

Retracing Spatial Design Processes

Master of Design Thesis Defense

Firdous Nizar

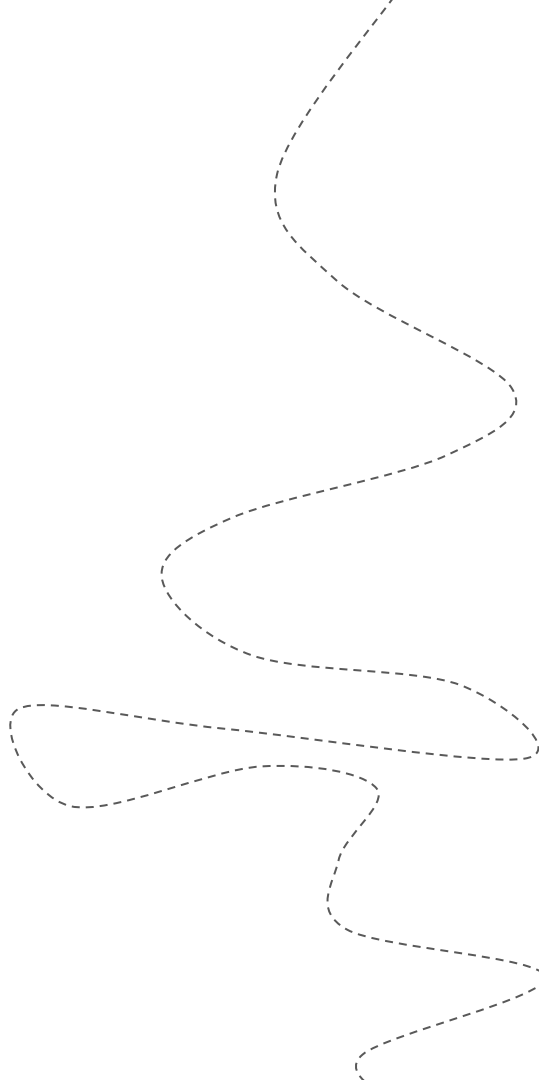


Retracing Spatial Design Processes

retrace (v.)

1690s, from French *retracer* "to trace again," from *re-* "again" + *tracier* "to trace".

To trace (something) back to its source or beginning
"I wanted to retrace a particular evolutionary pathway"



Drafting

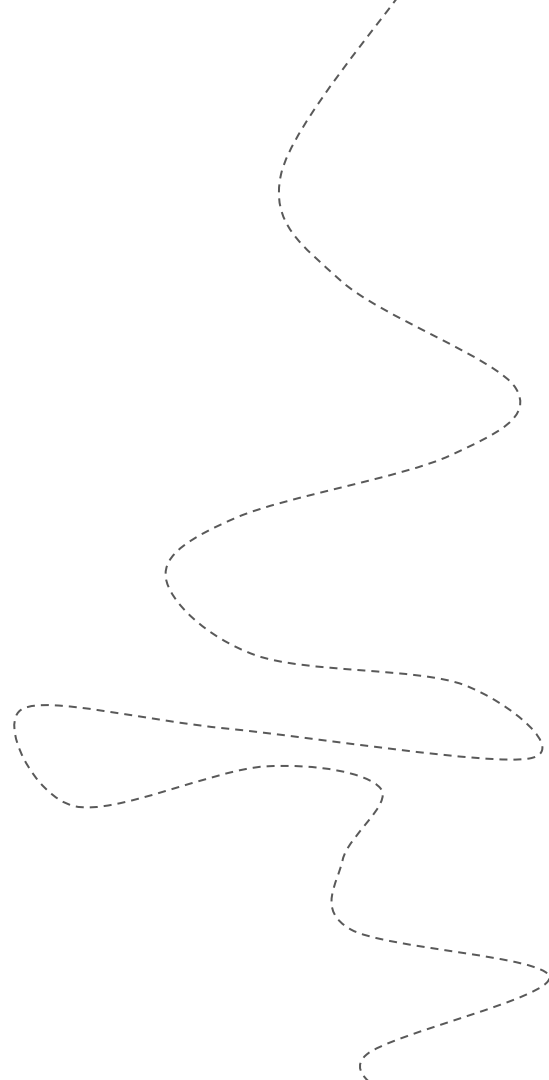
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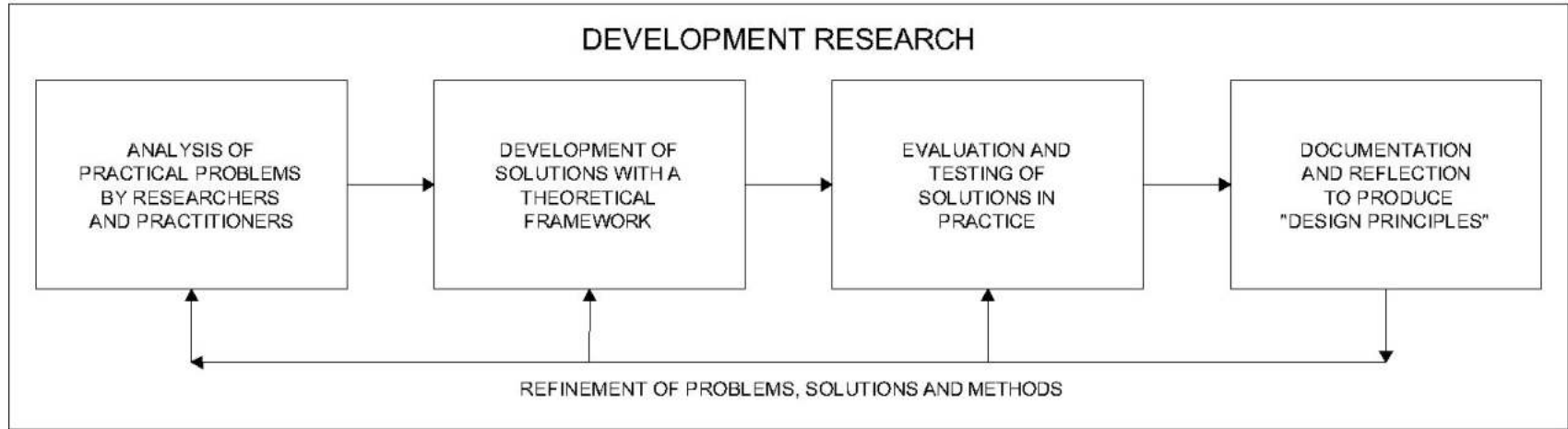


NOW



*How does digital design tools
in architecture education help students
trace, reflect and **collaborate**
during the design of spaces?*





informed and planned
“trial and error”



*“...this "virtuous circle" depends on the capacity of (the) student and studio master to communicate effectively with each other, in spite of the potential for vagueness, ambiguity, or obscurity inherent in the things about which they try to communicate”
(Schön, 1987).*



Development research
as informed and planned
“trial and error”

trial #1

trial #2

trial #3

trial #4



trial #1

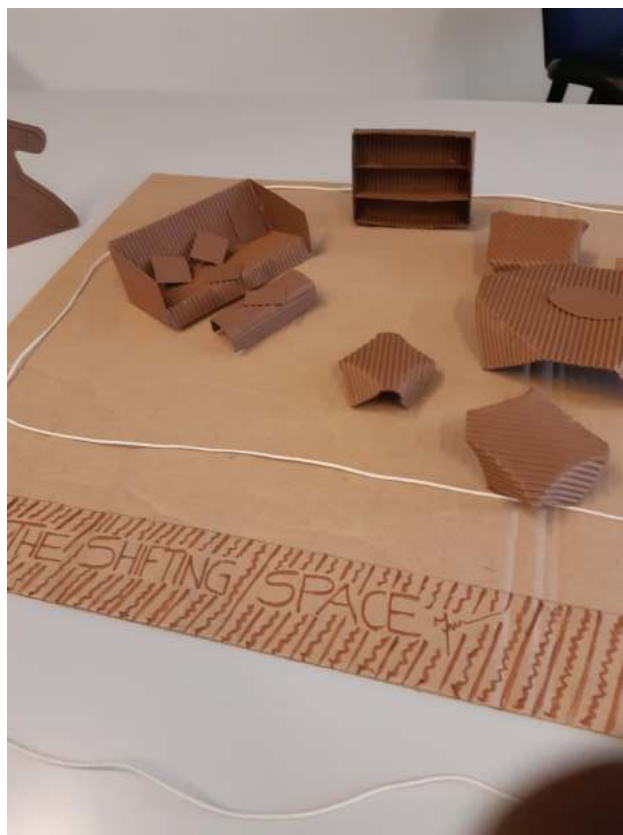
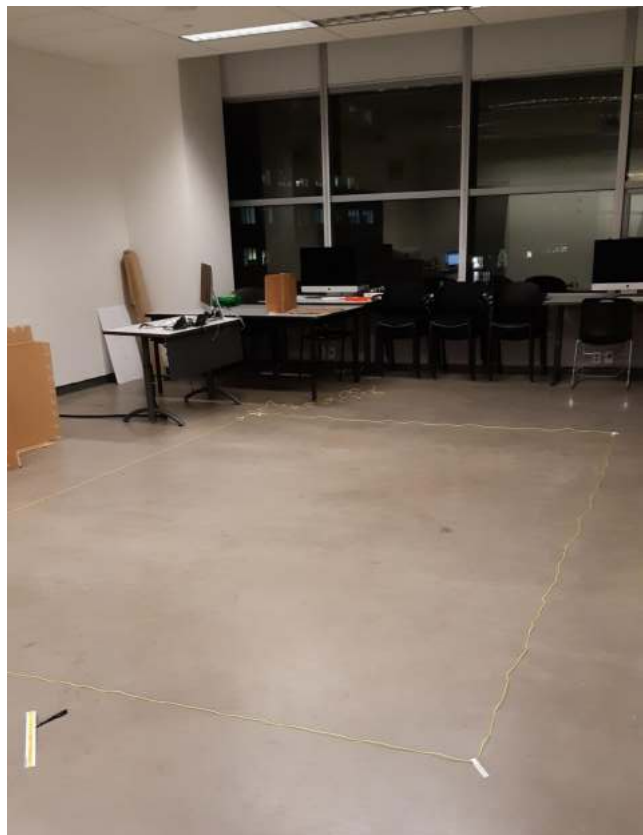
THE SHIFTING SPACE

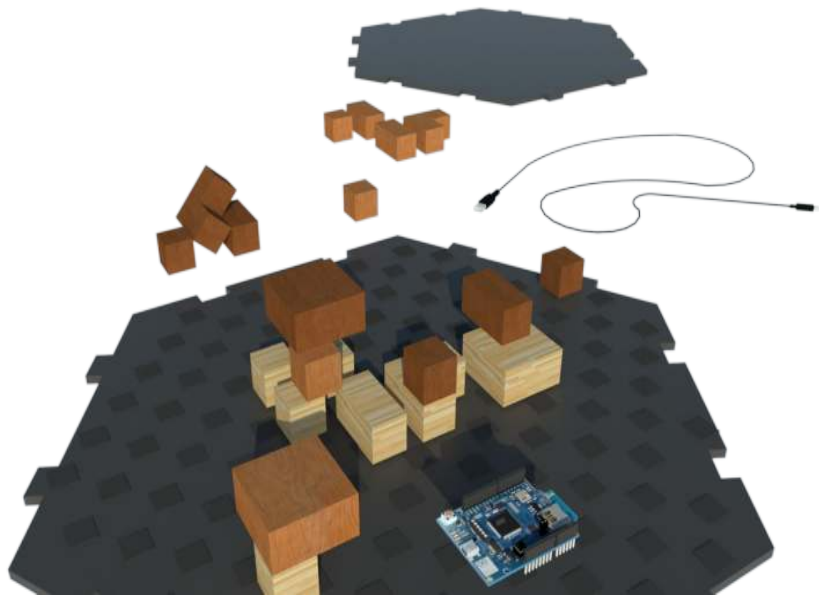
*Does the tactility of furniture act as a design tool
for humans to dynamically interact and shift the
boundaries of their lived spaces?*

trial #2

trial #3

trial #4





trial #1

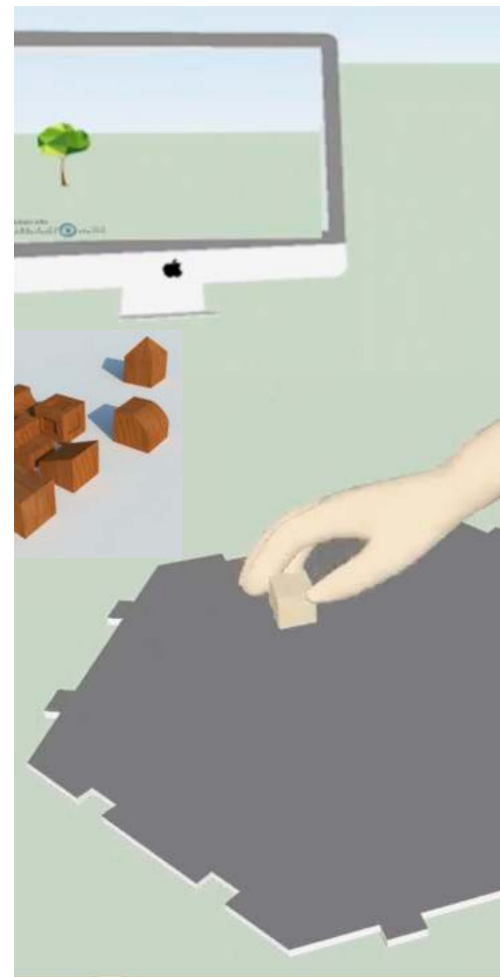
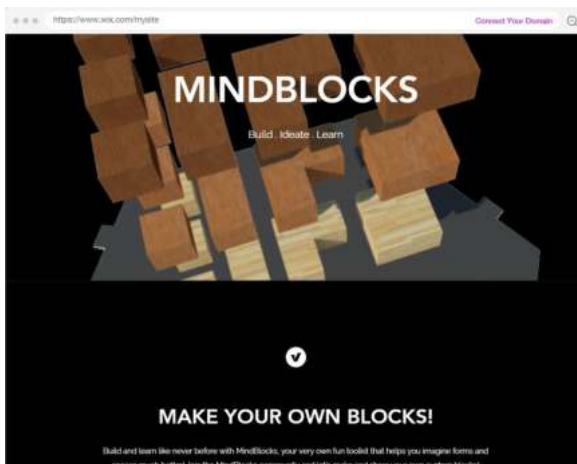
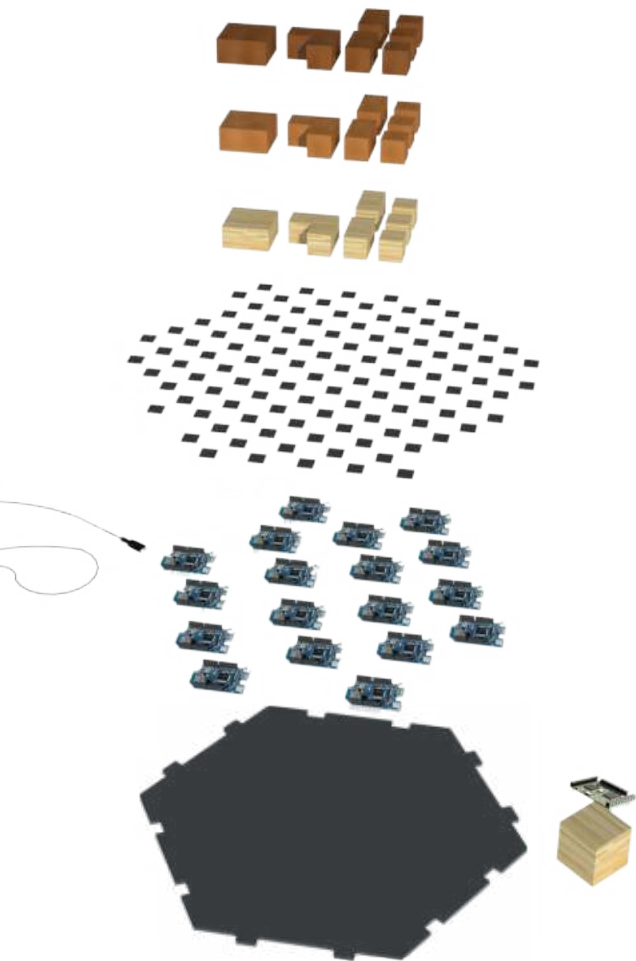
trial #2

MINDBLOCKS v1

*Does building blocks as interactive design tools
facilitate communication between architects and
clients during the design process?*

trial #3

trial #4





trial #1

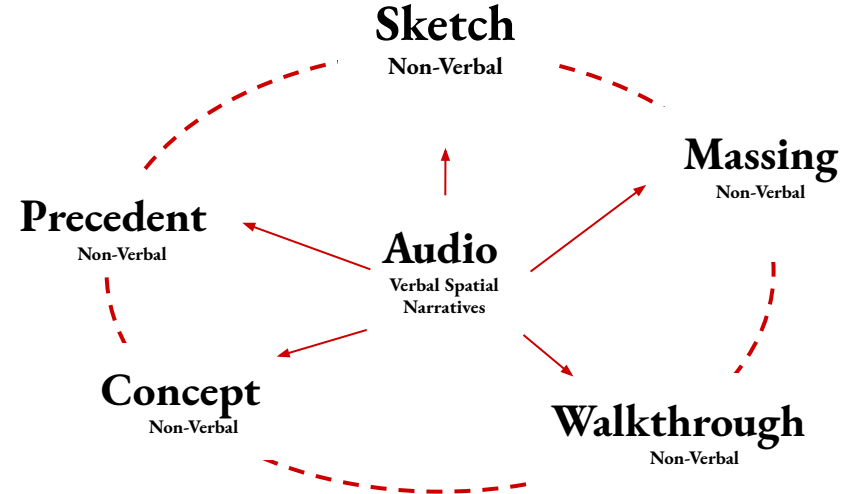
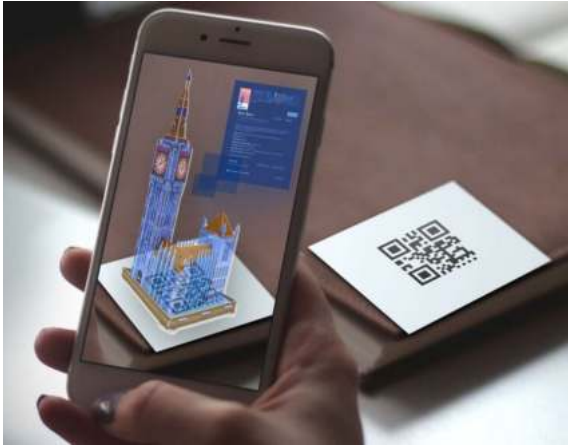
trial #2

trial #3

MINDBLOCKS v2

*Can Augmented Reality tools enable digital design
in architecture while still being tangible modes of
verbal and non-verbal design in architecture?*

trial #4





trial #1

trial #2

trial #3

trial #4

RETRACER

How does digital design tools in architecture education help students trace, reflect and collaborate during the design of spaces?





user feedback





more
trial and error

MDES
THESIS
DEFENSE

17 AUGUST
120mins

① Brief Introduction 3'
+
TITLE: 'Retracing Spatial Design Processes'

② Main Research QUESTION:
How does dynamic documentation and tracing of the evolutions of design proposals promote design reflection and collaboration in students and novice practitioners during architecture studios?

YES | NO:
• proof of concept easier communication
• demo on actual device brings clarity & functionality

should there be a LIVE demo of Retracer?

④ Communication + Collaboration in ARCHITECTURE Education

(a) Roleplay comic between [student and instructor] in a design studio [current scenario] (could include comparisons or anecdotes of real-world practice)

(b) Key quotes from Schön, Ingold, Pollakmaa (and/or).

How does digital design tools in architecture studio pedagogy help students trace/reflect and collaborate during the design process? (of given)

TOO LONG >>

③ METHODOLOGY: 3'

Development Research (van den Akker, 2005)

<< explain briefly with diagrams >>

⑤ Iteration 1: The SHIFTING Space

⑥ Iteration 2: MindBlocks v1

⑦ Iteration 3: MindBlocks v2

⑧ Iteration 4: Retracer

□ Option 1: explain directly with [ON THE] LIVE demo of tool [iPAd]

key frames (BEFORE | AFTER)

+ survey questions & responses

□ Option 2: brief roleplay comic w/ Sasha, Aang & Hari

video clippings of key features & workflow (merge survey findings in the dialogues?)

□ Option 3: #

⑥ Future of [Retracer] in Architecture Pedagogy 2'
// 3 points + quote //

* POSSIBLE QUESTIONS (make supplementary slides)

CC

MIR

MW

The whole presentation in the form of a play?