Martello Fort is shown below:

Picture 2. The Mood Board
2.3.2. Presentation Drawing

Presentation drawing is creating a complete clothing design with colors and material motif on a specific pose including the front and back view. It is a picture or collection of pictures presented to customers. The presentation design was a complete design consisting of the front and back views of the clothes, colors selected, and other detailed information. Therefore, in presenting and laying out the design, there were some things should be considered, namely:

a) Doing the design sketch thoroughly on paper
b) Making the back-view sheet according to the body’s proportion or part of it (flat).
c) Giving detail information about the clothes
d) Attaching a sample of the material on the sheet, 2.5 cm x 2.5cm.
3. Result and Discussion

3.1. Result
This Fortmedy design consists of three pieces namely the dress, obi, and jacket. The jacket has a circular neckline without a collar. The oversleeve dress is completed with a jacket that represents that of a crop top. In the middle of the sleeves, there are metal holes spread randomly for the decoration. For the midi dress, there are strong vertical lines combined with the abstract motif as the attention-getter. The obi belt has a rigid shape like a protector on armor with a simplified form of the circular fort.

This set of ready to wear clothes are made of black wool for the jacket, midi dress, and obi. Black and white cotton fabric is for the midi dress. The colors chosen are from the trend stories of the Neo Medieval color palette. The ornaments are in the form of metal chains and eccentric sunglasses.

3.2. Discussion
In making the party dress for teenagers inspired by Martello Fort, understanding of the theme, meaning, and occasion, as well as the current trend is crucial. The design process starts with the exploration of the ideas which then applied to a mood board to make it easier and to avoid things that are irrelevant to the main idea. The next steps are design sketching, presentation drawing, clothes designing, and fashion illustrating.

The Fortmedy ready to wear clothes are designed with basic but complex technique. The concept used is high quality along with an elegant and edgy design. The design itself is created for fearless urban teenagers of the middle and upper classes. Most people belong to these classes are interested in high-quality products and trend development that match the concept of this design. To them, fashion reflects the lifestyle and social identity of a class.

4. Conclusion
The researchers have created a design of a night party midi dress for girls inspired by Martello Fort using T silhouette. The silhouette gives a masculine impression which reflects the Neo Medieval Armory trend. This ready to wear Fortmedy clothing in Tromgine fashion show is using tailoring
sewing and tie-dye techniques. The tie-dye technique in monochrome combined with the abstract motif reflects the Martello Fort remains.

Reference

[1] R. Asfina and R. Ovilia, ‘Be Proud of Indonesian Cultural Heritage Richness and Be Alert of Its Preservation Efforts in the Global World’, *Hum. J. Ilm. Ilmu-Ilmu Hum.*, vol. 15, no. 2, pp. 195–206, Oct. 2016, doi: 10.24036/jh.v15i2.6428.

[2] I. Szmelter, ‘New Values of Cultural Heritage and the Need for a New Paradigm Regarding its Care’, *CeROArt Conserv. Expo. Restaur. D’Objets D’Art*, no. HS, Art. no. HS, Sep. 2013, doi: 10.4000/ceroart.3647.

[3] A. B. Mallory, C. Spencer, J. G. Kimmes, and A. M. Pollitt, ‘Remembering the good times: The influence of relationship nostalgia on relationship satisfaction across time’, *J. Marital Fam. Ther.*, vol. 44, no. 4, pp. 561–574, Oct. 2018, doi: 10.1111/jmft.12311.

[4] M. Nurtanto, ‘Designing ignition system based ergonomic teaching aid in vocational education: Minimizing fatigue factors during practice’, *Int. J. Sci. Technol. Res.*, vol. 8, no. 11, pp. 300–303, 2019.

[5] J.-Y. Hwang, ‘Fashion designers’ decision-making process: The influence of cultural values and personal experience in the creative design process’, Doctor of Philosophy, Iowa State University, Digital Repository, Ames, 2013.

[6] C. Gitura, ‘Application of patterns in interior design: Case study of Nairobi serena hotel’, p. 124.