

DESIGN THINKING WORKSHOP

Welcome.

6th Hellenic Forum for Science, Technology
and Innovation
Athens, July 13th 2018



ABOUT ME



LONDON
SCHOOL of
HYGIENE
& TROPICAL
MEDICINE



DFG

Deutsche
Forschungsgemeinschaft





It's a pleasure to be here!
Thank you for having me!



NATIONAL CENTRE FOR
SCIENTIFIC RESEARCH "DEMOKRITOS"



DESIGN THINKING

DESIGN THINKING - INTRODUCTION

How would you design a child's tooth brush?



DESIGN THINKING - INTRODUCTION

You would most likely
jump straight into
ideation!



DESIGN THINKING - INTRODUCTION

Until we used 'design thinking' we forgot that children are not just scaled down versions of ourselves

– they have chubby little fingers and less dexterity...!



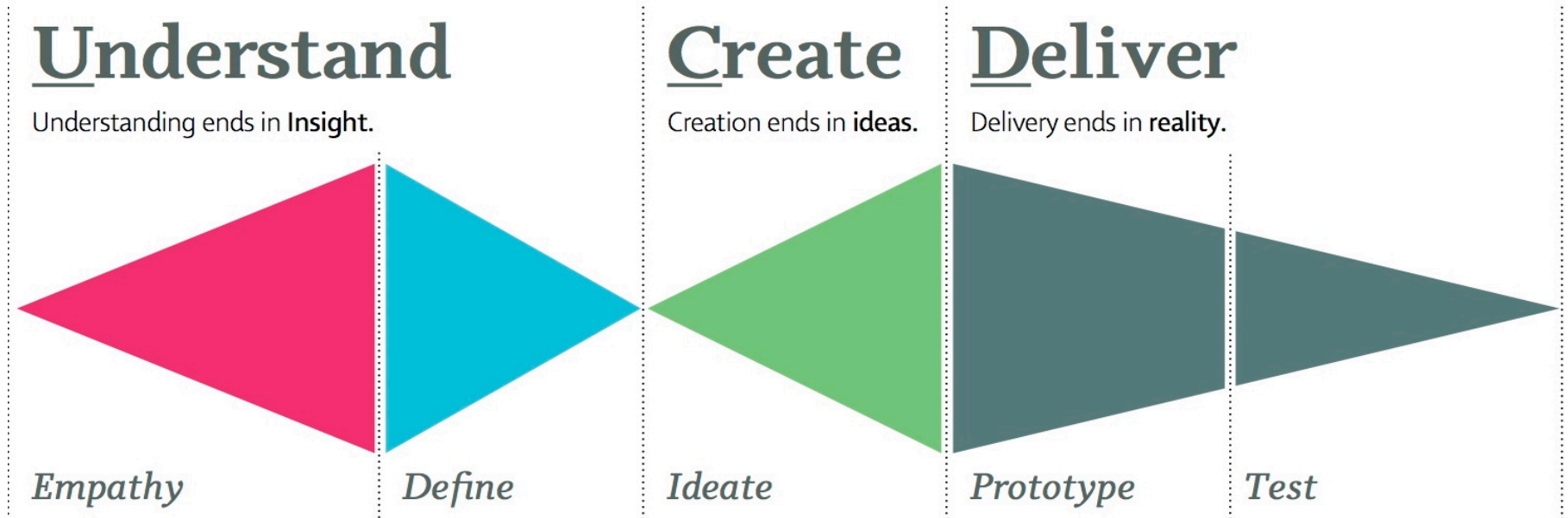
ENTER DESIGN-THINKING

With **design thinking**, instead of starting with 'ideation', you begin with the processes of 'empathy' and 'defining'.

Together, these are intended to give you a **better understanding** of the user and their needs before thinking of possible solutions.

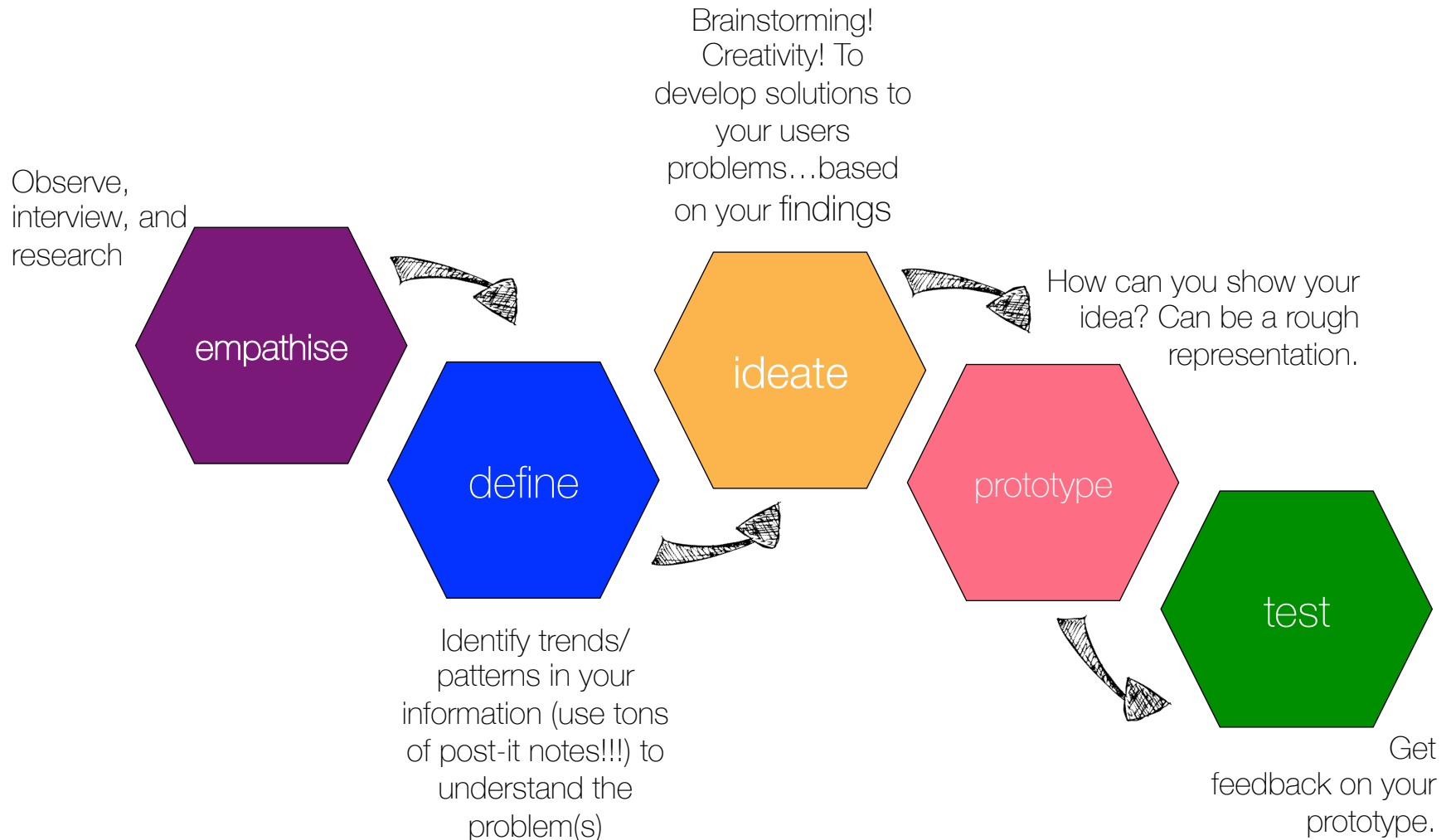
DESIGN-THINKING

Understand first, ideate later (for better products or services!)



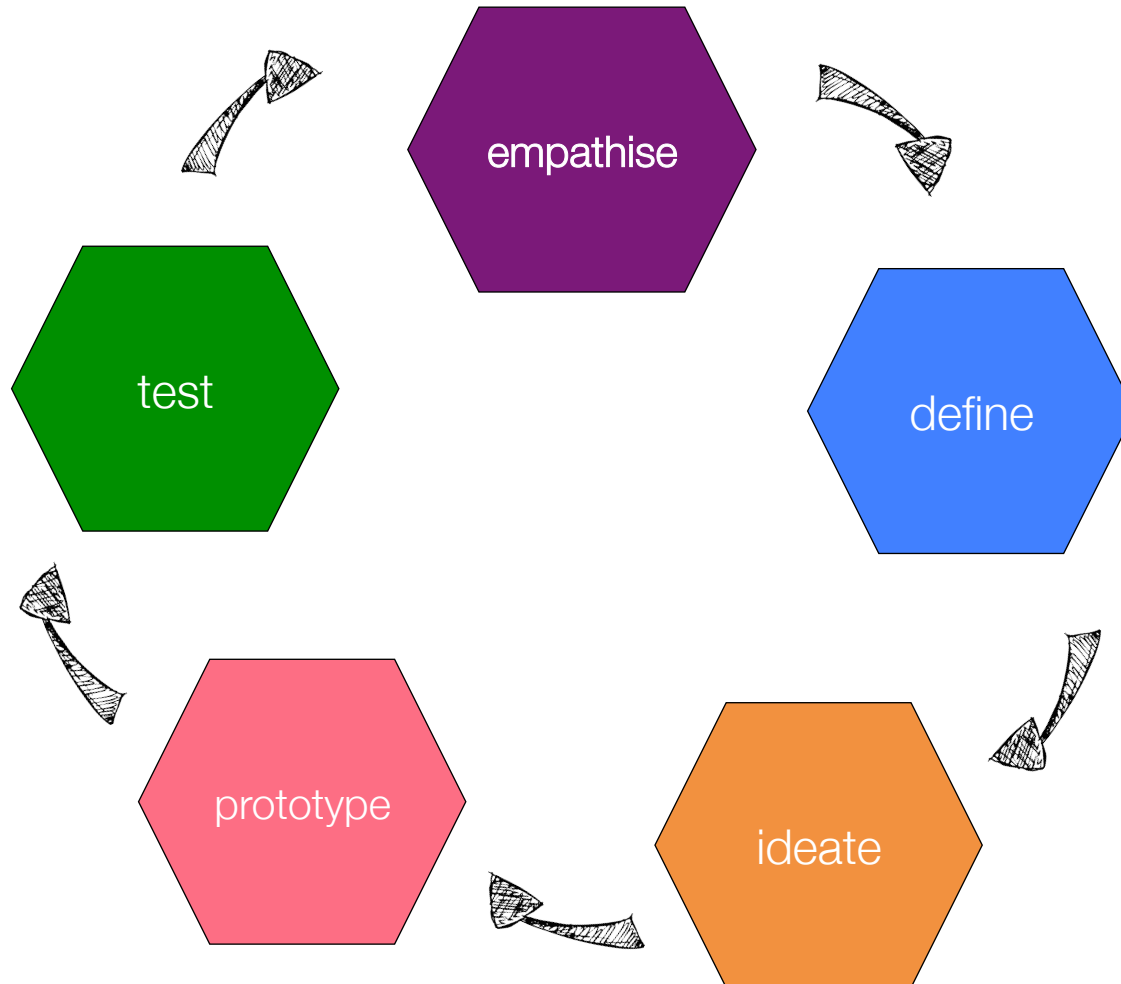
DESIGN-THINKING

There are 5 stages of the design-thinking process



DESIGN-THINKING

Based on feedback, you'll likely have to start the process over. So - in reality, design thinking is cyclical.



DESIGN-THINKING - DEFINITION

Design-Thinking is a framework that can be used to **solve problems**. Its structured approach provides a methodology for developing solutions that **meet the needs** of those we are designing them for.

DESIGN THINKING IS A TOOL

For products or services or processes
or life!



Learning by doing
Your challenge for today...

DESIGN-THINKING – YOUR CHALLENGE



Design the perfect luggage



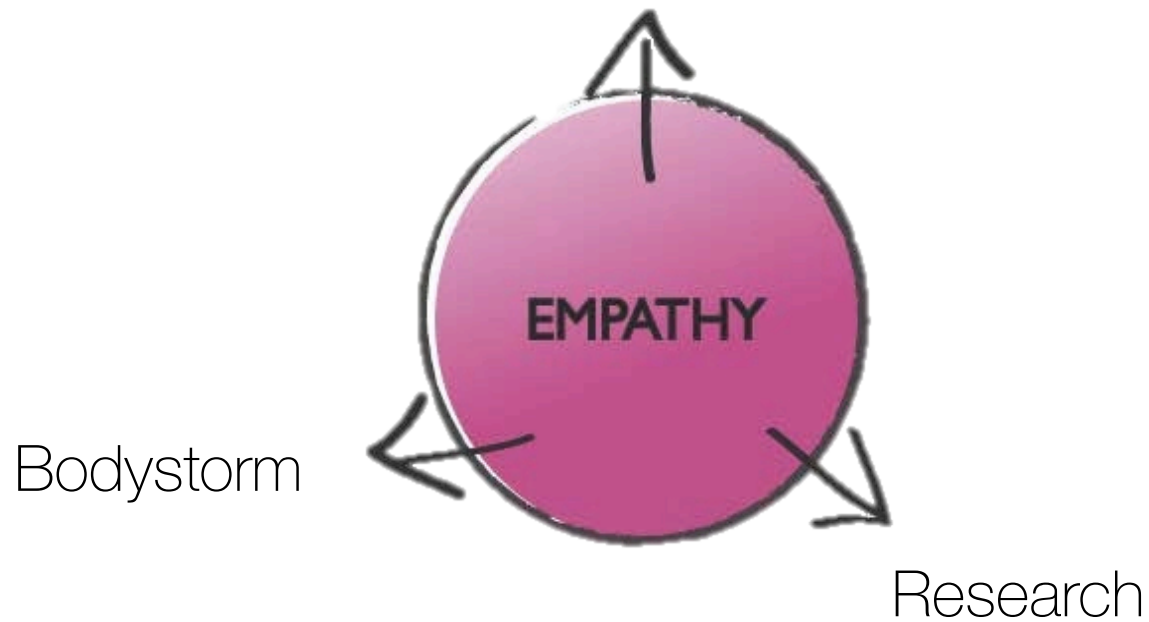
YOUR APPROACH

Explore the problem(s)



DESIGN-THINKING - EMPATHY

Observation & Listening



DESIGN-THINKING



SEEING and OBSERVING: What's the difference?

"When I hear you give your reasons," I remarked, "the thing always appears to me to be so ridiculously simple that I could easily do it myself, though at each successive instance of your reasoning, I am baffled until you explain your process. **And yet I believe that my eyes are as good as yours.**"

"Quite so," he answered, lighting a cigarette, and throwing himself down into an armchair. "You see, but you do not observe. The distinction is clear. For example, you have frequently seen the steps which lead up from the hall to this room."

"Frequently."

"How often?"

"Well, some hundreds of times."

"Then how many are there?"

"How many? I don't know."

"Quite so! You have not observed. And yet you have seen. That is just my point. Now, I know that there are seventeen steps, **because I have both seen and observed.**"

DESIGN-THINKING

Understanding - what makes empathy difficult?



“WE DON'T SEE THINGS AS THEY ARE, WE SEE THEM AS WE ARE.”

ANAIS NIN

© Lifehack Quotes

Observation vs assumption

- Take photos, draw things, write notes.
- Use 'stealth-mode' to observe behavior.
- Record what you see, not your interpretation of what you see

DESIGN-THINKING



Capture...(notes + photos)

Notes, drawings, photos,...whatever you can show your team.

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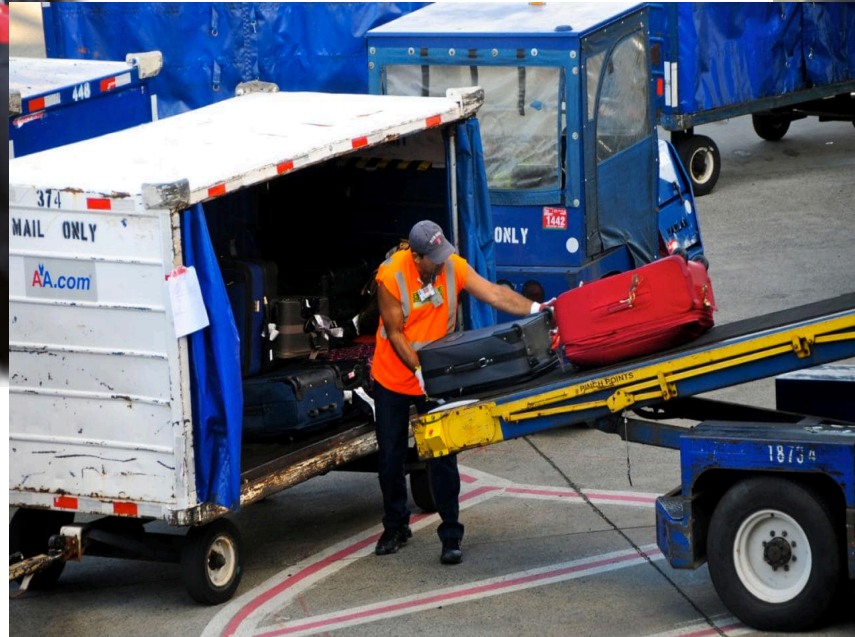
Talk to people

DESIGN-THINKING



Talk to many

DESIGN-THINKING



In different situations

DESIGN-THINKING

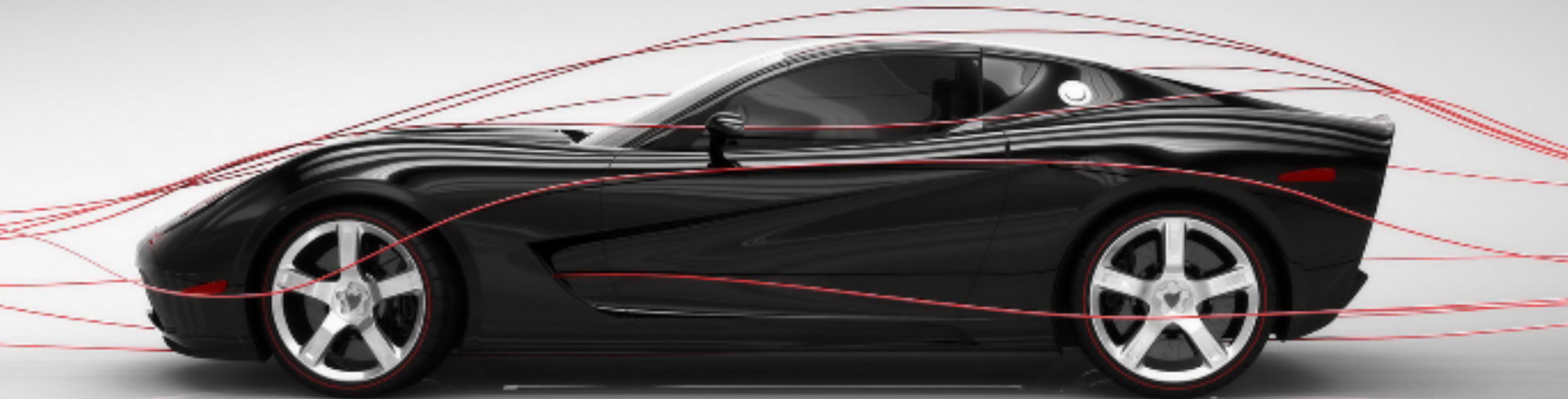


Capture diversity

What do people really
think and feel?



Why?



**“If I had asked people what they wanted, they would have said faster horses.”
- Henry Ford**

Open questions
will reveal more

Conversations and
observations provide
insight

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Bodystorming

Bodystorming: What is it?

- Direct personal experience with object
- Role play
- Simulation

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Bodystorming

Let's Experience Design
Thinking...

DESIGN-THINKING – YOUR CHALLENGE



Design the perfect luggage



DESIGN-THINKING



Who is it for?
Put the user first

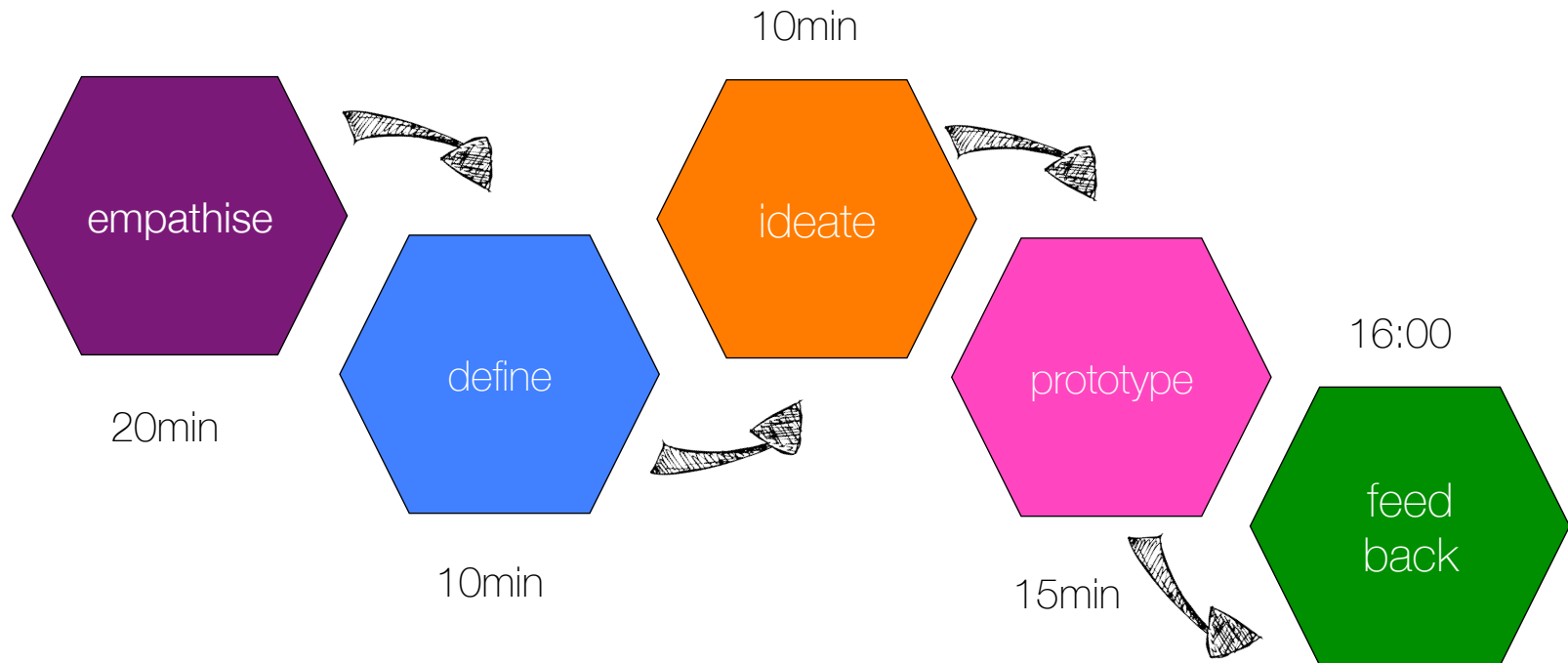
DESIGN-THINKING



Needs...?

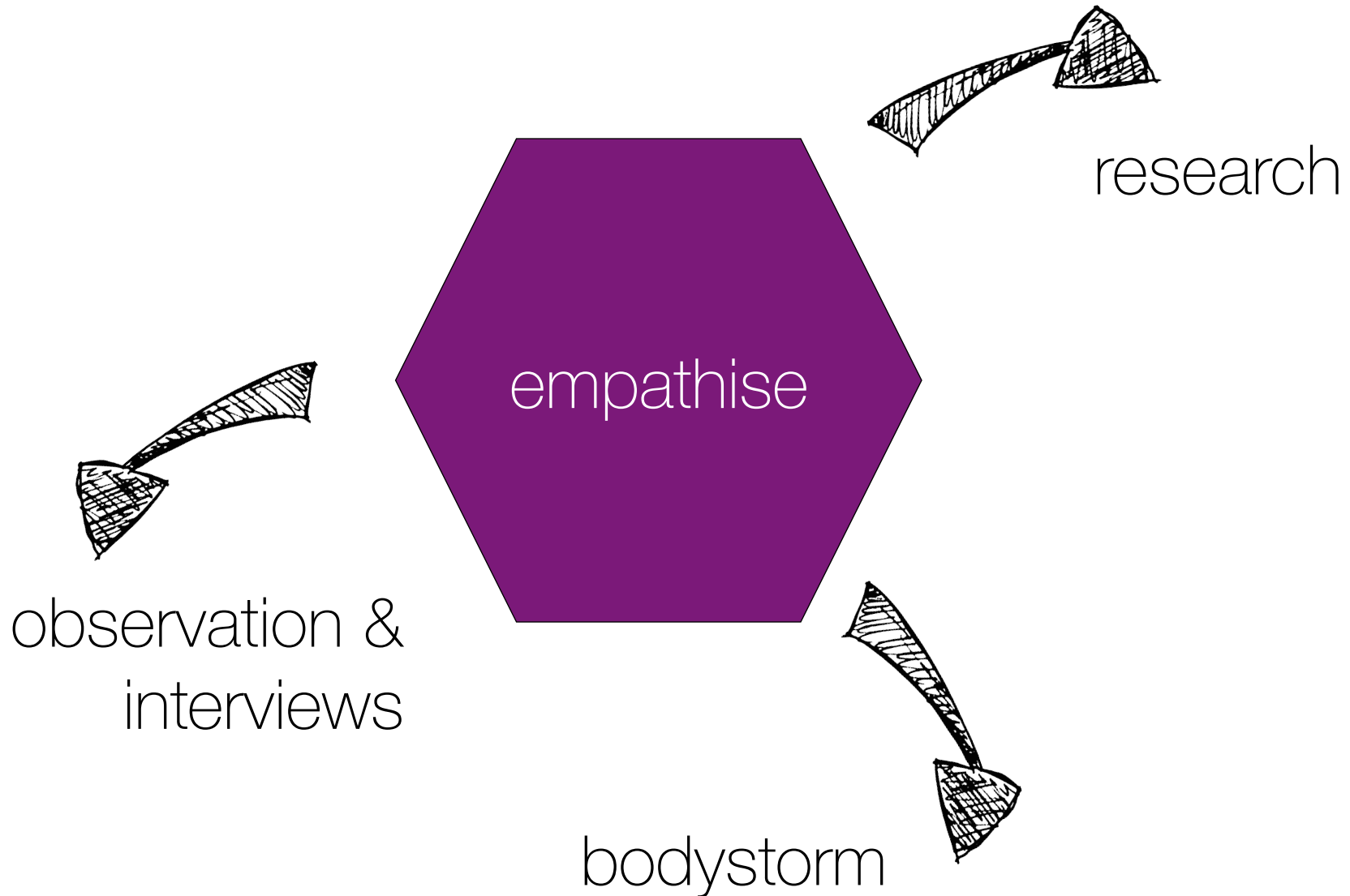
What problem can you solve for them?

SCHEDULE – “Times no later than”



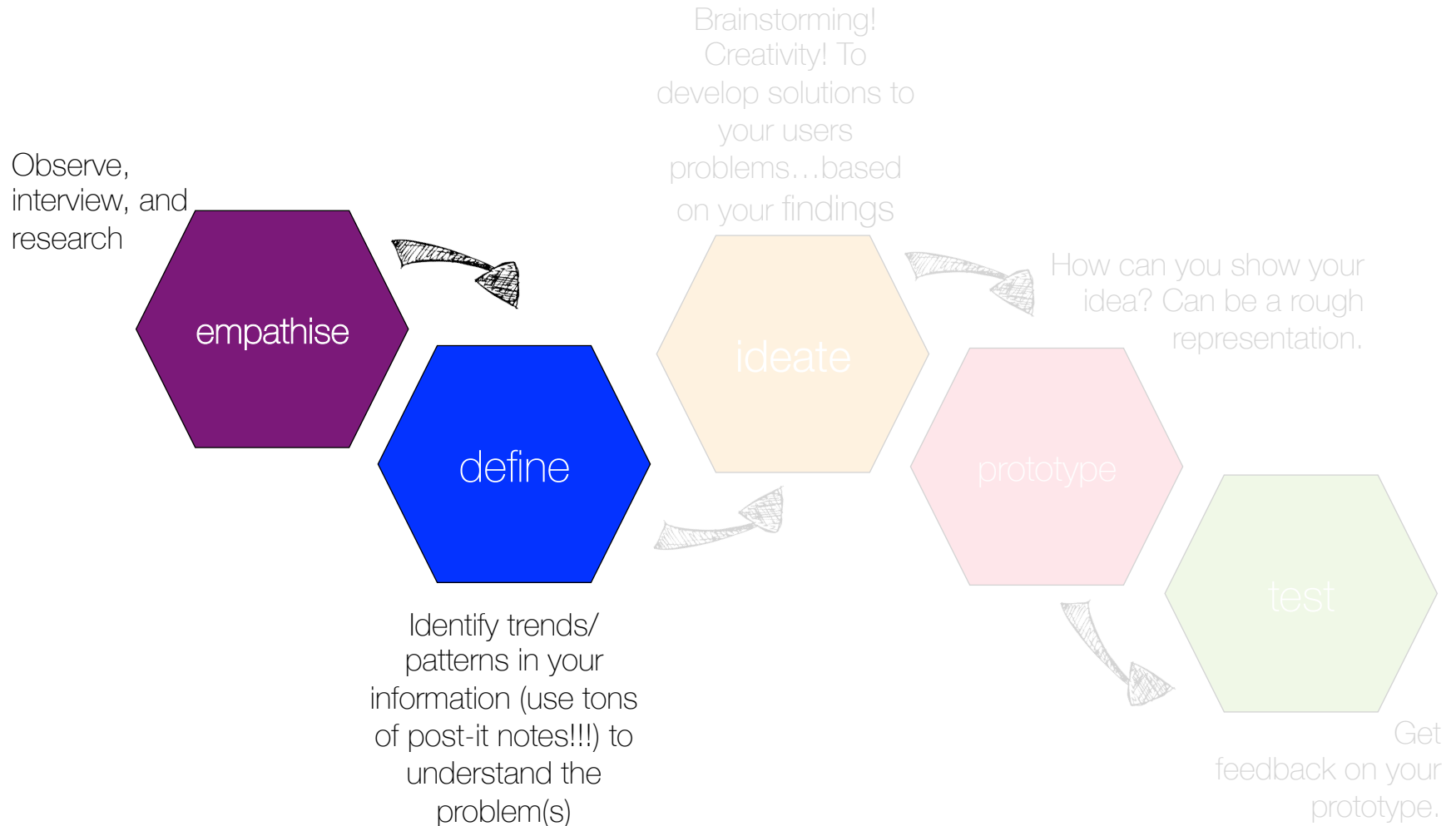
Present at 16:00 (1 minute pitches)

DESIGN-THINKING – 20min for Empathy



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5 stages of the design-thinking process



DESIGN-THINKING



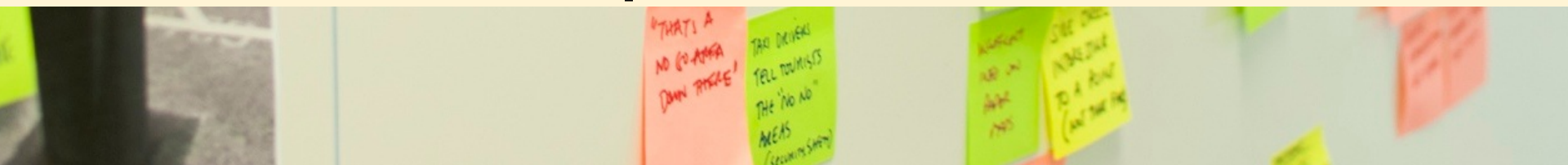
Sharing - what information
have we got? Put on post-its!
One observation per note!



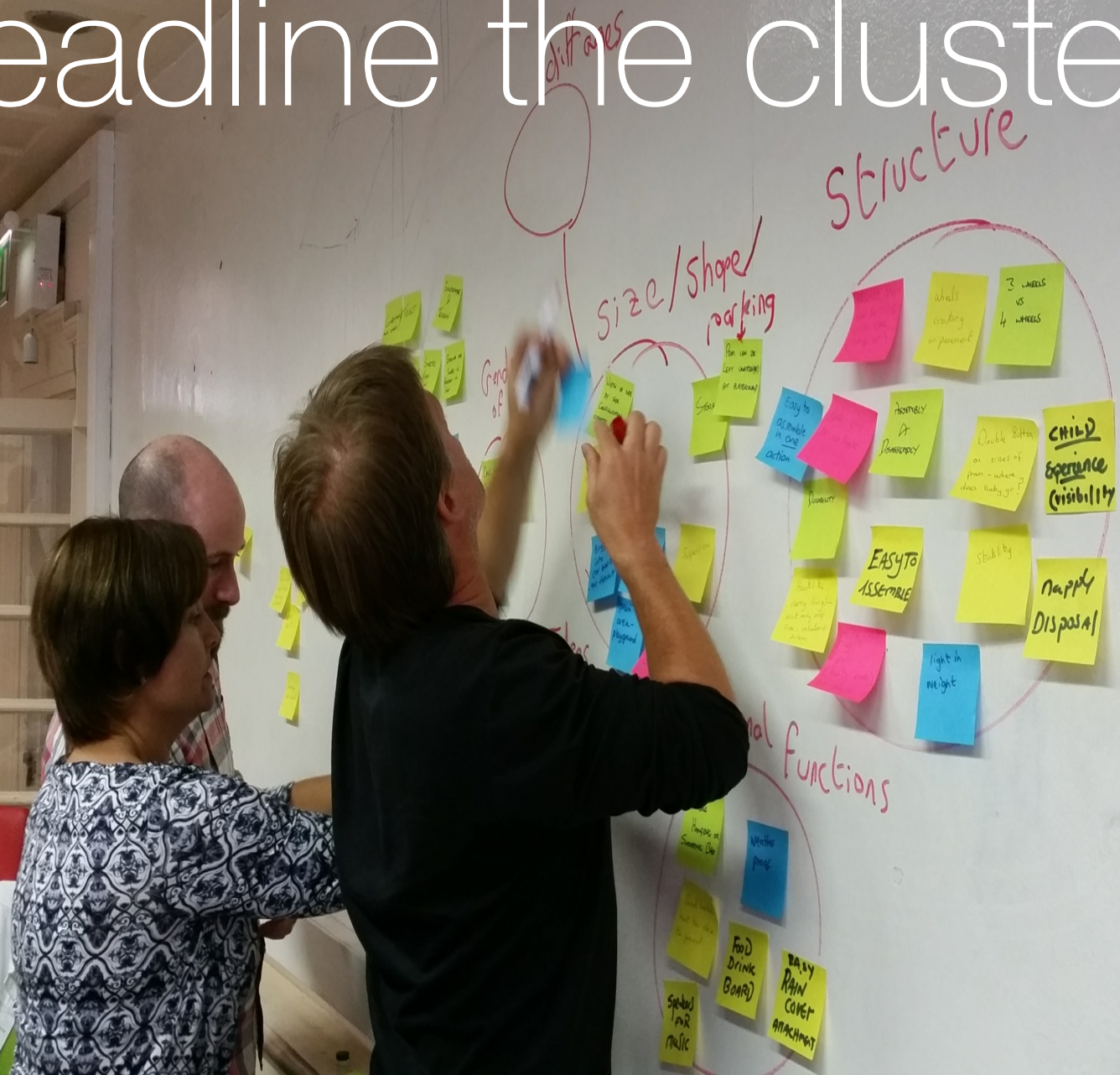
As many as possible
go for >50!



Find patterns



Headline the clusters



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Sharing & space
saturation

Find patterns, cluster, & headline

Identify your user &
define the problem

Make sure you are
focusing on your user
and define the
problem.

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People don't want to buy a quarter-inch **drill**.

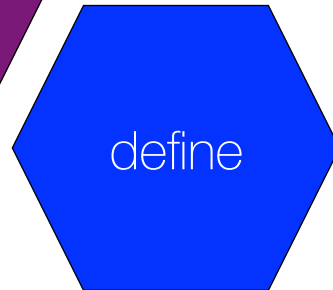
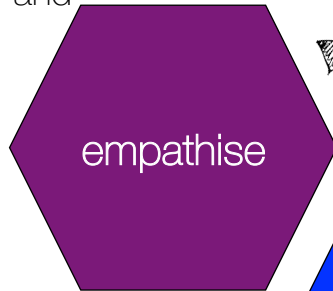
They want a quarter-inch **hole**.



[USER] needs a better/
cheaper/more convenient
way to [DO SOMETHING]
because [PROBLEM].

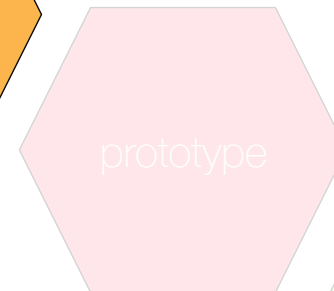
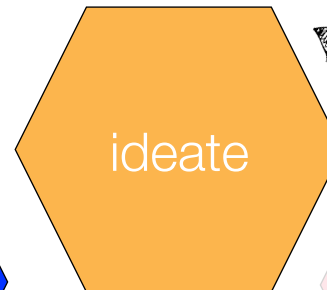
DESIGN-THINKING

Observe,
interview, and
research

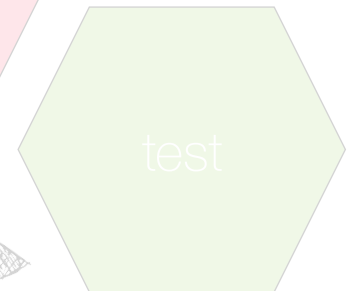


Identify trends/
patterns in your
information (use tons
of post-it notes!!!) to
understand the
problem(s)

Brainstorming!
Creativity! To
develop solutions to
your users
problems...based
on your findings



How can you show your
idea? Can be a rough
representation.



Get
feedback on your
prototype.



Ideation

- Select one problem to focus on
- It doesn't need to be the perfect for everyone – solving one problem for one group is great



Ideation

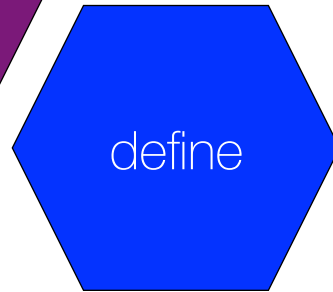
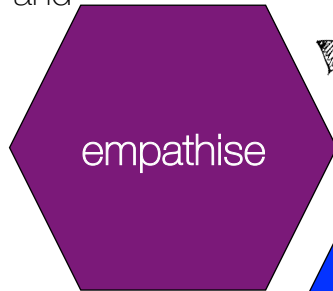
- One idea per post-it
- Refer to insights you've gained
- Defer judgment – no bad ideas!
- Go for volume
- Encourage wild ideas
- Build on the ideas of others

Vote on the idea you want to present



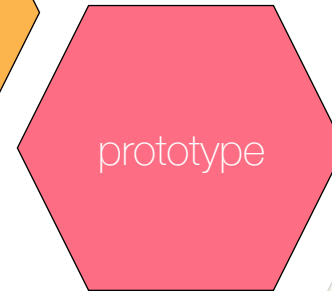
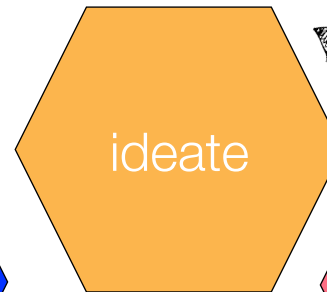
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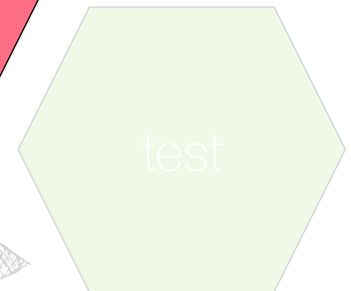


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Brainstorming!
Creativity! To
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DESIGN-THINKING – What is a prototype?

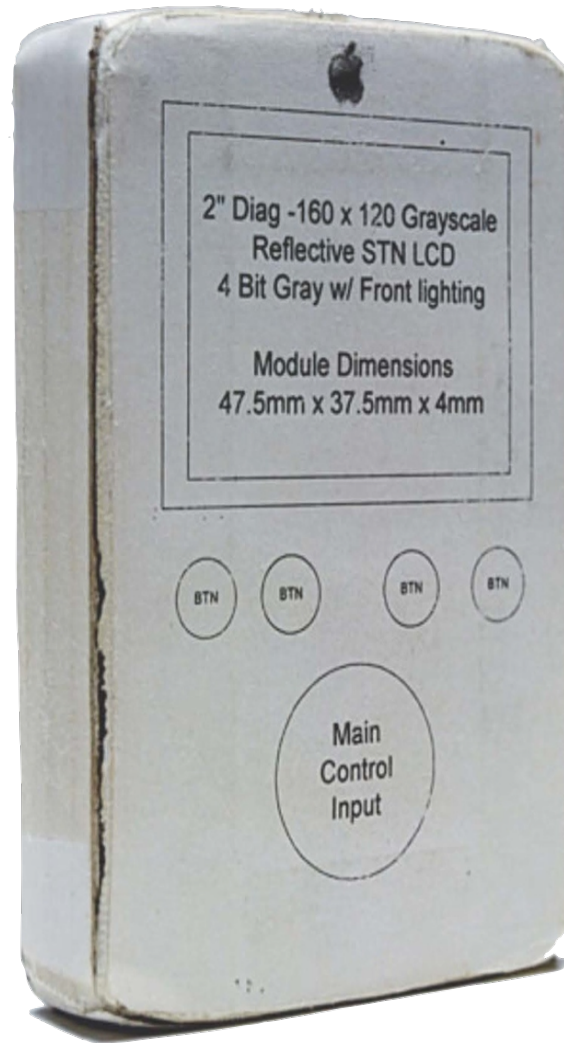


DESIGN-THINKING

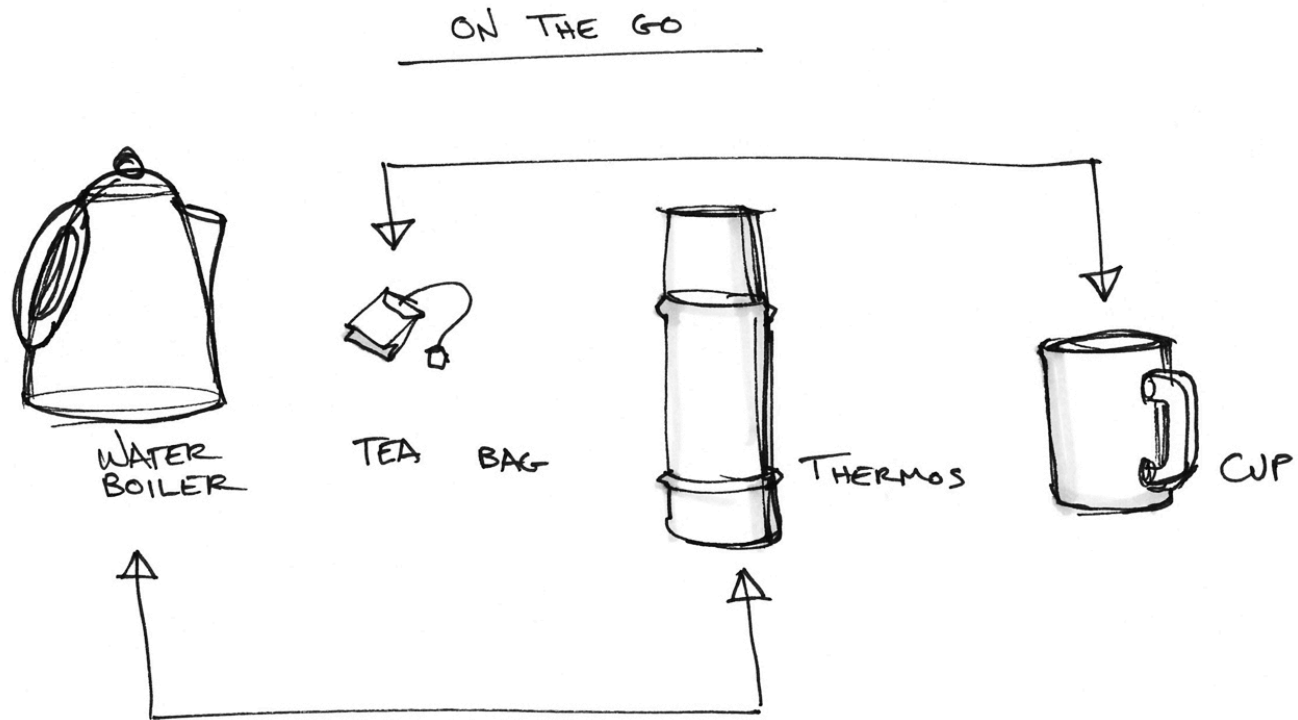
An early stage prototype of this...



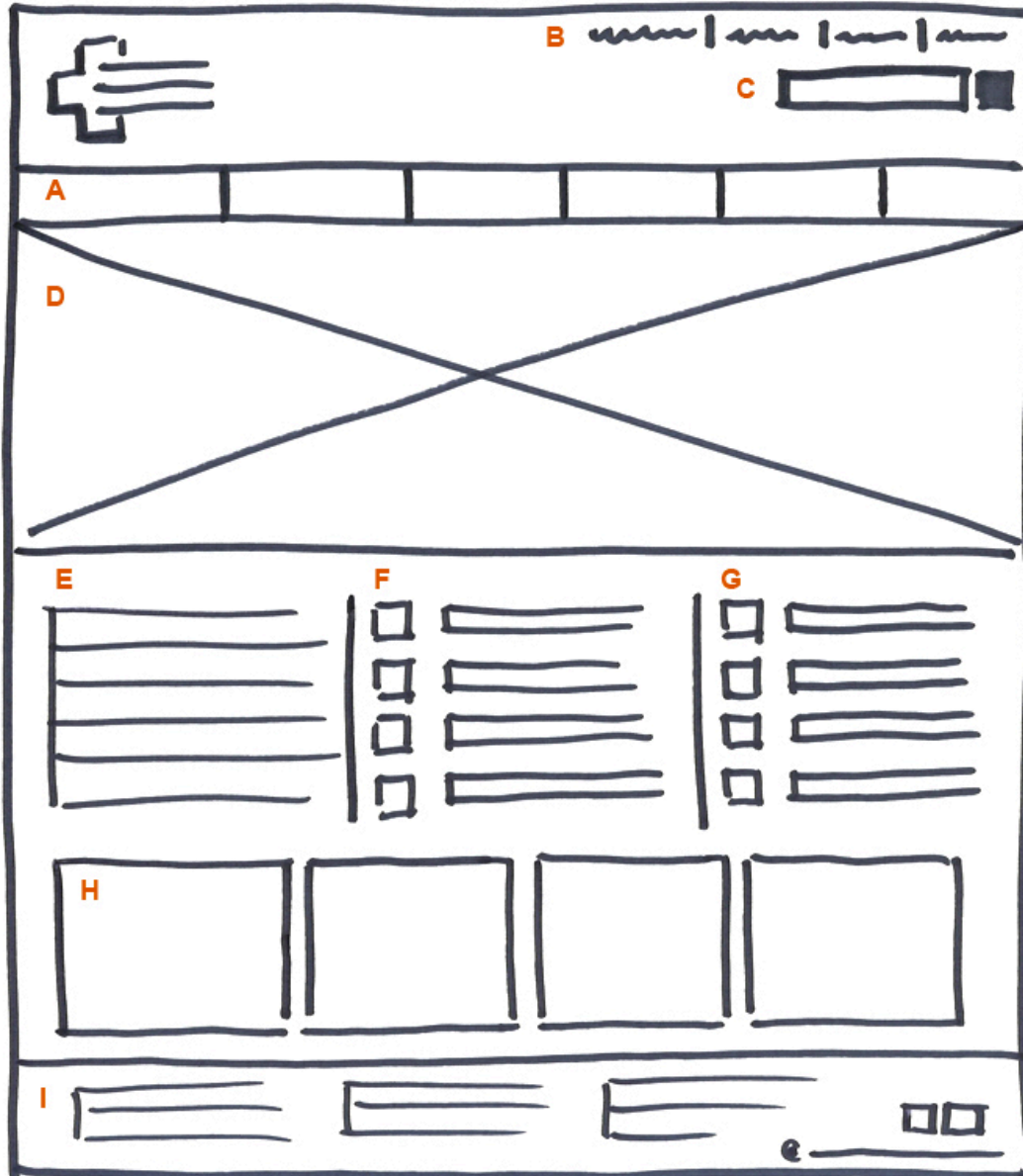
DESIGN-THINKING



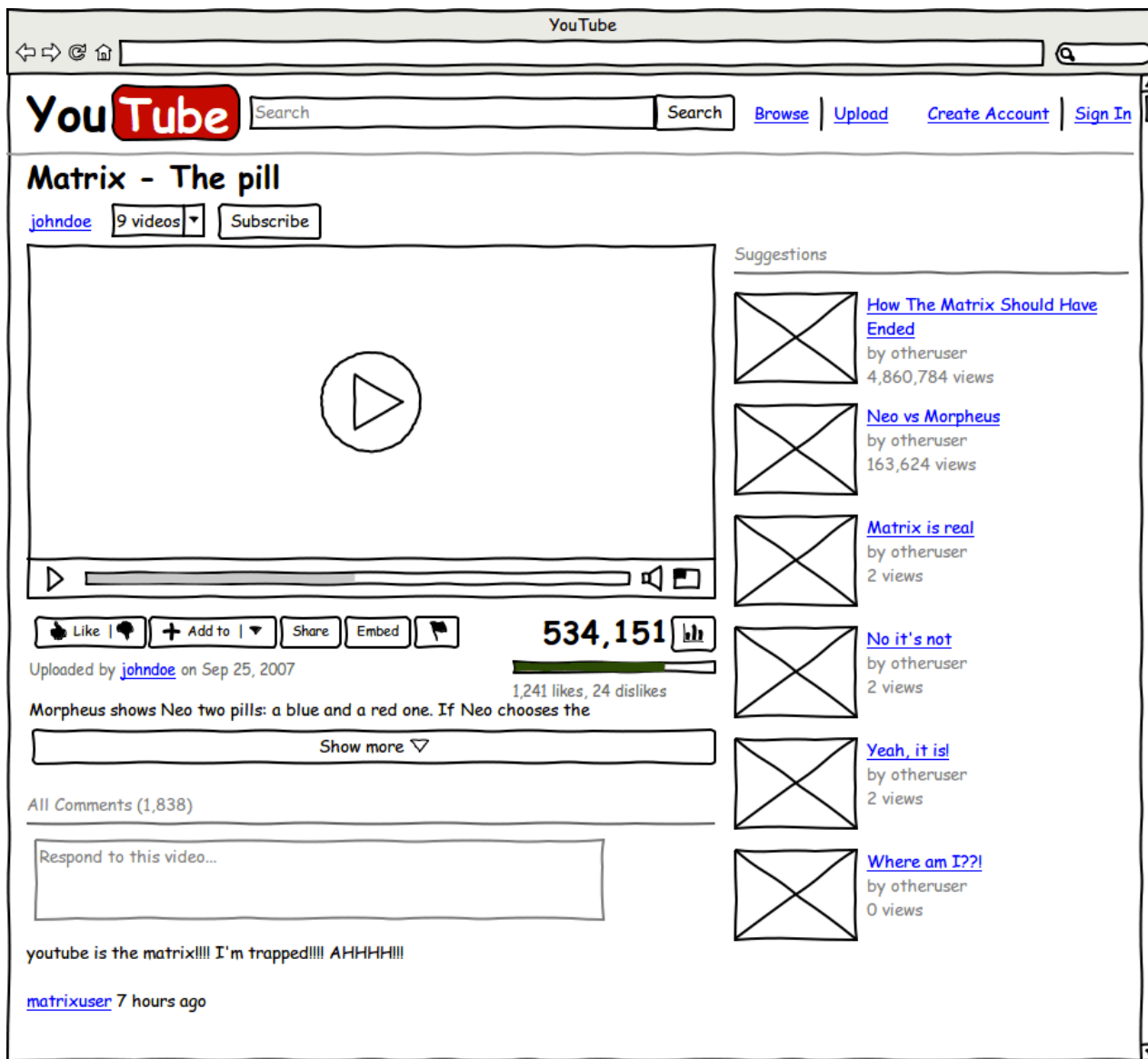
DESIGN-THINKING



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DESIGN-THINKING



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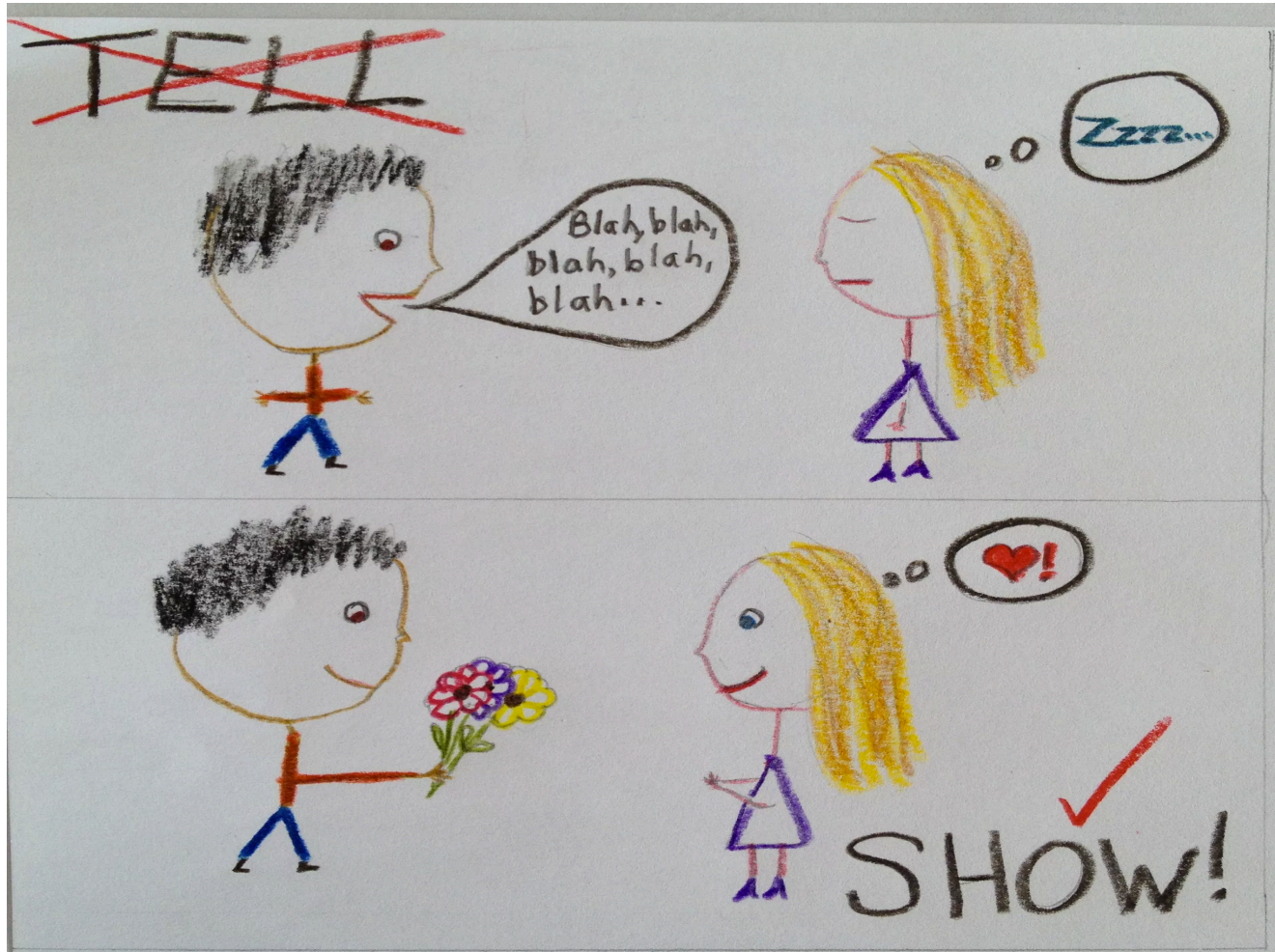


Prototyping

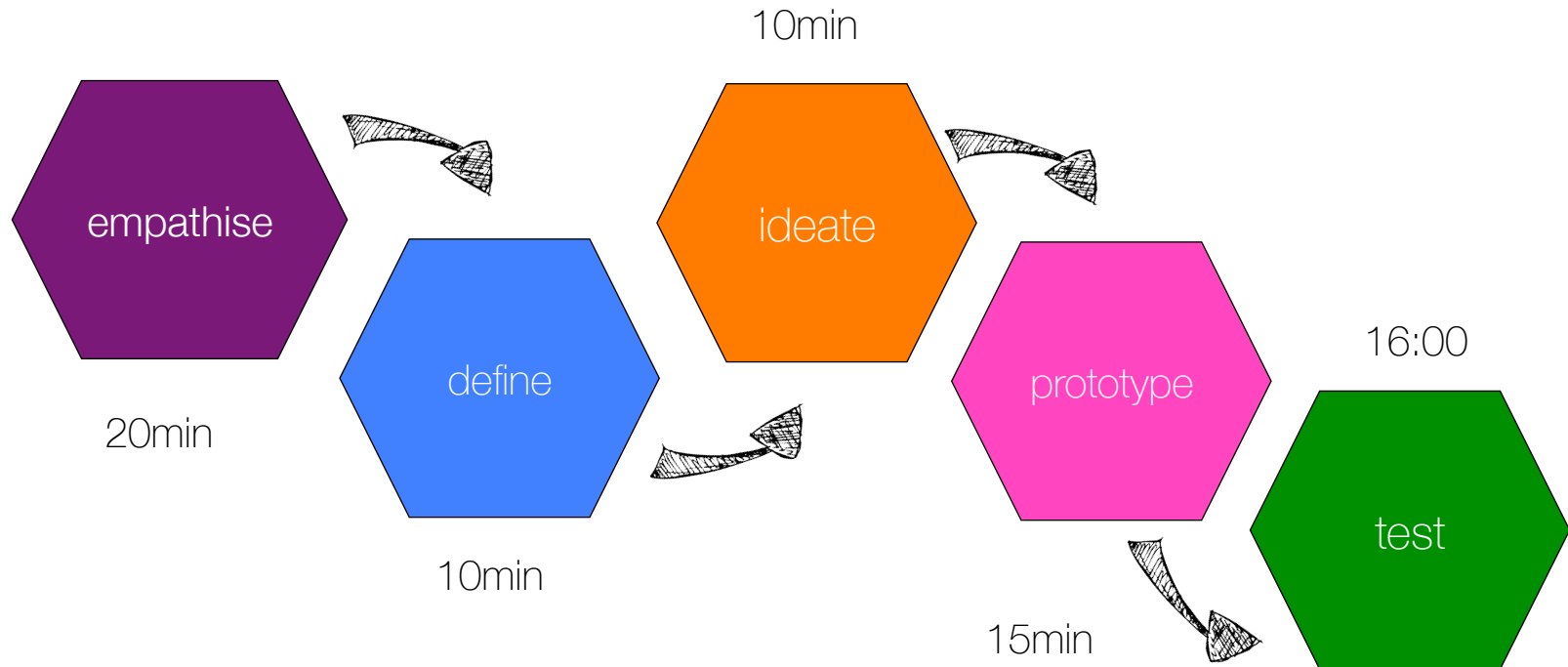
- Rough and rapid
- Build to think
- Communicate at every stage
- Test early, fail often, succeed faster
- Various prototypes for various purposes

- Test with real users

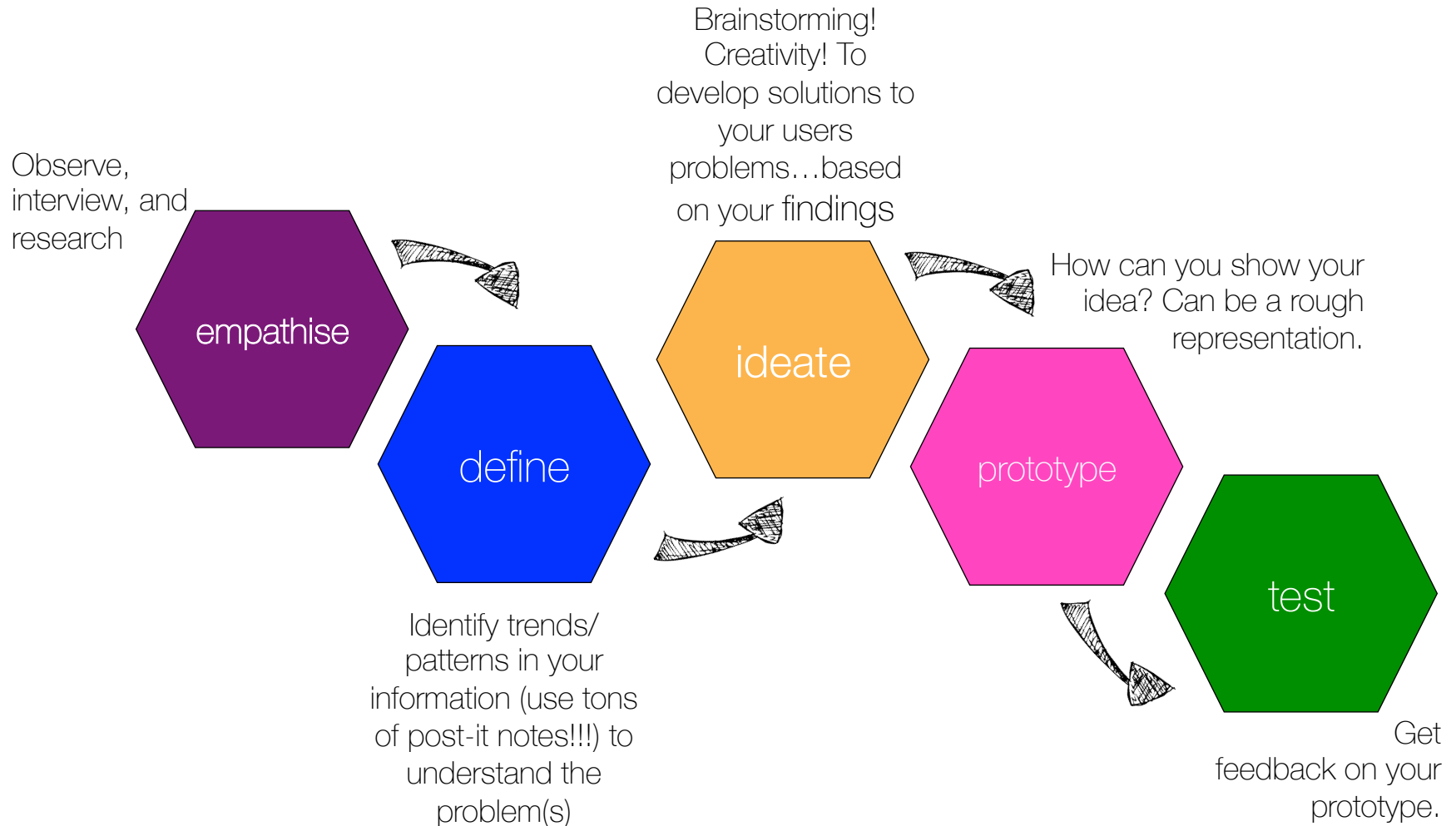
SHOW DON'T TELL



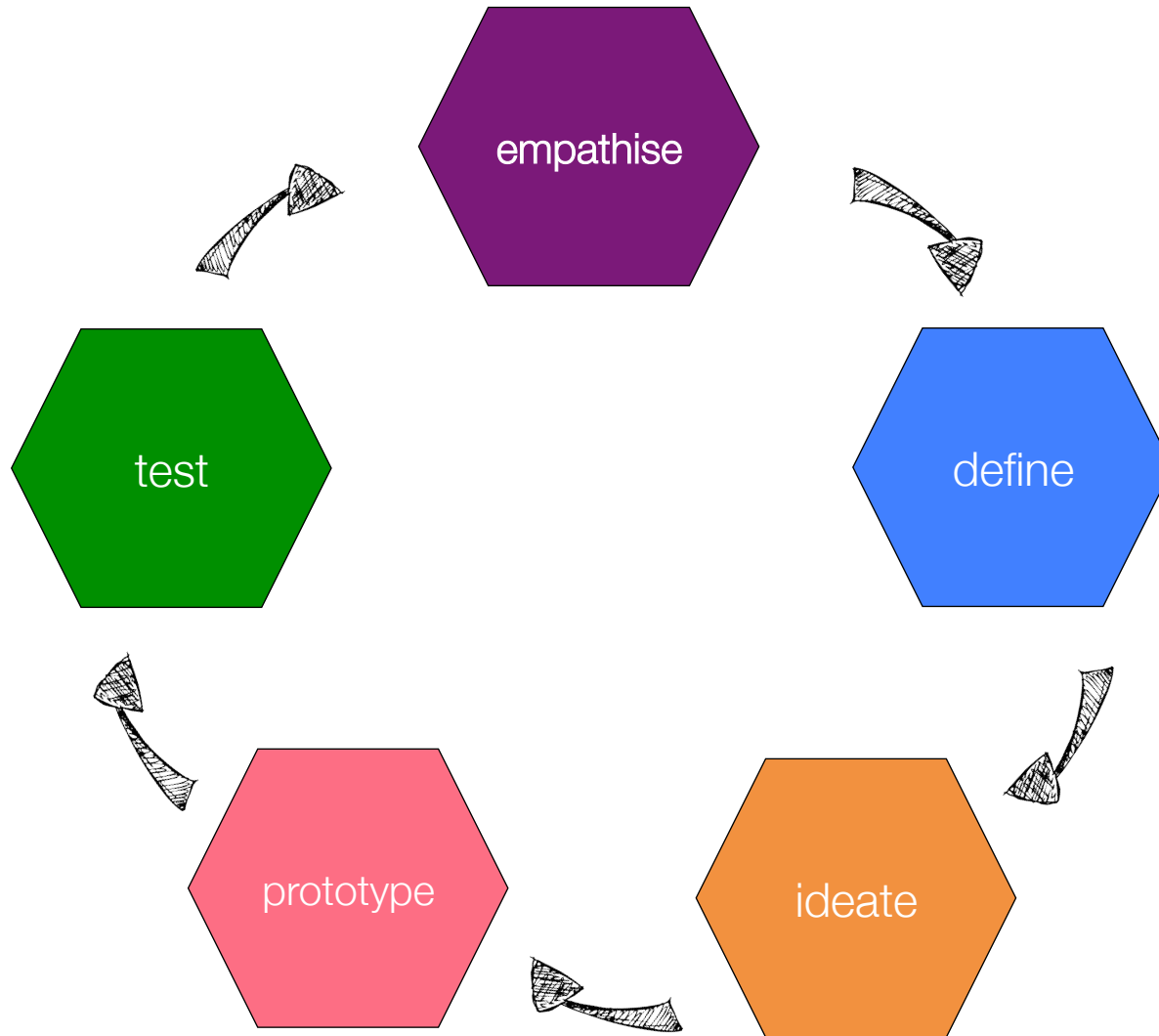
SCHEDULE – “Times no later than”



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"The real voyage of discovery consists not in seeking new landscapes, but in having new eyes."
Marcel Proust

DESIGN-THINKING – Thank you!



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