

MODERN SCANDINAVIAN STYLE CONCEPT IN APPLICATION OF INTERIOR ELEMENTS FOR CHILDREN'S STUDY ROOM

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ABSTRACT

By presenting a children's study room with a comfortable and conducive learning environment, it will support the learning process and increase motivation and concentration of children. Interior elements with Modern Scandinavian style will affect the interior atmosphere in the children's study room. To support the children's learning process, the processing of interior elements in the children's study room must be in accordance with the standards. This study aims to implement the Modern Scandinavian style concept in the application of interior elements of children's study rooms to provide a comfortable and conducive learning atmosphere for children. Research related to the discussion of the Modern Scandinavian style concept in the application of interior elements has never been studied by various parties, so the author brings up this discussion in the article. The design method uses 8 stages of the design process with qualitative and descriptive research techniques. This design shows that the modern Scandinavian style concept in the application of interior elements for children's study rooms can create a comfortable, safe, and conducive learning environment for children. This article is intended for students who are doing interior design, students who are doing internships, and designers who are doing research/projects related to children's study rooms.

Keywords: *Style, modern scandinavian, interior elements, study room, children*

1. PREFACE

Interest and learning culture must be preserved in the younger generation through the support of the surrounding environment, by providing a learning space for children. Some children are now required to carry out learning activities at home, so a study room is needed for children. Study room has an important role in the child's learning process. This room is an area for children to carry out activities such as studying, reading, and others that require special concentration with a conducive and comfortable atmosphere. A supportive atmosphere while learning could increase children's motivation to study harder because their concentration increases. The results of the research, which are summarized in the Journal of Learning Space in (Rejeki, 2021), show that temperature, lighting and sounds in the study room can affect children's performance in absorbing lessons. The interior atmosphere is formed through the elements that make up the interior space consisting of floors, walls, and ceilings. The combination of the three interior elements becomes a unified structure in a learning space.

According to (Olds, 2001), interior finishing affects children and overall design of the building. The materials used for finishing can also determine children's response to the interior. Therefore, the processing of floors, walls, and ceilings on interior elements must be designed according to standards for children. Interior elements in children's study rooms can be combined with a variety of shapes, light, colors, materials, textures and materials. The combination of these interior elements will ultimately affect the perception of visualization, proportion, and dimensions to create a conducive and comfortable learning environment for children, as well as to stimulate aspects of children's growth and development. (Permatasari, 2020)

The style in the interior develops every year along with the times. Scandinavian designs are quite

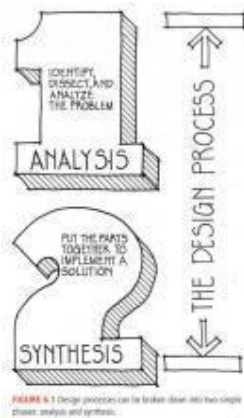
<https://doi.org/10.24912/ijassh.v1i1.25920>

popular these days and widely applied in Western countries. This style focuses on simplicity, utilization of each room, open lighting that gives a warm and comfortable impression to the room. The Scandinavian style design prioritizes functionality without losing its beauty and elegance with the materials used. The application of wood materials and the selection of neutral colors to give a warm feel to a space. Combination of Modern and Scandinavian style will create a concept between the present and the future. Therefore, this study aims to implement the concept of Modern Scandinavian style in the application of interior elements of children's study rooms. (Alfari, 2015)

2. DESIGN METHOD

Figure 1

Analysis & Synthesis Design Process



Source: Kilmer & Kilmer, 2014

According to Rosemary Kilmer, the design process is divided into two stages. The first stage is analysis, in the first stage, the problem is identified, dissected, studied, researched, and analyzed. The designer produces a proposal of ideas regarding the steps to solving the problem. The second stage is synthesis, in the second stage, the designer processes the results of the analysis process to produce a design solution which is then applied. (Kilmer & Kilmer, 2014)

In interior design process, there are 2 stage:

- (a) The first stage is programming, the process of analyzing problems that arise in the existing space where the designer collects all field data such as physical data, non-physical, literature and other supporting data.
- (b) The second stage is designing, a design solution to the problems that have been described in the previous stage. Several alternatives were then selected as the best and most suitable design solution.

Figure 2
8 Stages of Design Process

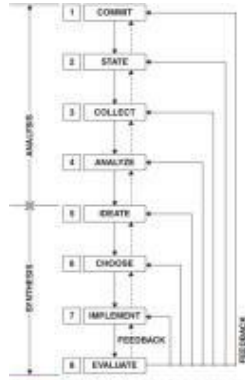


FIGURE 2.2 The design process is a series of sequential steps with feedback to all former steps.

Source: Kilmer & Kilmer, 2014

Design process according to (Kilmer & Kilmer, 2014), there are several stages based on the design chart (figure 2) and what designers do at that stage. The stages are as follows:

(a) Commit. At this stage, the designer (a) collects data in the interior design process of the children's study room.

(b) State. State is the stage of defining the problem. At this stage the designer (a) makes a design background, analyzes existing problems and determines the best solution, (b) compiles a program that will be used in the design.

(c) Collect. Collect is the stage of collecting facts and existing field data. At this stage the designer (a) conducts a field survey, (b) collect some non-physical data through the internet and books.

(d) Analyze. At this stage, the designer (a) analyzes the problem from the data and facts that have been collected, (b) determines the right design solution in designing the interior of the children's study room.

(e) Ideate. Ideate is a stage of issuing ideas in the form of schematics and concepts. In this process the designer (a) creates a design concept by making a moodboard which will later be applied to the design, (b) provides several alternative designs from the applied concept, (c) develops a design from the chosen alternative.

(f) Choose. At this stage, the designer (a) chooses the most suitable and optimal alternative from the existing ideas (b) makes a presentation drawing as a result of the final design design, (c) chooses materials and colors to be implemented in the interior design of the children's study room.

(g) Implement. At this stage, the designer (a) distributes ideas through 3D modeling and presents digitally or manually.

(h) Evaluate. At this stage, the designer (a) reviews the design that has been produced and gets an evaluation in the form of feedback from the client.

The research method used in this study is a qualitative and descriptive research method. This research was conducted by describing the project description that was handled systematically, according to the processes and stages in interior design. The author uses literature studies as a research method that related to "The Concept of Scandinavian Modern Style in the Application of Interior Elements for Children's Study Rooms" which was obtained through e-books, journal references, and websites as research references. Then, the researcher conducts an analysis that has been presented in a simplified form and finally drawn into a conclusion.

3. RESULT AND DISCUSSION

The concept of style is derived from a reflection of the personality of people who are implemented in an interior design obtained through research, surveys, and interviews with clients. Each design requires a style concept in its design. So, the designer can provide an overview or visualization of the space designed for the client in accordance with current trends. The organization of the style concept follows user needs according to technical requirements, and solutions to existing design problems.

The style in the interior develops every year with more varied styles according to the times. Modern style is the most popular style and is widely applied to present and future interior design. Modern style gives the characteristics of neat, simple, clean, simple, and functional. This style uses a lot of natural materials and is combined with geometric shapes. Modern style with open space makes the space feel wider. Sweetener space with a modern style is also equipped with ornamental plants.

In addition, the Scandinavian style is also quite popular these days and is widely applied in Western countries. Scandinavian style gives characteristics such as warm, natural, and simple but functional with the dominant use of light wood materials and neutral light colors, such as white, light brown, and other pastel colors. Wood patterned material is the main element of the Scandinavian style which is widely used in interior elements and furniture in a room. Scandinavian style also maximizes natural lighting by using windows with large openings. With natural lighting, it can minimize the use of electricity, especially lights in the room. Also, the use of fabric materials in furniture is widely used in the Scandinavian style. In this design, two styles are combined into 1 style, which is Scandinavian Modern style, that will be applied to the interior elements of the children's study room.

This design is located in one of the housing estates in Taman Grisenda Housing, Pantai Indah Kapuk, Penjaringan, North Jakarta. The design of this study room is aimed at children with the following criteria;

- (a) Age = 6 - 18 years
- (b) Users = 1 - 5 people
- (c) Purpose of use = studying, reading, doing assignments, using a computer, etc.

Interior elements are complementary and continuous elements in the design of children's study rooms. The scope of the children's study room design area consists of 2 floors with a mezzanine concept on the 2nd floor, in order to maximize the place and function of the children's study room. The 1st floor is used as a study room and doing assignments. In this design, the concept of Modern Scandinavian style is applied to the interior elements in the children's study room, which

consists of;

(a) Ceiling

The ceiling used in the children's study room is gypsum material finished with a white paint. Gypsum is a material that is widely used in residential homes. The application of white paint on the ceiling gives the impression of a wider, clean, and simple space. The white ceiling is suitable to be combined with the Modern Scandinavian style in the children's study room. The ceiling of the room is varied with an up ceiling. This type of ceiling has a raised surface and an LED strip as a hidden lamp around the ceiling, thus giving a luxurious impression to the room. Around the up ceiling, a gray list is given as a touch of beauty and elegance to the children's study room ceiling.

On the 1st floor, the ceiling at the bottom of the mezzanine uses a wood frame material that is coated with High Pressure Laminate (HPL) which is brown in color giving the impression of a warm space and showing the characteristics of the Modern Scandinavian style. The ceiling design of the children's study room can be seen in (Figure 3) below;

Figure 3

Children's Study Room Ceiling



Source: Winnie Tara, 2022

(b) Walls

The walls in the children's study room use brick material coated with a white paint covering the surface. Modern Scandinavian style dominantly uses bright colors such as white which gives the impression of a neutral, neat, clean, and spacious room.

In the 1st floor of the children's study room, a glass board is placed in the children's study area which can also be used as a substitute for a blackboard for studying, writing schedules, and other activities. Above the glass board, there are a storage and display area, in order to maximize the available space and function.

The wall on the staircase is maximized for its function as a place to store books and displays as well as the main accent in the children's study room. The material used as the bookshelf and display is plywood which is finished with High Pressure Laminate (HPL) in light brown color with wood grain texture as the dominance of the Modern Scandinavian style. At the top, there is a mountain panel with a wood pattern in light and dark brown colors as an accent of the wall. The wall panel as a focal point in the children's study room and LED Stripe lights as a lighting

accent.

The wall on the other side has a window with a large opening, so it can maximize the sunlight that enters the room. The use of lights can also be minimized in the morning until noon because there is enough sunlight to illuminate the children's study room at that time. The wall design in the design of the children's study room can be seen in (Figure 4) below;

Figure 4

Children's Study Room Wall



Source: Winnie Tara, 2022

(c) Floor

Modern Scandinavian-style flooring emphasizes wood elements on wood-patterned floors that give a warm, natural, and natural impression. The wooden elements on the floor dominate in the design of this children's study room, both on the 1st floor and on the 2nd floor of the mezzanine. The floor in the children's study uses a wood patterned material with Stone Plastic Composite (SPC) material. SPC provides a sturdier finish than vinyl because it's made of a mixture of rock and plastic. The SPC is water resistant and easy to maintain. The floor design in the design of the children's study room can be seen in (Figure 5) below;

Figure 5

Children's Study Room Floor



Source: Winnie Tara, 2022

Analysis Table

The following is a design reference and parameters for interior application of children's study rooms.

Table 1
Analysis Data based on Design Parameter

No	Interior Element	Application on Custom Interior	Design Parameter
1	Ceiling	High ceiling with gypsum / wood / plywood material	✓
2	Wall	Wall finishing with paint, panels with a combination of neutral color & patterned material wood	✓
		Open space	✓
		Windows with big opening for maximize sunlight	✓
		Maximize functionality on space	✓
3	Flooring	Using patterned floor wood	✓

Source: Winnie Tara, 2022

Design Result

Figure 6

Children's Study Room View 1



Source: Winnie Tara, 2022

Figure 7

Children's Study Room View 2



Source: Winnie Tara, 2022

Figure 8

Children's Study Room 2nd Floor



Source: Winnie Tara, 2022

4. CONCLUSIONS AND RECOMMENDATIONS

Based on research that has been carried out through library data collection and analysis, it can be concluded that the implementation of the Modern Scandinavian style concept in the application of interior elements, both on the ceiling, walls, and floors in the design of children's study rooms is in accordance with the characteristics of the Modern Scandinavian style as an accents in those room. This design aims to provide a comfortable, safe, and conducive room atmosphere for children through the implementation of the concept of style and the application of interior elements. The results of this design and research are expected to provide knowledge and benefits for further design and be useful for (a) students who are doing interior design, (b) students who

are carrying out internships, and (c) designers who are conducting research/projects related to children's study room.

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