

Design Criteria of Learning Space for Street Children: The Observe Rituals Method

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Abstrak—An essential dimension for street children in coaching and learning in urban areas like Surabaya is the independence of learning in individual street children who are related to their privacy needs. Awareness of these privacy needs can be done with a perception approach that will vary from one person to another. The appropriate form of architecture as an attempt to deal with the problem of street children in Surabaya is a learning space. The main target and scope of the learning space are in the city of Surabaya, with a dense urban range and high economy. The method used in the search for design criteria is the observe rituals method. The process starts by observing and recording in detail the various events in a setting. Search for design criteria in this study as data to be implemented in a force-based framework, which is then reviewed to produce a learning space architecture design. The movement and performance of children in the learning process is a significant factor in the search for learning space design criteria. The results showed that moveable, active, open, theatrical, and excited were essential factors to produce design criteria.

Kata Kunci—Independence of Learning, Movement, Performance, Privacy.

I. INTRODUCTION

THE problem regarding street children is one of the phenomenon problems faced by Indonesia. In handling street children, the Government of Indonesia has various necessary regulations. In addition to these regulations, the Indonesian government also has various programs provided to street children. However, the variety of programs does not affect the stage of social change in street children. Street children are not involved in the planning and decision-making process regarding empowerment, so there is no sharing of knowledge activities that ultimately, street children cannot develop their mindsets well. Not only official NGOs but small social communities are also very critical in voicing about how to meet the needs of access to education for street children in Surabaya. Therefore, coaching facilities in handling street children in Surabaya are needed. The appropriate form of architecture as an attempt to deal with the problem of street children in Surabaya is a learning space. The learning space has the primary target and scope in the city of Surabaya. The city of Surabaya is a relatively dense urban sphere with quite high movement and economy.

The main factor that needs to be improved is the independence of learning in each street child. Learning independence is a particular attitude that is obtained cumulatively during development. Learning independence is a learning skill that, in the individual's learning process is

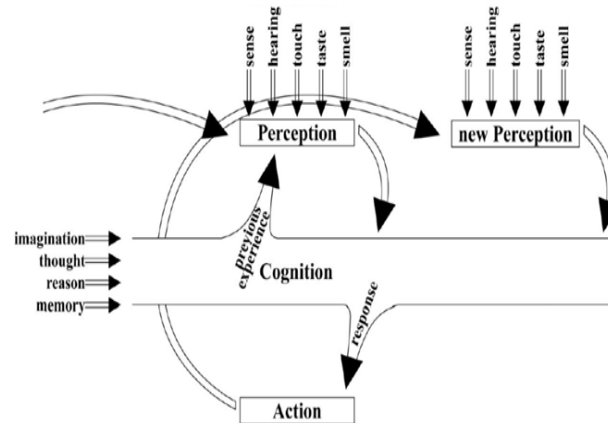


Figure 1. The relationship between perception and cognition.

Table 1.
 Observation of movement

Move, categorized as follows:	
Moveable	easy to move
Mobile	easy to move
Turbulent	agile
Lively	spinning, turning
Busy	agile
Restless	occupied
Changeable	uneasy
Active	changeful, inconstant
Shifting	enterprising, aggressive, energetic
Bustling	moving, changing
	hustle

Table 2.
 Observation of performance and practice room

Performance and rehearsal space, categorized as follows:	
Focused	Concentrate
Open	Overt
Charged	be imposed
Intimated	frighten
Theatrical	drama
Playful	cheerful
Mellow	soft
Shy	blushful, coy
Nervous	twitchy
Excited	passionate

encouraged, controlled, and assessed by himself [1]. Individuals will continue to learn to be independent in facing various environmental situations so that individuals will eventually be able to think and act on their own. Independence can make someone choose his life path to be able to develop better. Learning independence has a strong influence on learning outcomes, where the learning outcomes determine the quality of learning [2]. Street children have a low level of gaining independence. Little awareness will develop training materials that are owned and the lack of



Figure 2. Application of modules and activities carried out during the observation process.



Figure 3. The process of observing a movement.

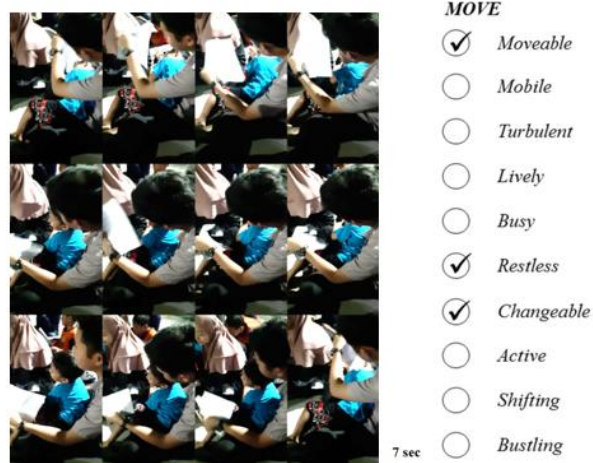


Figure 4. The process of observing a movement.

street children who have the knowledge to learn. The learning space for street children physically accommodates their need for space. Behavior learning space plays a role in the formation of space programs and architectural forms that approach the behavior of street children. Avoiding failures that allow street children do not need learning; it requires a more approach to the perception of privacy in the act of street children.

Responding to the independence dimension of learning in street children with a tendency to change buildings following the perception of the behavior of street children is very important to realize success in handling street children in



Figure 5. The process of observing a movement.

Table 3. Observation of movement

Move, categorized as follows:			
Group 1 :			
Time: Beginning (start teaching and learning activities)	1	Moveable	
	2	Busy	
1 student	3	Active	
1 teacher			
Time: End (finished teaching and learning activities)	1	Moveable	
1 student	2	Restless	
1 teacher	3	Changeable	
Group 2 :			
Time: Beginning-end (during teaching and learning activities)	1	Mobile	
	2	Lively	
2 student	3	Active	
1 teacher	4	Bustling	
Conclusion :			
Moveable		Highest	
Active			
Busy		Lowest	
Restless			
Changeable			
Lively			
Bustling			

Surabaya. It is essential for functional integration and mutual influence between learning spaces with learning independence and the perception of privacy in behavior that is inherent to the characteristics of street children. The learning space can respond to the perception of privacy contained in the patterns of interaction of street children, street children educators, and architect's knowledge of architecture for street children. Encourage the dimension of independence of learning and increase interest in learning without boxing the way street children adapt to their environment. The application of the privacy perception approach to the learning behavior of street children can be made with specific observational methods to produce design criteria that can be applied to the design of learning spaces.

II. THEORY/RESEARCH METHODS

A. Perception of Privacy

Perception can be easily defined as a cognition subsystem but also as a process of cognition (Figure 1). To connect the concept of perception with architectural theory, it must extract certain aspects of the concept that are adequate. The point of view tends to be different; the concept of perception

Tabel 4.
 Observation of performance and practice room

Performance and rehearsal space, categorized as follows :		
Group 1 :		
Time: Beginning-end (during teaching and learning activities)	1	Focused
1 student	2	Open
9 student	3	Theatrical
all teachers	4	Playful
	5	Excited
Time: Beginning-end (during teaching and learning activities)	1	Open
2 student	2	Charged
8 student	3	Intimate
all teachers	4	Theatrical
	5	Excited
Conclusion :		
Open		Highest
Theatrical		
Excited		
Focused		Lowest
Playful		
Charged		
Intimate		



PERFORMANCE AND REHEARSAL SPACE

- Focused
- Open
- Charged
- Intimate
- Theatrical
- Playful
- Mellow
- Shy
- Nervous
- Excited

10 sec

Figure 6. The process of observing performance and practice room.

is sorted as follows: creator of space → space → user of space. That means that the space created by the architect will become a reality and will then be felt by the user. This space will play a new spatial paradigm that reminds users how they should behave and use those spaces, who will do what, when, and with whom [3].

According to Altman , privacy is a process of selective control of access to oneself and access to others. Control is like, the distance at which humans move [3]. As for some privacy functions, the first function of privacy is the regulator and authority of interpersonal interactions, which means the extent to which relationships with others are desired, when it's time to be alone and when it's time to be with other people. Privacy is divided into two types, namely low privacy (occurs when relationships with others are desired), and high privacy (occurs when wanting to be alone and relationships with others are reduced). The second function of privacy is to plan and make strategies to connect with others, which includes



PERFORMANCE AND REHEARSAL SPACE

- Focused
- Open
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20 sec

Figure 7. The process of observing performance and practice room.

intimacy/distance in dealing with others. The third function of privacy is to clarify self-identity. The factors that influence privacy are divided into three, namely, personal factors, situational factors, cultural factors.

B. Method

The participatory design method, after the theoretical approach and precedent study, uses the users' everyday life method modules to analyze the observations [4]. To observe and record details of the user's daily life, here are five ways, namely, move in, experience everyday locations, observe rituals, share favorite locations, journeys of discovery. To observe and record in detail the various events in a setting, the method chosen, namely the technique of observing rituals [4] contains Observe all events and activities (their behavior towards a setting) within a specific time (when calm, busy, listening, doing, chatting, etc.), Organize the photos taken and adjust the spatial quality and time, Give an explanation that represents the atmosphere that was captured.

Observation, or somewhat routine monitoring and documentation of users (users), forms the second relevant category of module methods for the participatory design process. One option, for example, is to accompany users in their daily lives and to record different events to conclude concerning architecture. This observation may require the long-term monitoring of a group to get more specific and reliable results about their personal preferences. Another method is to not only accompany or interview users but also invite them to reflect on their daily lives, by presenting and documenting their location. That is because if attending and observing users in an environment, they do not know can ignore typical daily behavior. The purpose of observing the user's daily life is to study their daily environment. Findings from observations are integrated into design work and, at the same time, form the basis of further communication between architects and users. Exploration from observations of the

user's daily life helps eliminate stereotypes on both sides. In any case, this presents an expansion of designer knowledge.

III. RESULT AND DISCUSSION

Choosing to use the observe rituals method, that is, seeing movement and performance (Table 1, Table 2) when teaching and learning activities last for 120 minutes (Figure 2, Figure 3, Figure 4, Figure 5, Figure 6, Figure 7). Observation results from the movement with the observe rituals method (Table 3): Observation results from the performance and practice room with the observe rituals method (Table 4):

IV. CONCLUSION

The design criteria obtained from the search for criteria for street children learning spaces with the observe ritual method using the perception of privacy approach are summarized as follows: (1) Moveable: Requires area that is easily accessible between one room and another, requires space with a more straightforward but still dynamic sequence; (2) Active: Requires circulation that does not confuse children; (3) Open: Requires an area that is used as a special place for interludes other than the main room; (4) Theatrical: Requires space for

the development of children's skills, requires space to stimulate children's thoughts and motor skills that are visually connected, requires interactive and communicative space with children, with architectural elements as the medium; (5) Excited: Requires space with visualization related to the play of colors and numbers, requires a gathering space that children use for proper socializing.

V. ACKNOWLEDGMENT

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