A Transparent Numeric Portable Map

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Sorbonne Université – Master ANDROIDE - IHM   31/03/2021

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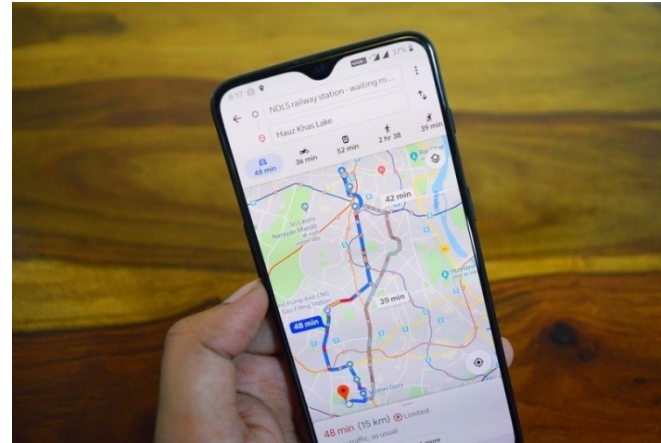# Introduction

Context: the usages of map in modern society

Framework: utterly dominated by Google Map

User based Problem:
- <u>Numeric map</u>: battery dependent, small screen

- <u>Paper map</u>: to fragile, bulky

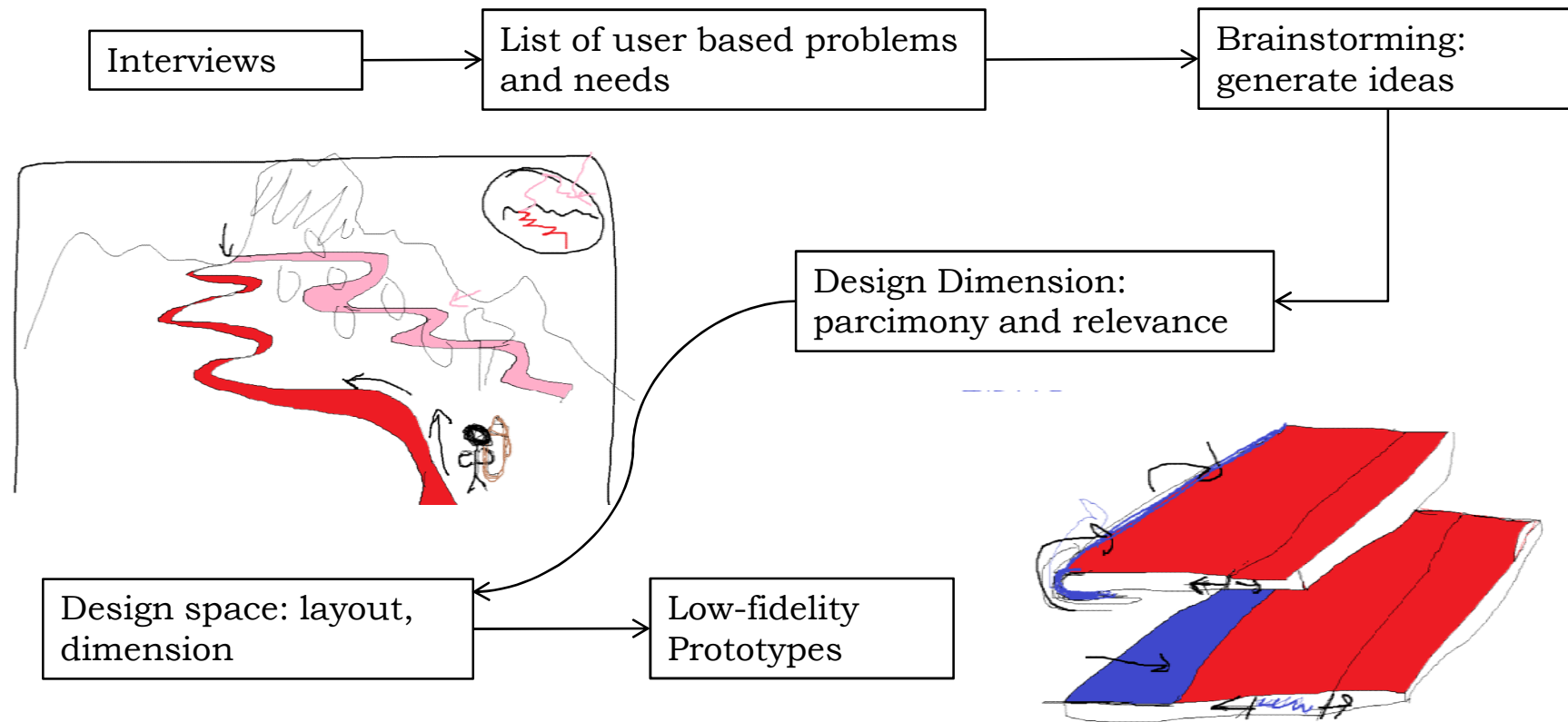- <u>Common</u>: badly relate to surroundings, namely in wilderness

Objectives: combined advantages of numerical and paper maps in one device

VS ?

Design process

Interviews → List of user based problems and needs → Brainstorming: generate ideas

Design Dimension: parcimony and relevance

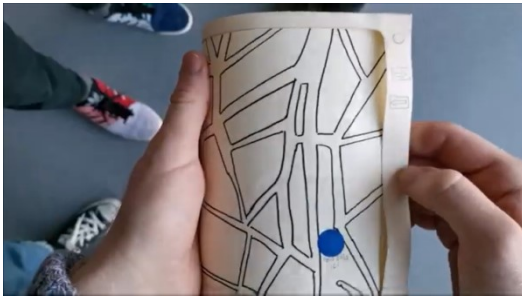Design space: layout, dimension → Low-fidelity Prototypes

Direction: How many of the identified problems can we address within our system while guaranteeing parcimony and usability
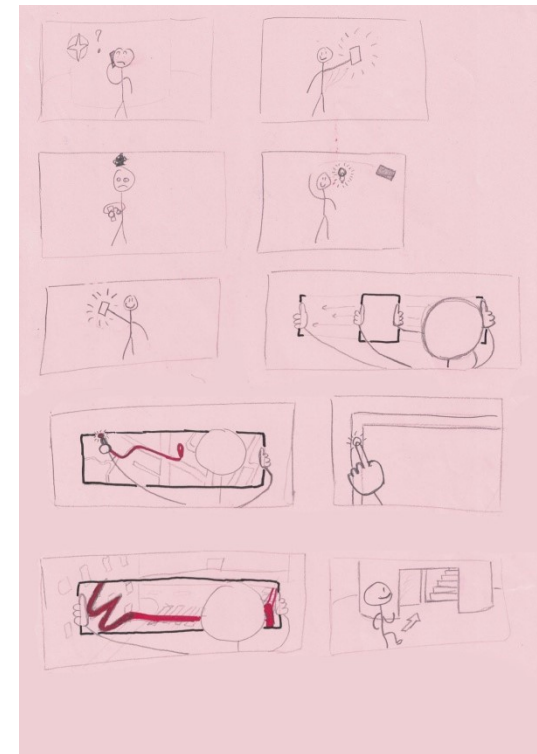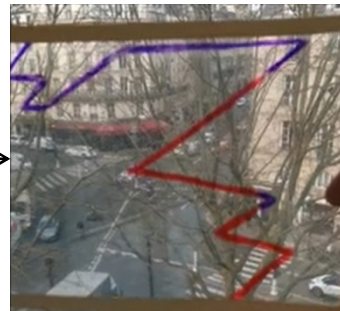
Final Prototype 1

2 key features

1. Expandable numeric device
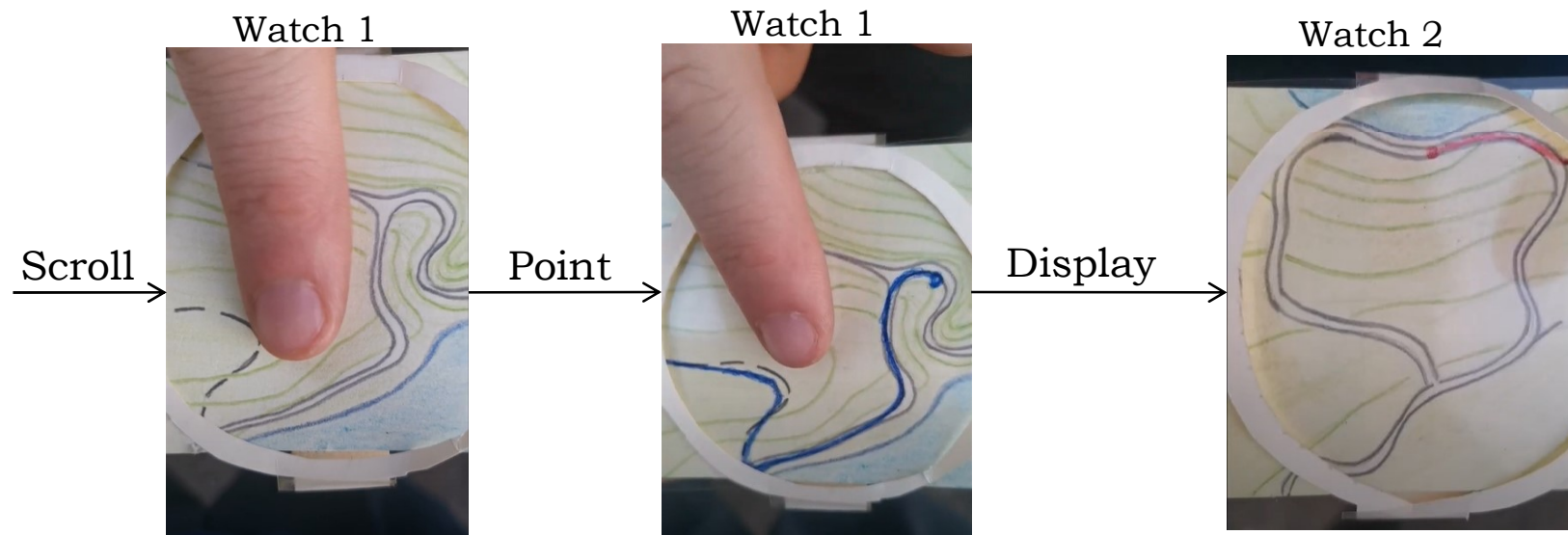

2. Transparent or plain mode

Final Prototype 2

Goes by pair with the first device

https://www.youtube.com/watch?v=p3hN1eKSE2I

Key feature: team connectivity

Watch 1 → Scroll → Watch 1 → Point → Display → Watch 2

Conclusion and After Words

What we learn:

1. Decisiveness of beforehand interviews

2. Difficulty to build a good prototype

3. Time management and rigour

Future Work:

1. Higher fidelity prototypes, role-playing

2. Better establish relation watch/map

3. Rotating compass watch

Team Management

Interviews: D. Marrillet, M. Benabid, M.Lechapelier, B.Musquer

Brainstorming: D. Marrillet, M. Benabid, M.Lechapelier, B.Musquer

Design Dimension & Design Space: D. Marrillet, M. Benabid, M.Lechapelier, B.Musquer

Prototype 1 Creation: B.Musquer, M. Benabid

Prototype 2 Creation: M.Lechapelier

Acting: D. Marrillet, G.Lechapelier, M.Lechapelier

Cameraman: M.Lechapelier

Video editor: M.Lechapelier

Blog: M. Benabid

Slides: B.Musquer

Acknowledgment: Gaston Lechapelier, Guillaume Peugnet