

Effect of Improved Interior on Children's Prospatial Behavior

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I. Introduction

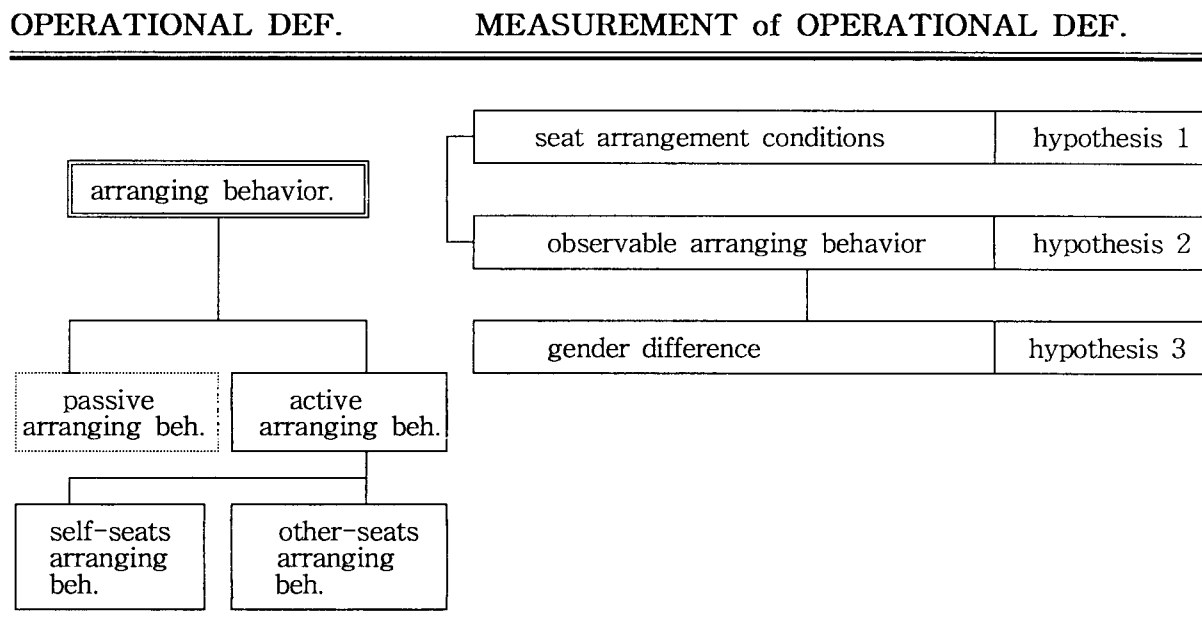
1. Research Purpose

The purpose of this study is to determine the effect of pleasantly designed interior on Pro-spatial behavior. There are three hypothesis on this. The pleasant interior will increase, the ratio of arranged seat of dining room, will increase the ratio of children showing observable

arranging behavior. Lastly, the behavior will be different between male and female children.

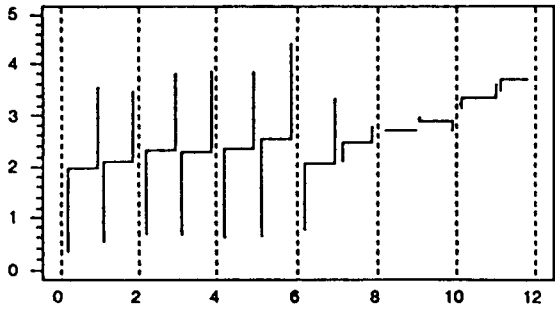
2. Operational definition

Pro-spatial behavior is an operationalized seat arrangement behavior which can be measured by an arranged condition and observable arranging behavior.



----- sign indicates exclusive part of this research, which was impossible to observe through an unobtrusive method.

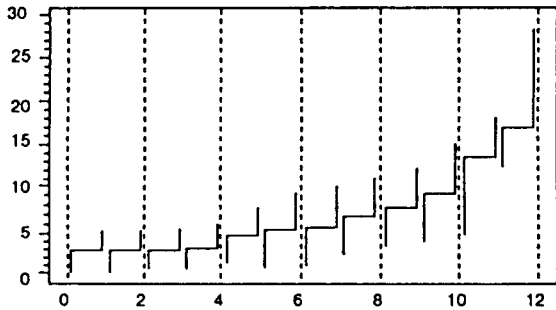
(Fig. 1) Conception Framework of This Study



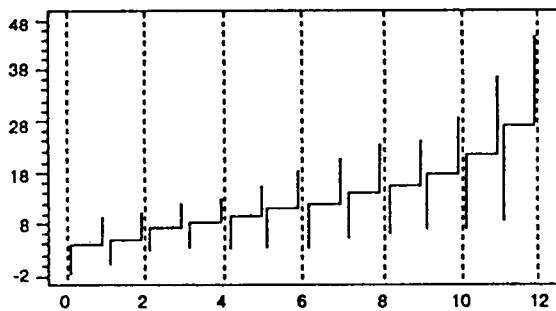
(Graph 5)The Trend of the Ratio of Arranged other –Seats:Seasonal Subseries Plot

3. Gender Differences on the Changes of Observable Arranging Behavior

Self-centered Pro-spatial Behavior: The ratio of arranged self seats in both male and female gradually increased after the environmental treatment (Graph 6 and Graph 7)

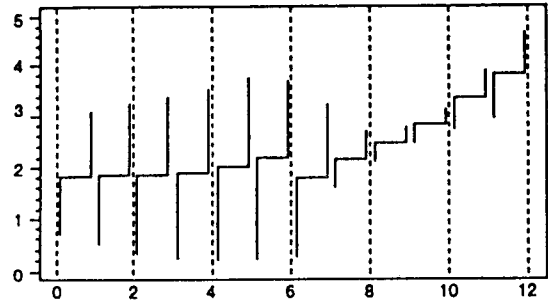


(Graph 6)The Trend of Ratio of Arranged Self –Seats:Seasonal Subseries Plot –Male

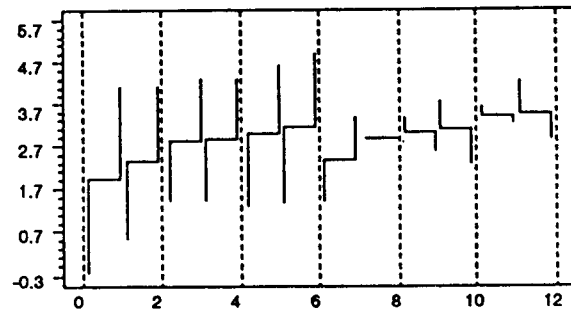


(Graph 7)The Trend of the Ratio of Arranged Self –Seats:Seasonal Subseries Plot –Female

Altruistic Pro-spatial Behavior: The ratio of arranged other seats in both male and female rapidly increased. However, as time passed, it decreased (Graph 8 and Graph 9).



(Graph 8)The Trend of the Ratio of Arranged other –Seats:Seasonal Subseries Plot –Male



(Graph 9)The Trend of the Ratio of Arranged other –Seats:Seasonal Subseries Plot –Female

IV. Conclusions

The pleasantly designed environment has long term effects on the pro-spatial behavioral changes. While self-centered pro-spatial behavior improved continuously and even reinforced, altruistic pro-spatial behavior improved but decreased as time passed. The effects were regardless of gender differences.

The results of the study provide scientific background of answer to why the pleasantness of interior space is important.