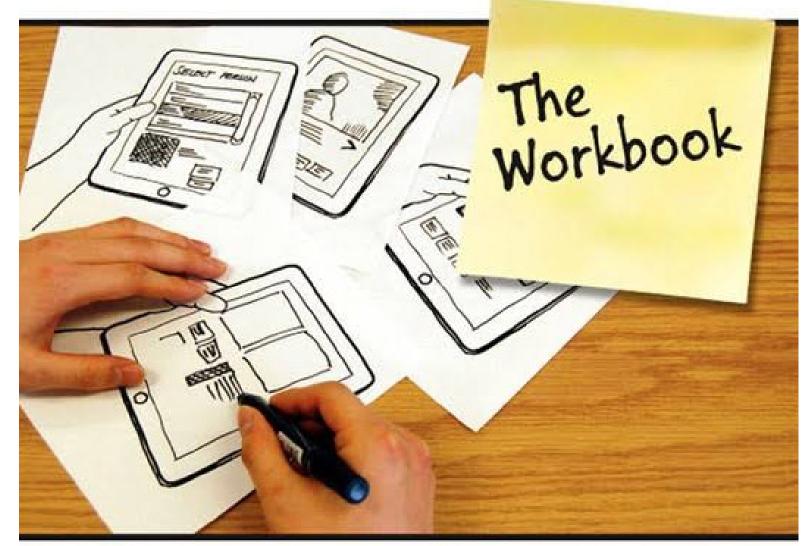


by David Ledo

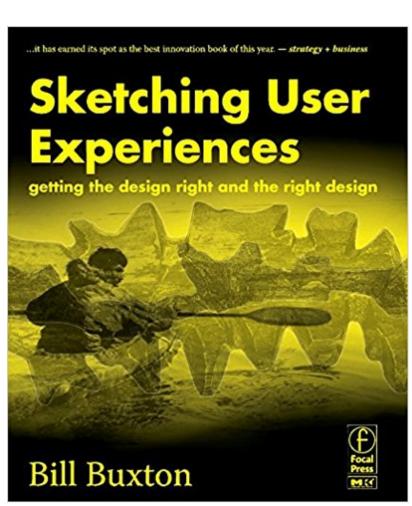
WE WILL STUDY AND WE WILL PLAY - AND WE WILL SEE THAT THOSE ACTIVITIES AREN'T SO DIFFERENT.

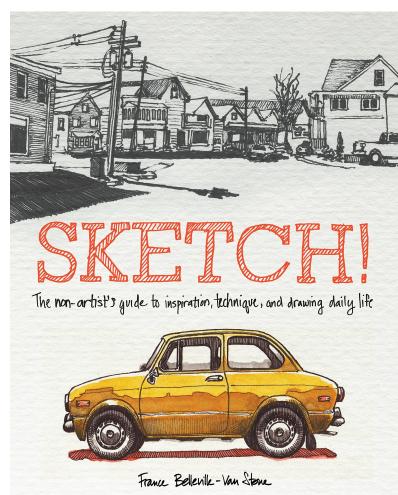
BOOKS

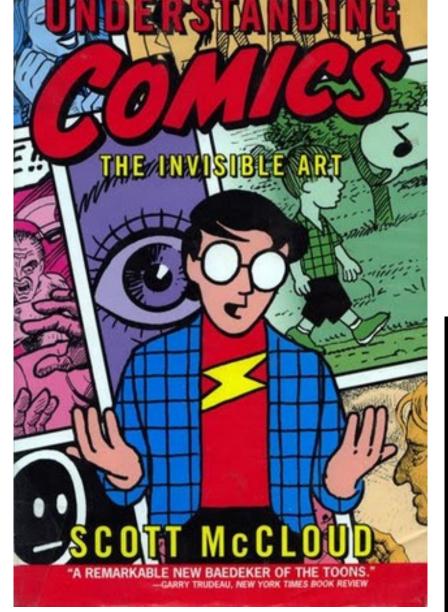
Sketching USER EXPERIENCES

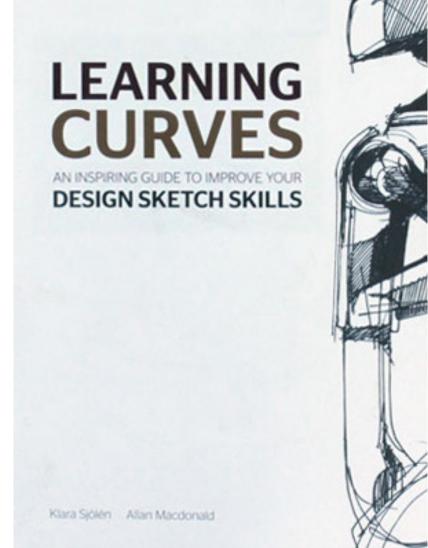


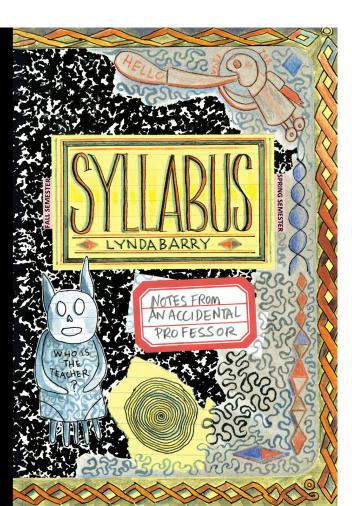
Saul Greenberg Sheelagh Carpendale Nicolai Marquardt Bill Buxton

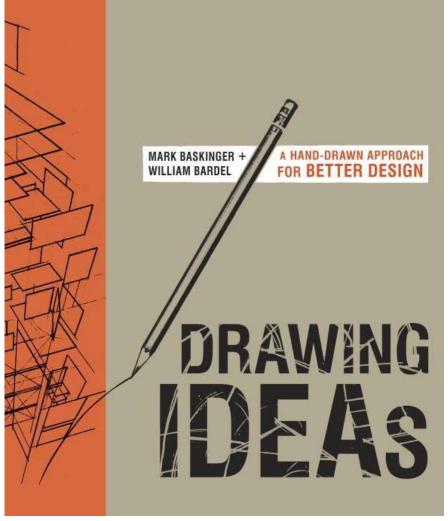


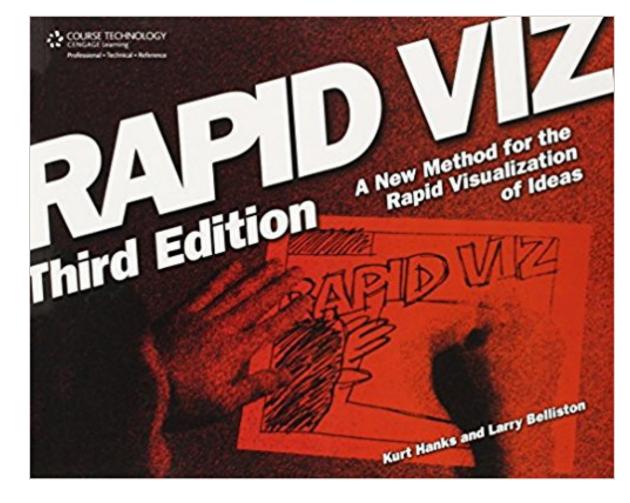














Myth #1

I'M NOT A VISUAL PERSON



You have five new emails vs in your inbox

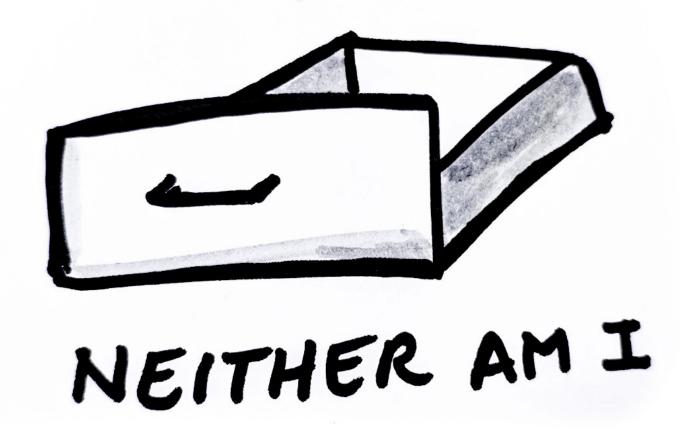


No matter what...

DO NOT THINK OF A POLAR BEAR EATING ICE CREAM

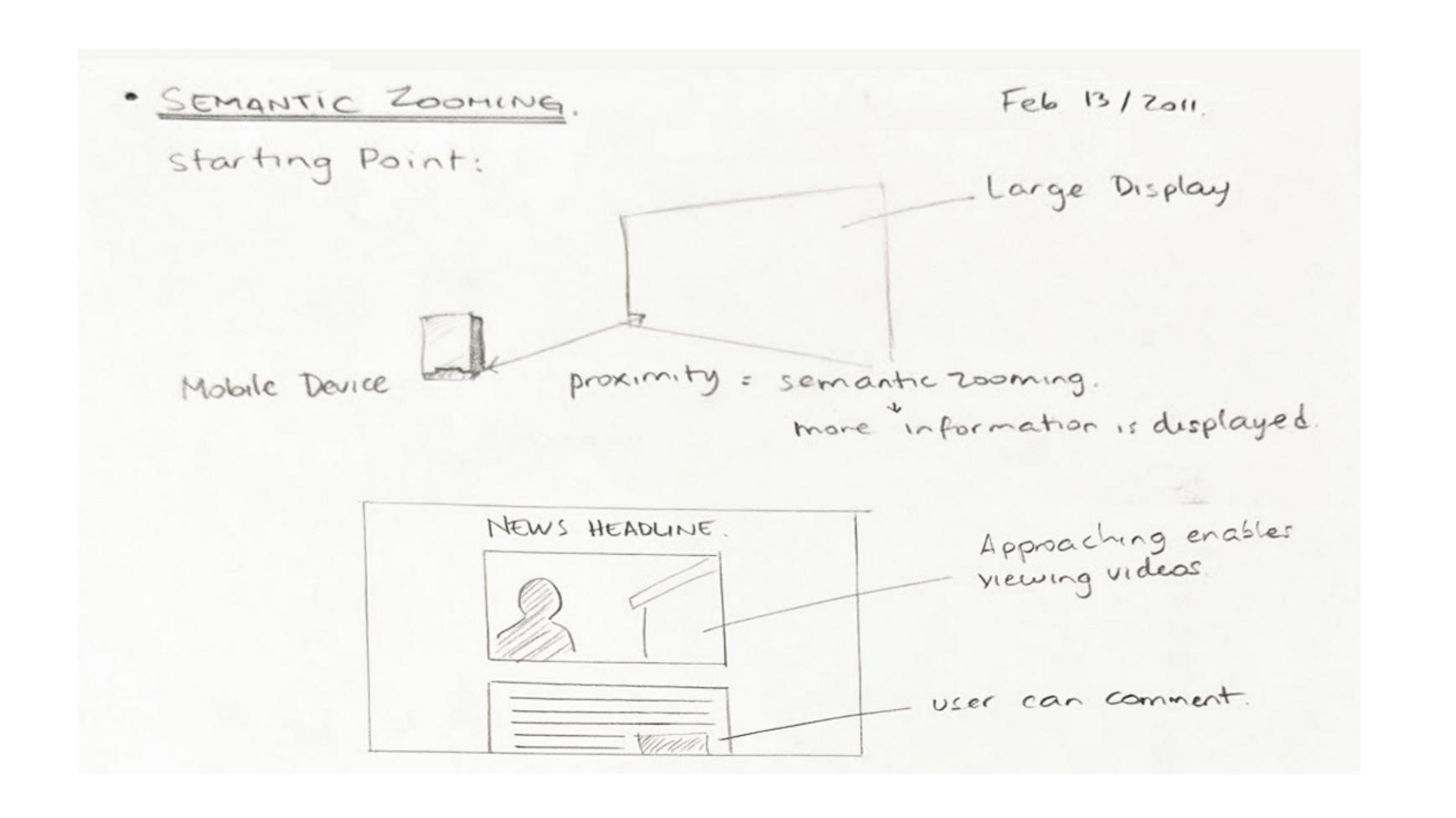
Myth #2

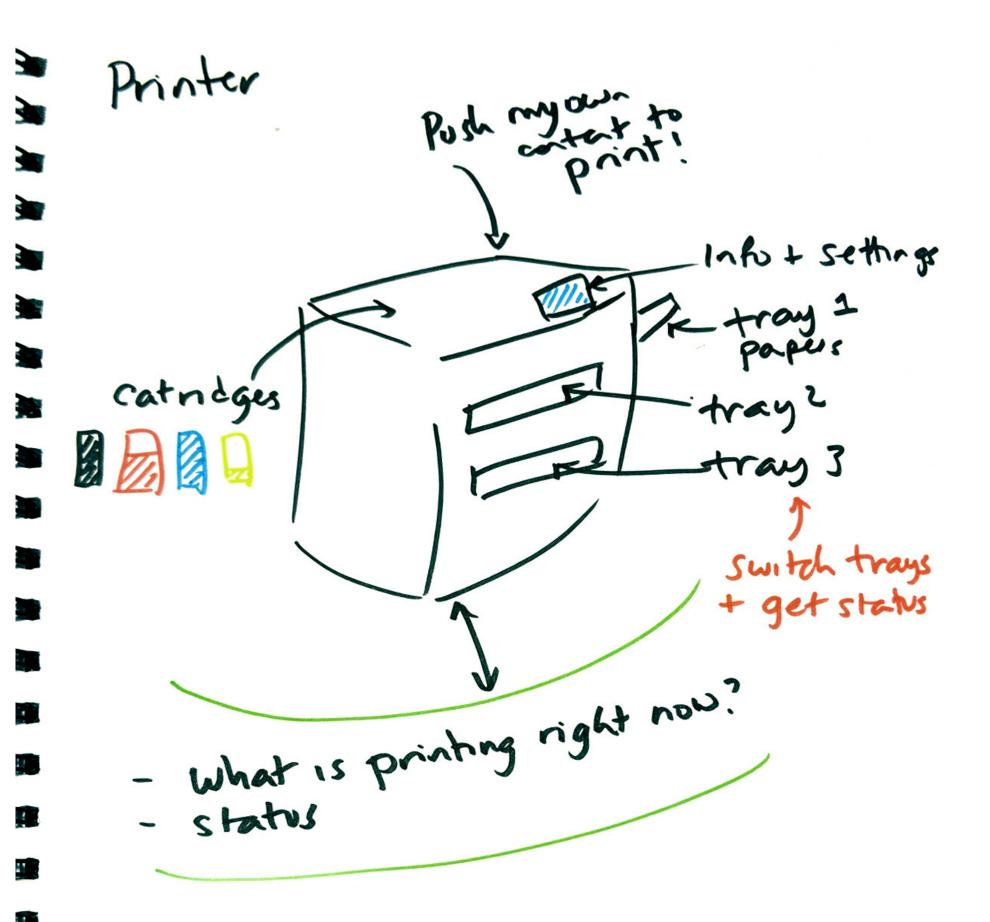
I'M NOT A DRAWER



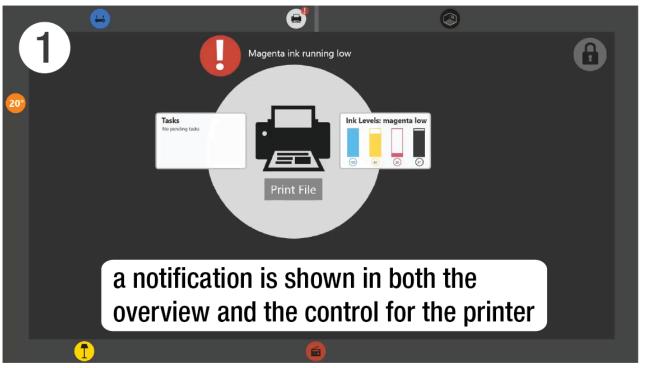
Seriously, this isn't Ikea

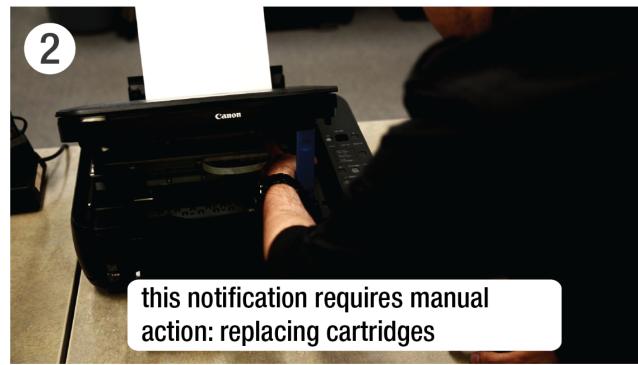
MY OWN JOURNEY





NOTIFICATIONS AND FILE TRANSFER

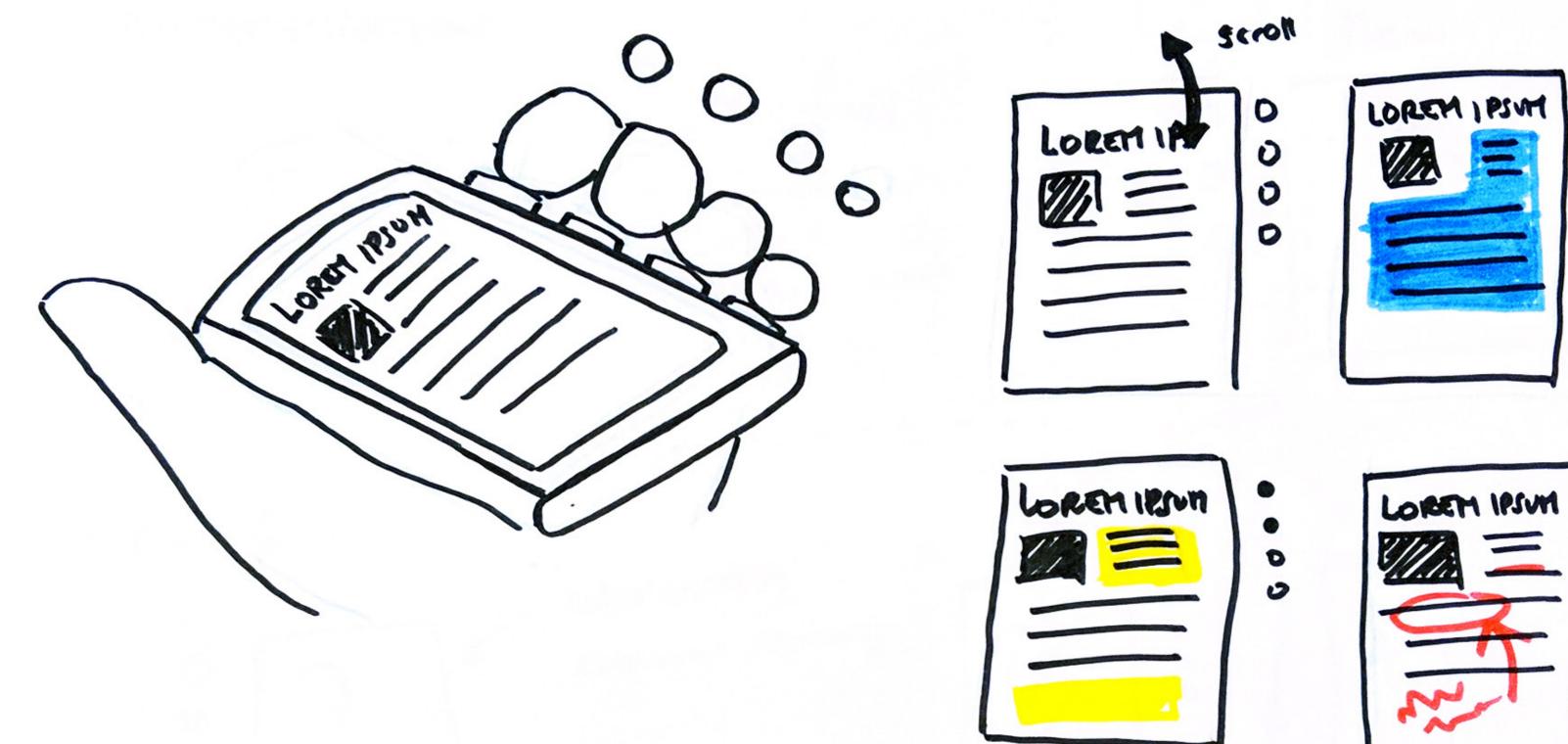






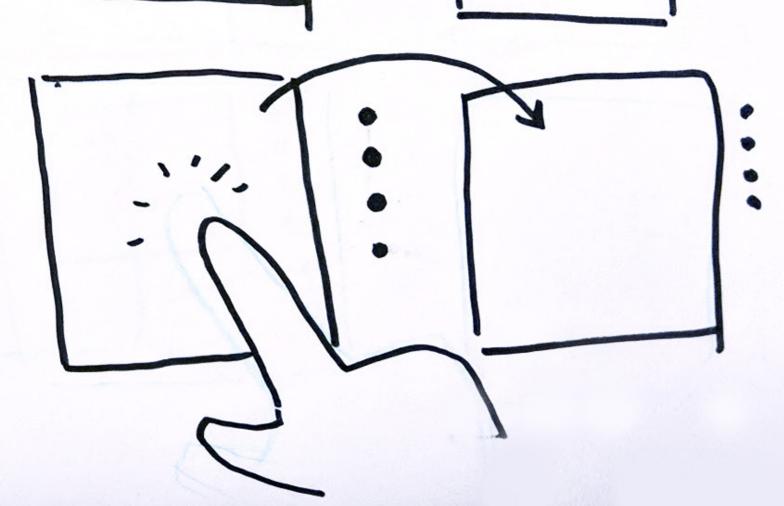


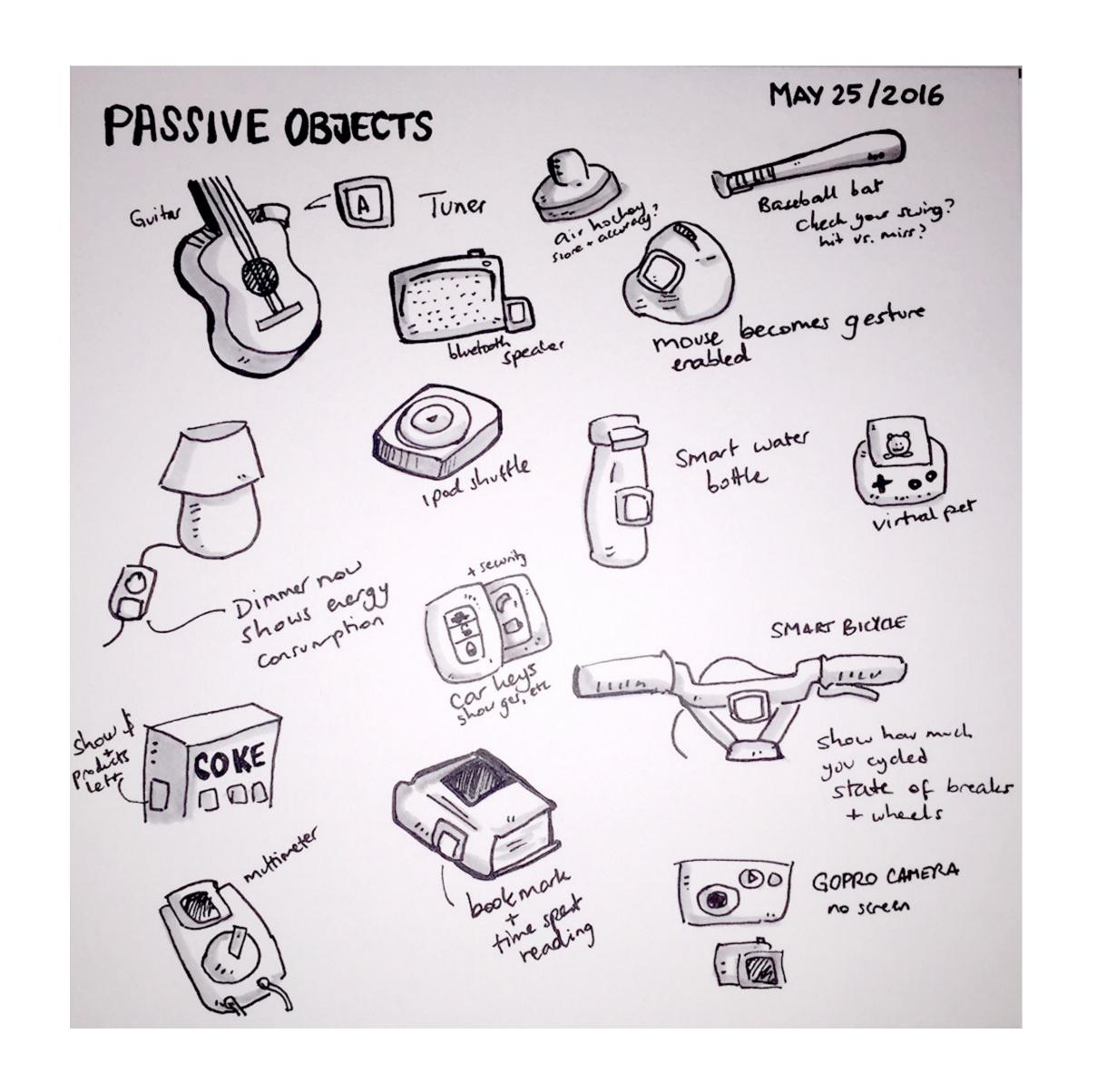
Proxemic-Aware Controls (published 2014)



COPY AND PASTE

could use order of touch and chord chord e.g. touch + chord = copy chord + torch = paste

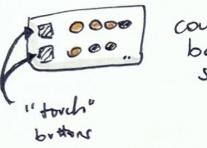




MAGIC 8 BALL



BASEBALL COUNTER



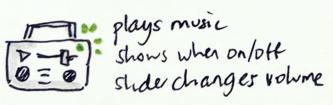
counts for balls and strikes

POLICE CAR



sirens alternate and play a sound

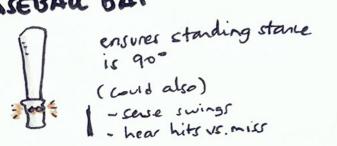
RADIO

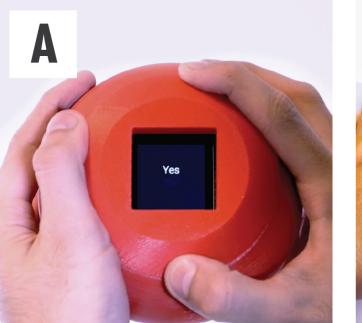


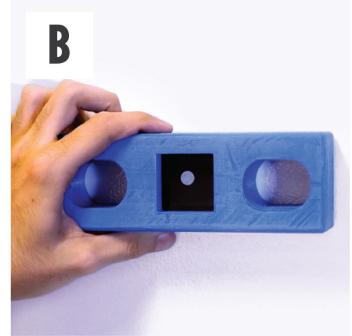
JULY 29/2016



BASEBAU BAT



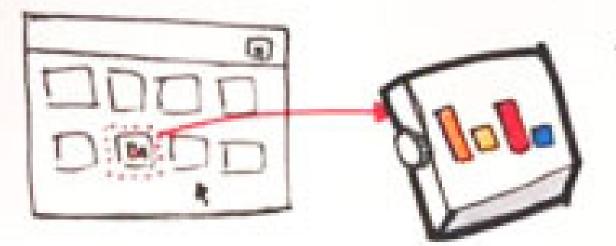






Pineal (published 2017)

SCENARIO #1: WATCH FITHESS VIS



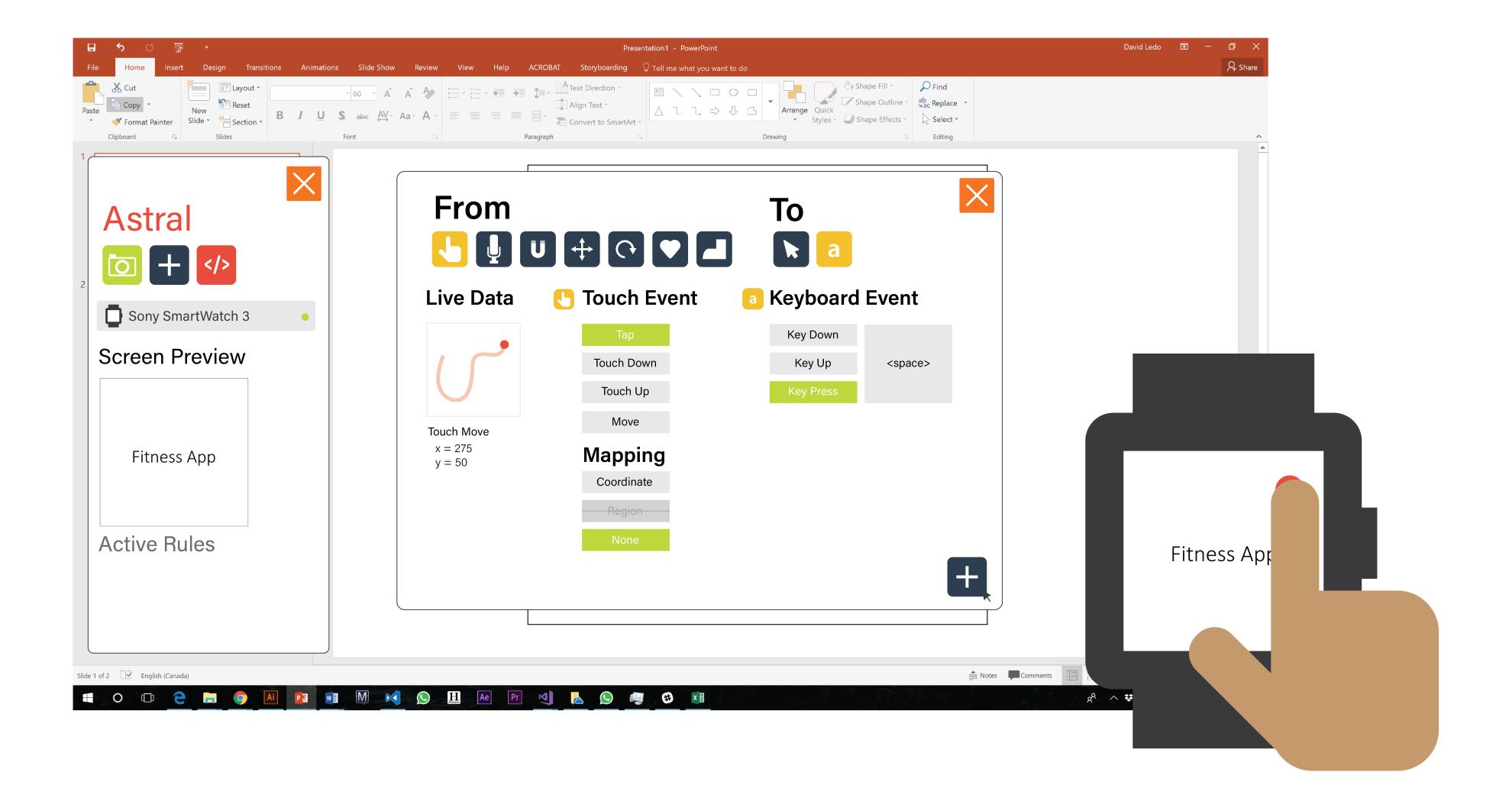
Designer Creates many watch visualizations mockups in illustrator. They can check what they look like on the watch. The designer can check many alternatives and even modify them on the fly.

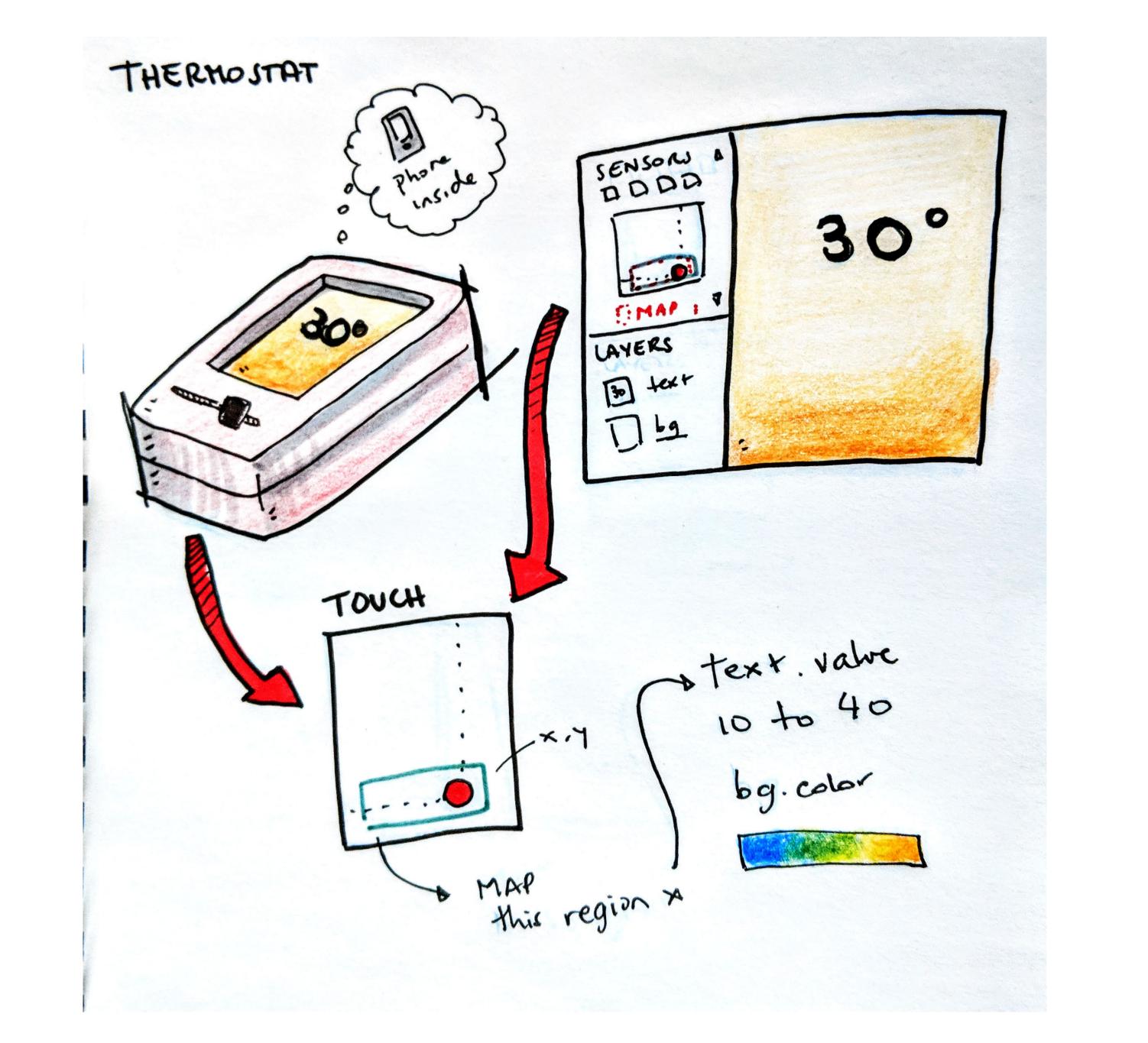
SCENARIO #2: POWER POINT MOCLUP

Designer creates powerpoint modup for watch application with many "states" or pages. The designer maps a touch down event to a mouse click event to test their interface on the watch.



PRESENTATION MOULUP PPI







PUTTING YOUR AUDIENCE FIRST

DECD WELLBEING

SELFIECITY DDDDD

2017 ELECTION

DATA

sense, making





Internet is

Pone click away

WAHL 2017

GERMAN ELECTION TAGS

AN EXERCISE IN COMMUNICATION &

1. Off experiences

ACCIDENTALLY DISCOVERY SAME EXPECTATIONS AS THE WWW

politically interested linked from news

LESSONS

- BE AN EDITOR what do you want to show out of the data?
- careful with data bias! EVERYTHING IS USEFUL!!!
- reorganize your data
- DO NOT DISTORT DATA
 - remap ah-rub
- multiple vis
- battle complexity
- scroll hover filter search Q

@DavLedo

SKETCHES BY PEOPLE

NICK SOUSANIS

Comic Artist

UNFLATTENING: A DISSERTATION IN COMICS FORM

NICK SOUSANIS I DOCTORAL CANDIDATE TEACHERS COLLEGE, COLUMBIA UNIVERSITY (USA) NSOUSANIS@GMAIL.COM I WWW.SPINWEAVEANDCUT.COM

UNFLATTENING IS A PROJECT TO REIMAGINE THE FORMS SCHOLARSHIP CAN TAKE AND COUNTERACT WHAT I CALL "FLATNESS" - A CONTRACTION OF SIGHT, A NARROWING OF POSSIBILITIES.



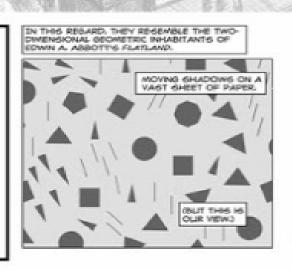
OUR EDUCATIONAL INSTITUTIONS CAN FOSTER FLATNESS - PUTTING US IN BOXES WE COME TO ACCEPT AS REALITY.



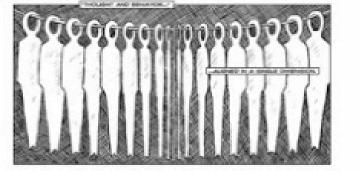
THE PROPERTY OF THE PROPERTY O

A STAN

JUST AS INHABITANTS
OF ABBOTT'S FLATLAND
ARE UNABLE TO
FATHOM THE CONCEPT
OF "UPWARDS" - WE
TOO ARE UNABLE TO
SEE BEYOND THE
BOUNDARIES OF OUR
CURRENT FRAME OF

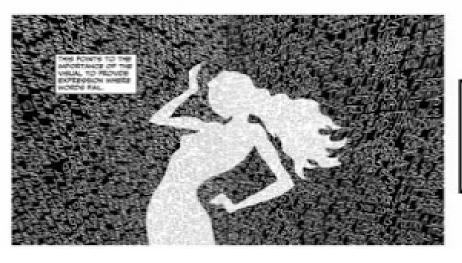


THOUGHT AND BEHAVIOR ALIGNED IN A SINGLE DIMENSION, WHAT MARCUSE CALLED ONE-DIMENSIONALITY.

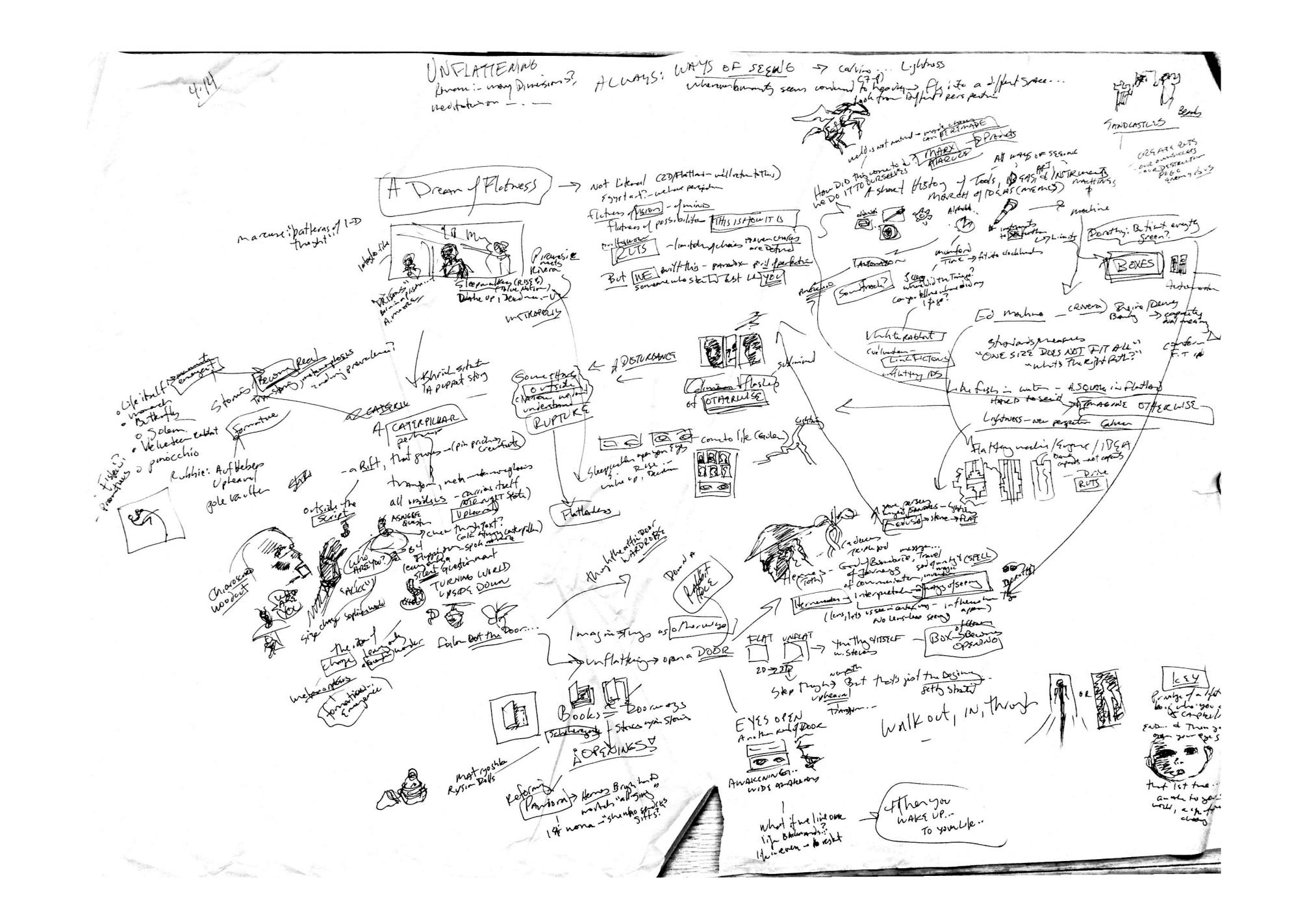


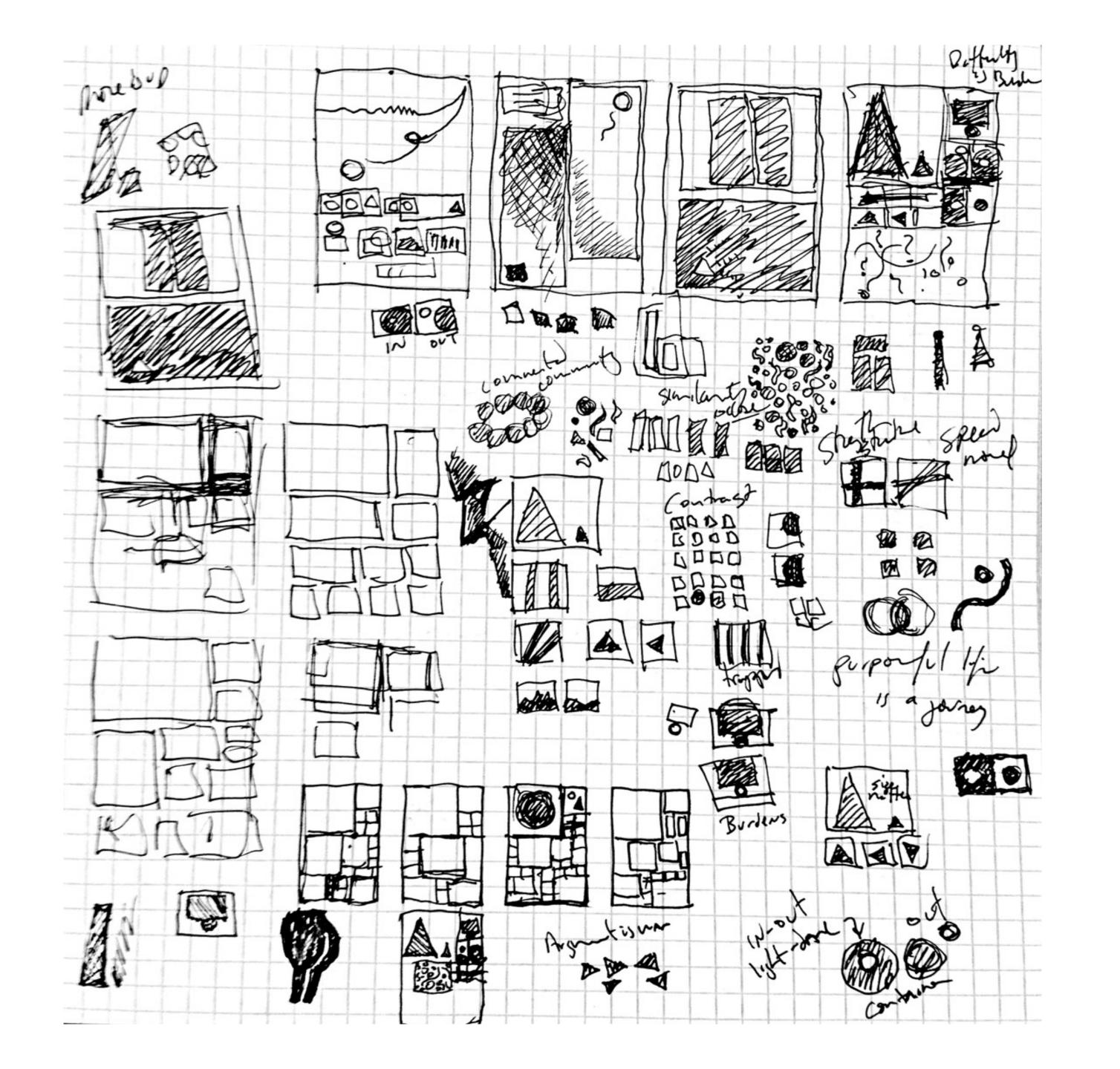
SPECIFICALLY, I CHALLENGE THE TRADITION OF VERBAL DOMINANCE AS THE PROPER MODE OF THOUGHT.

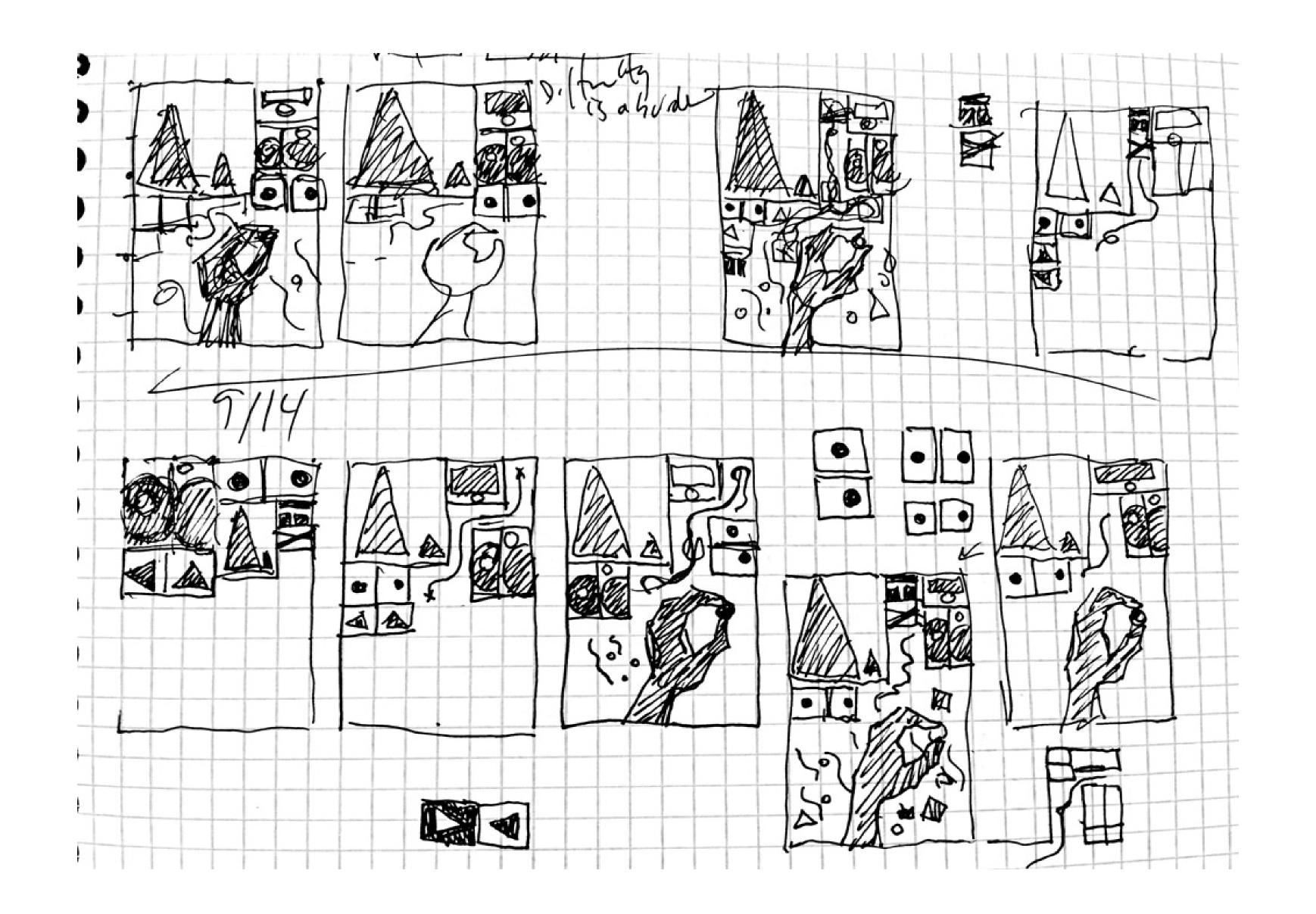
> THIS WORK EMBODIES ITS DRIVING QUESTION - WHAT ARE WE MISSING WHEN WE RELY ON ONLY ONE MODE?



COMICS LET US BE AMPHIBIOUS -BREATHE IN WORLDS OF IMAGE AND TEXT.

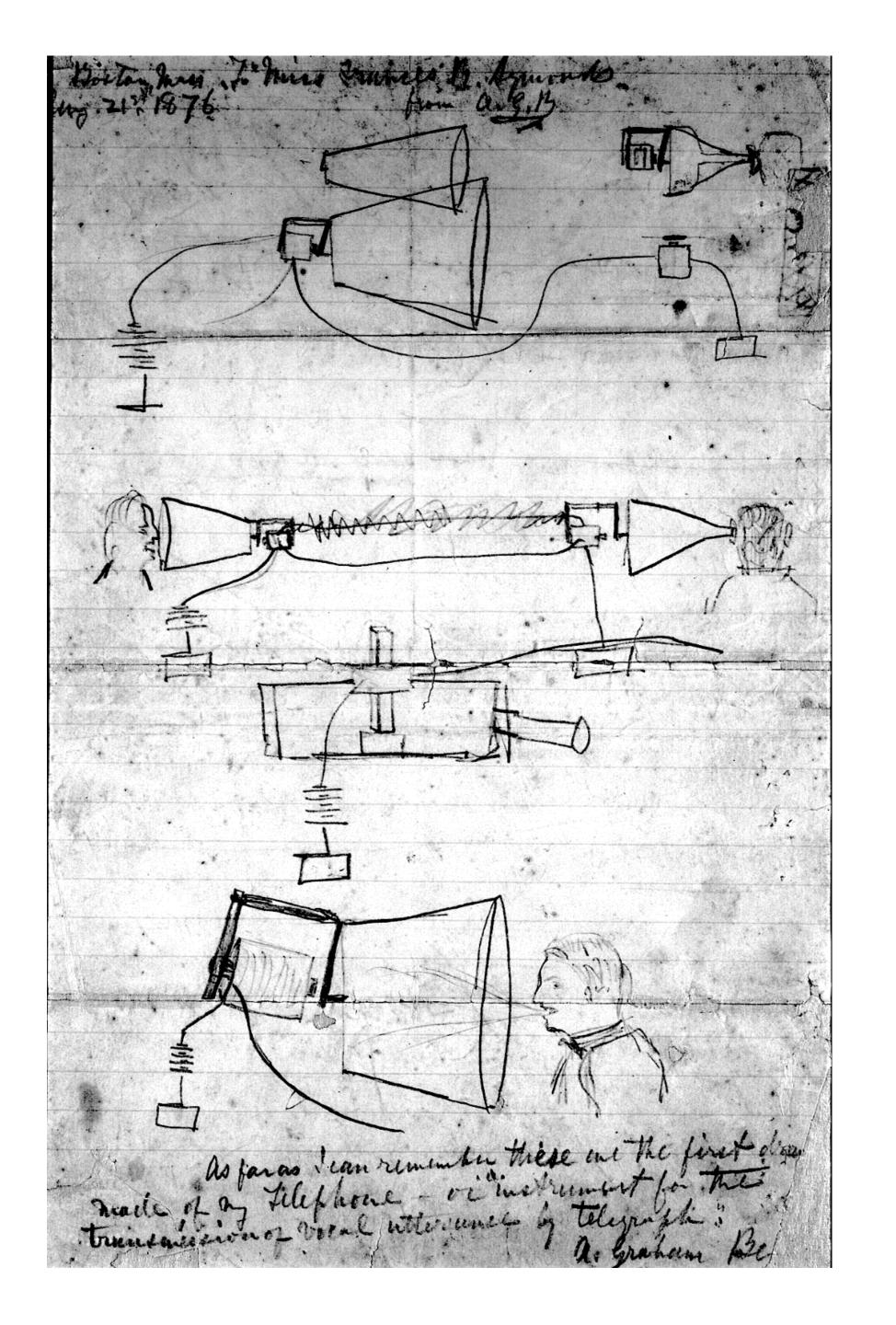






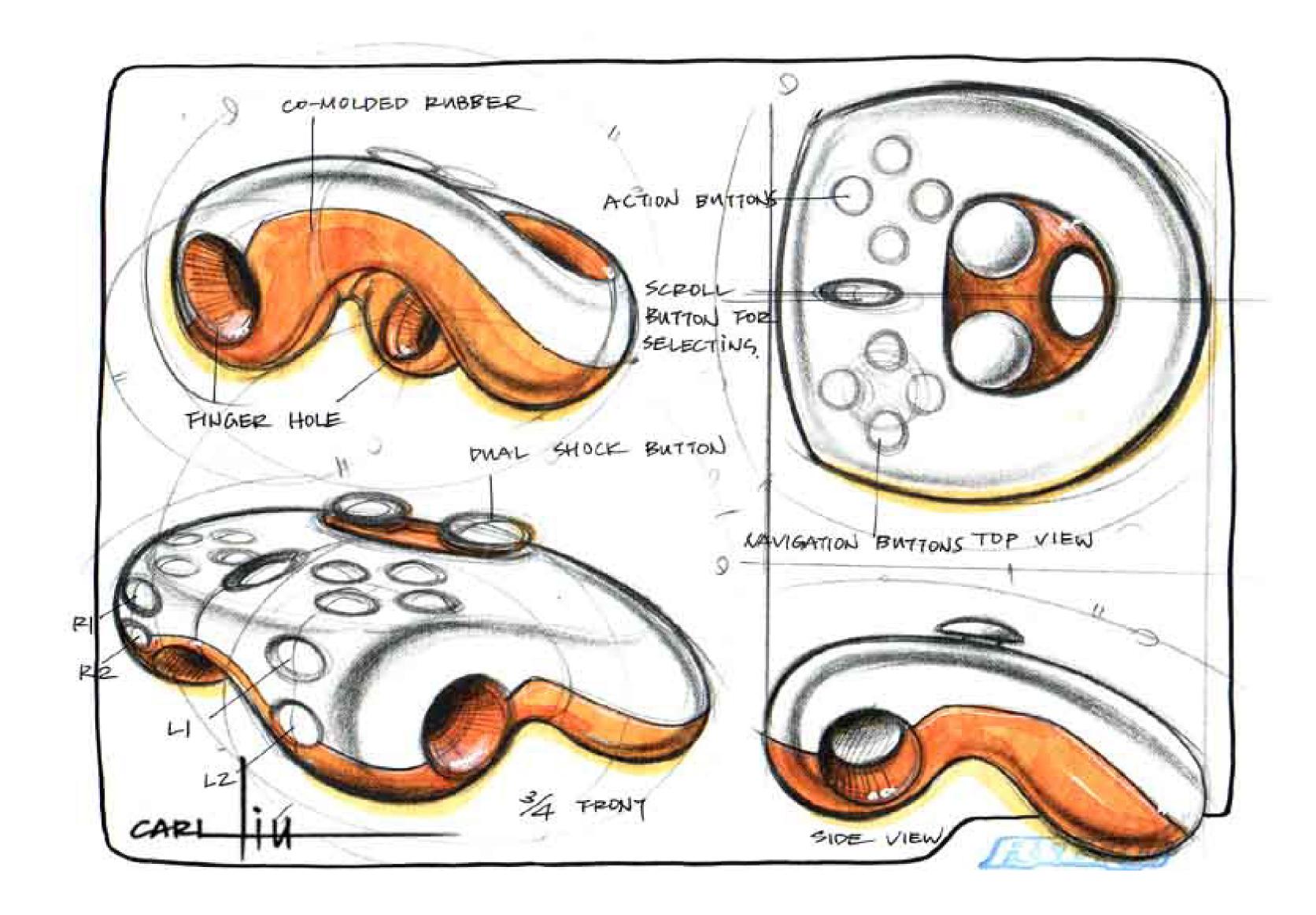
ALEXANDER GRAHAM BELL

Scientist/Inventor

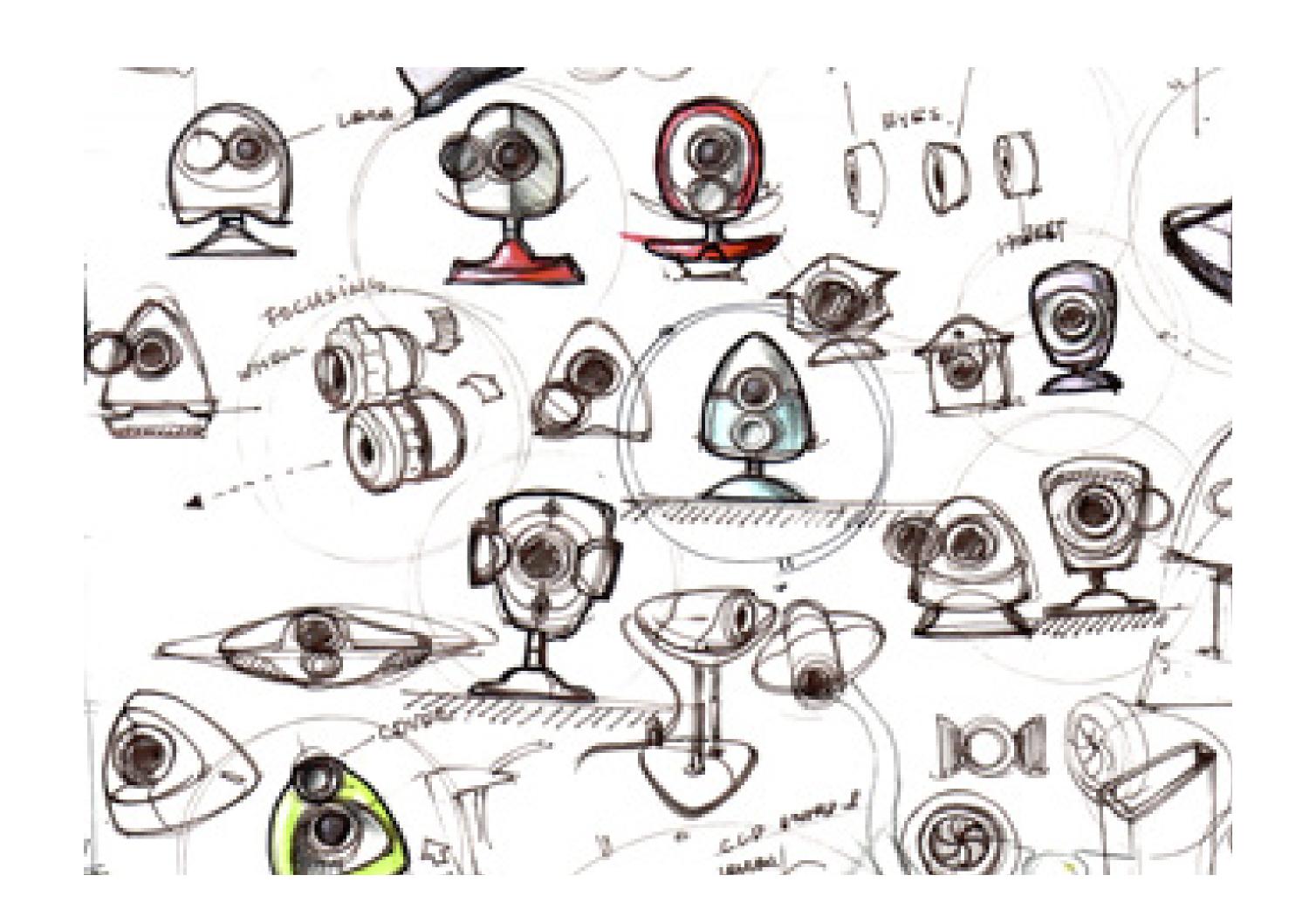


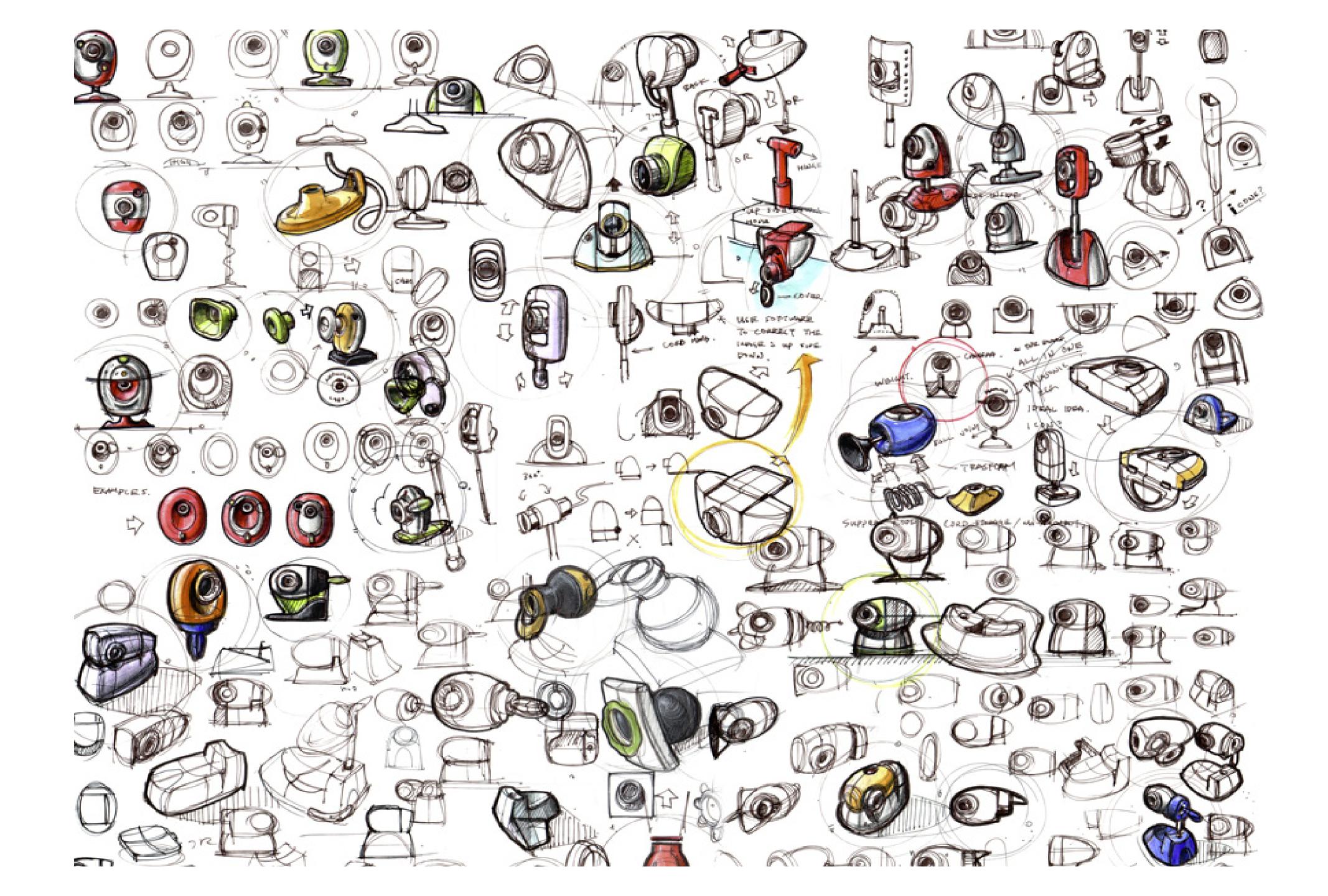
CARL LIU

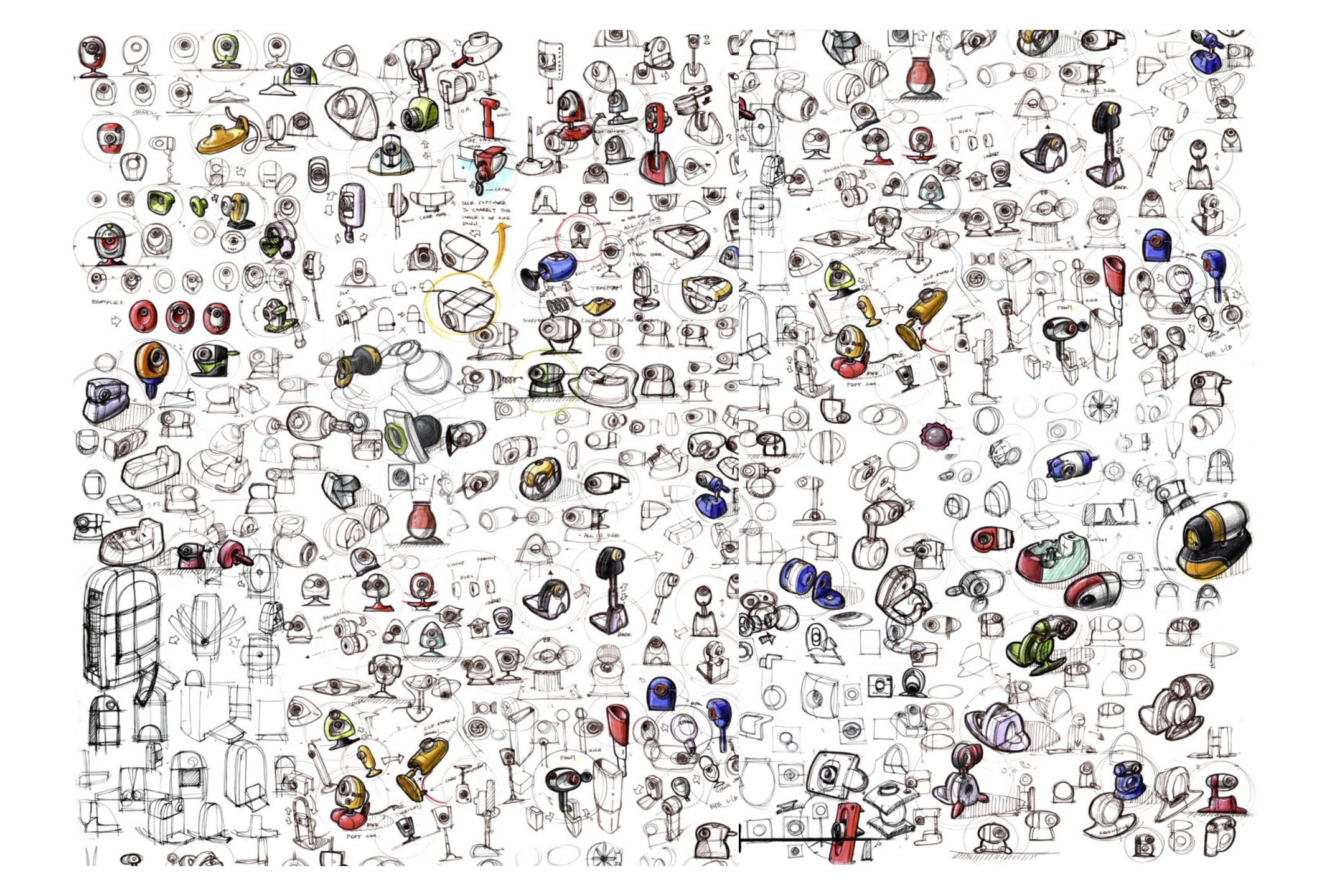
Industrial Designer

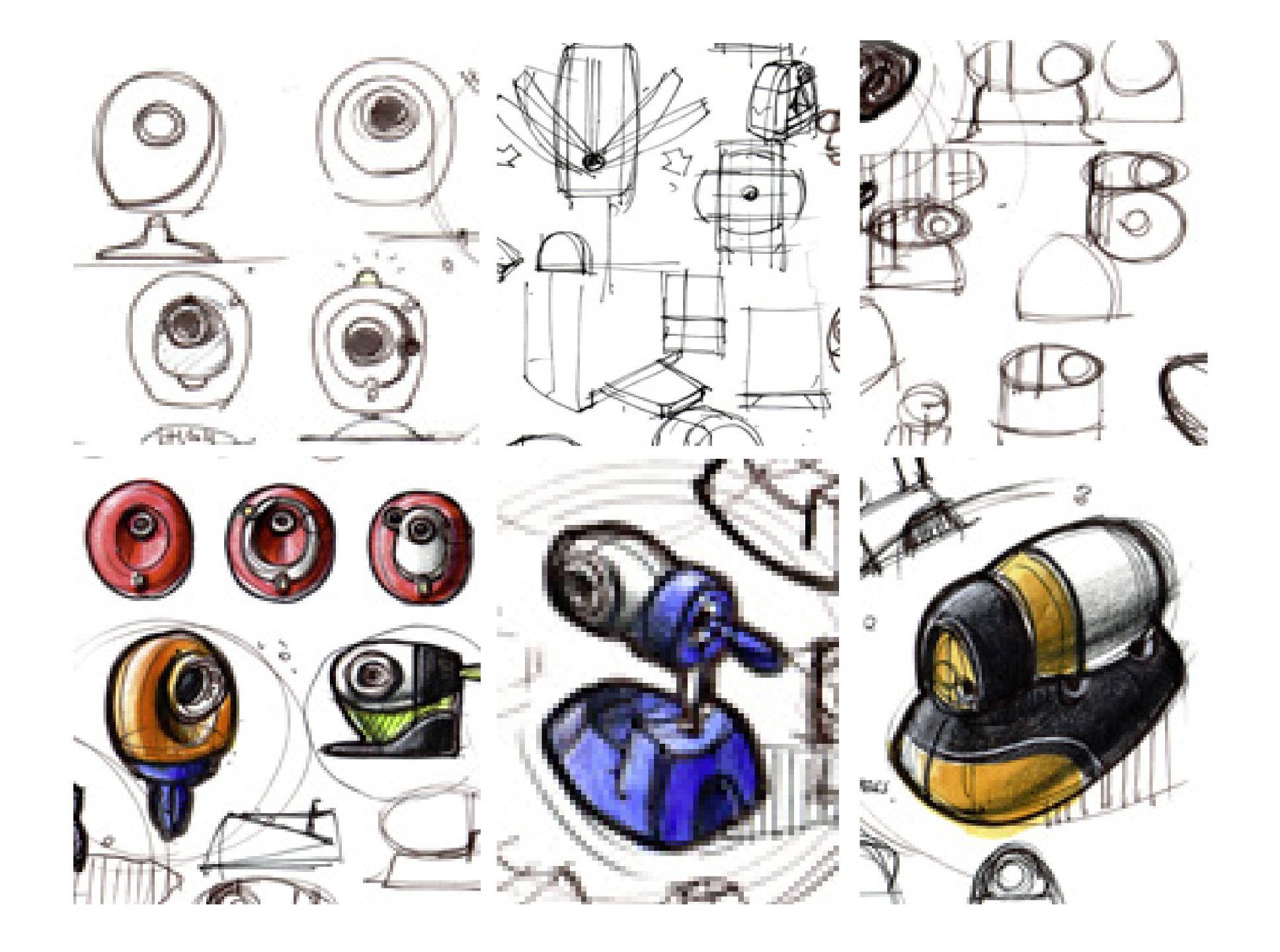






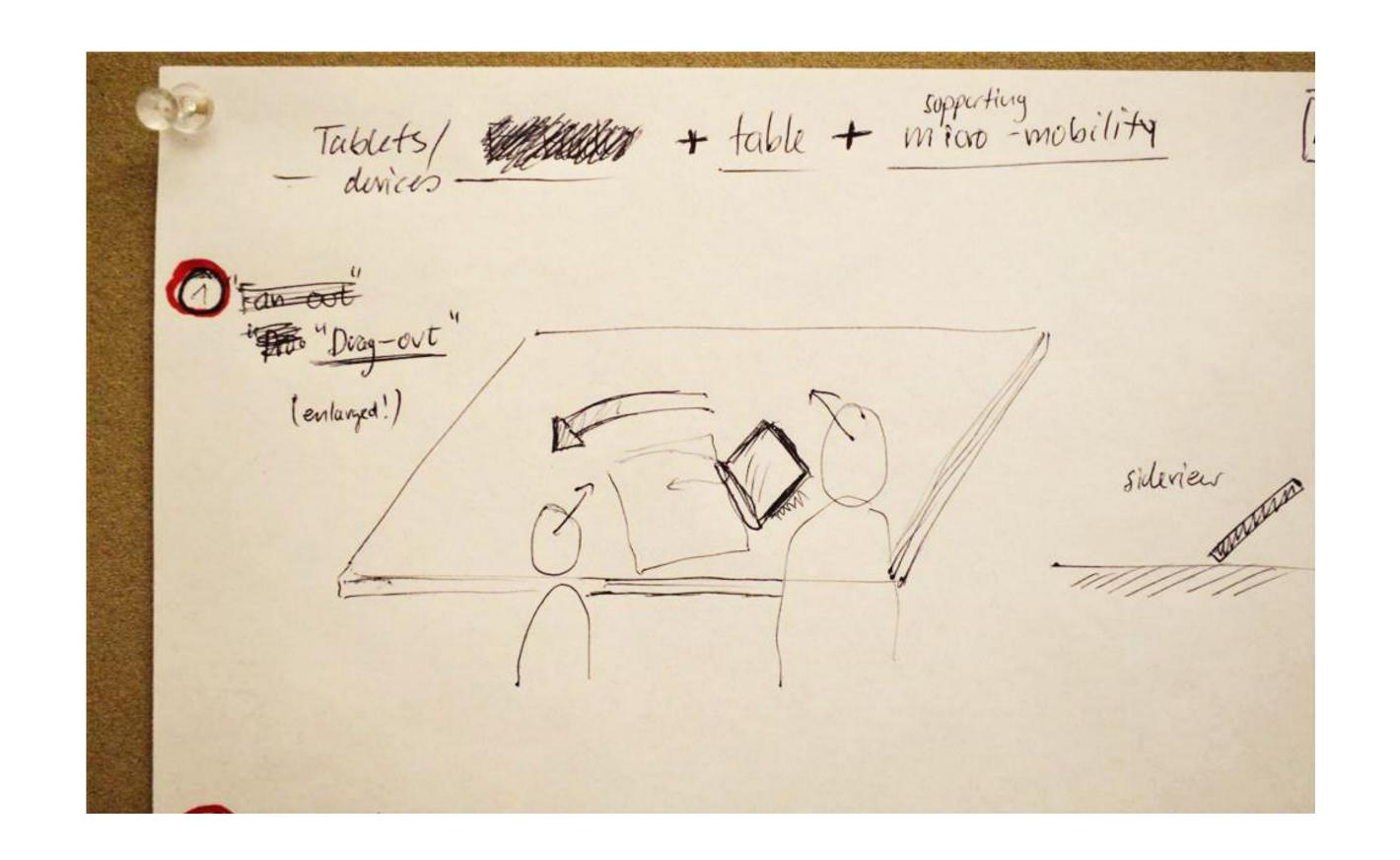


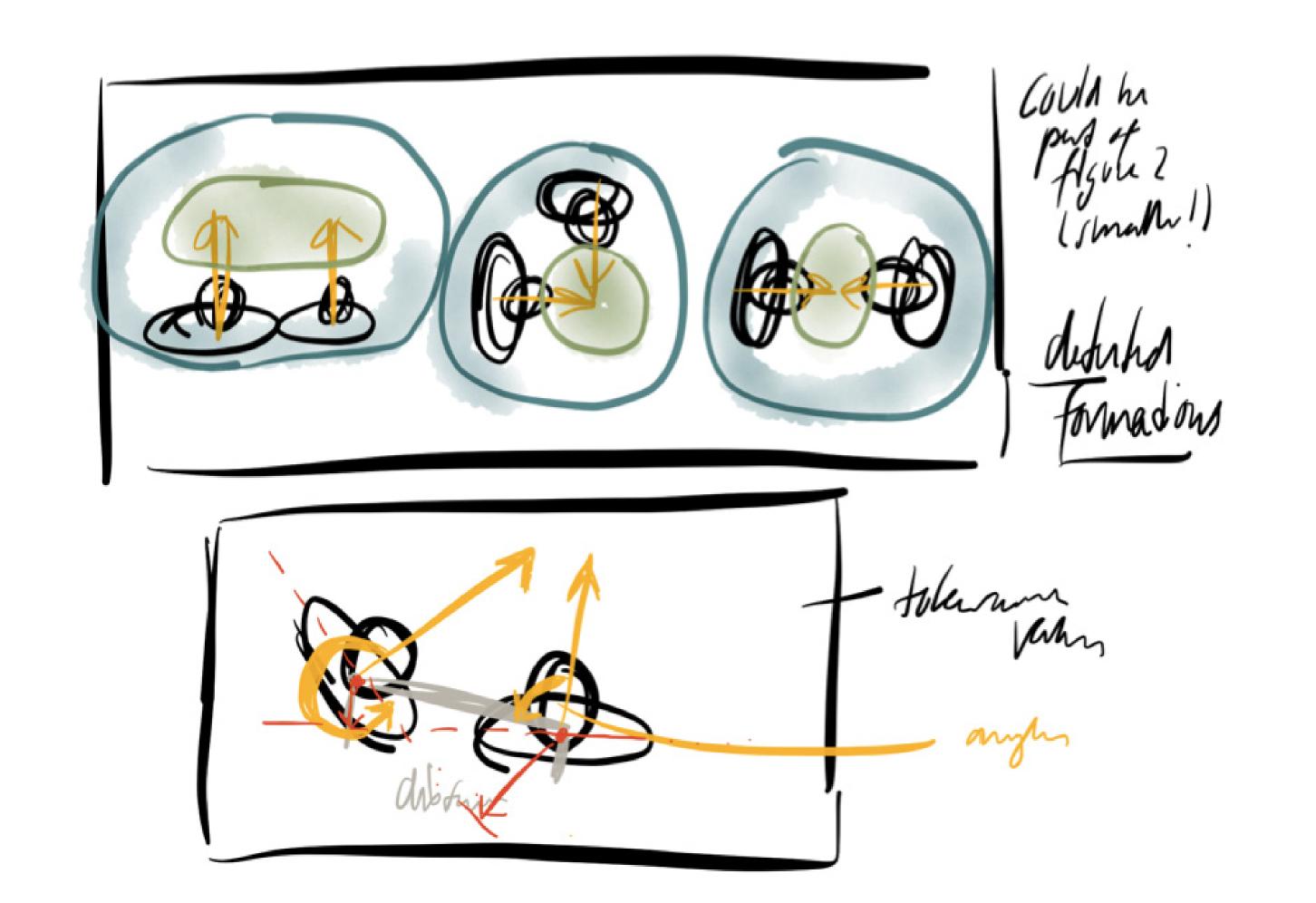


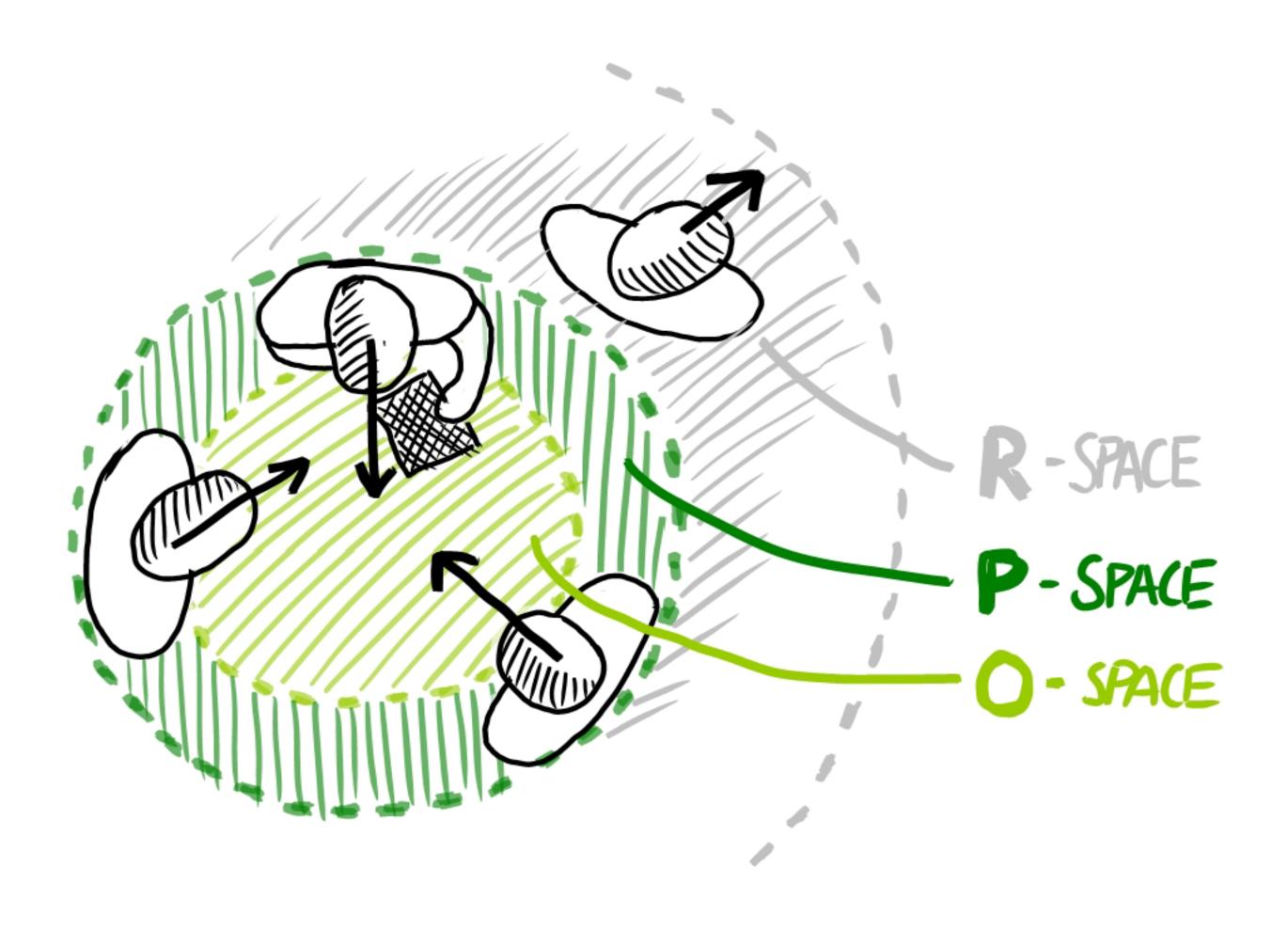


NICOLAI MARQUARDT

HCI Researcher









Face-to-face



Side-to-side

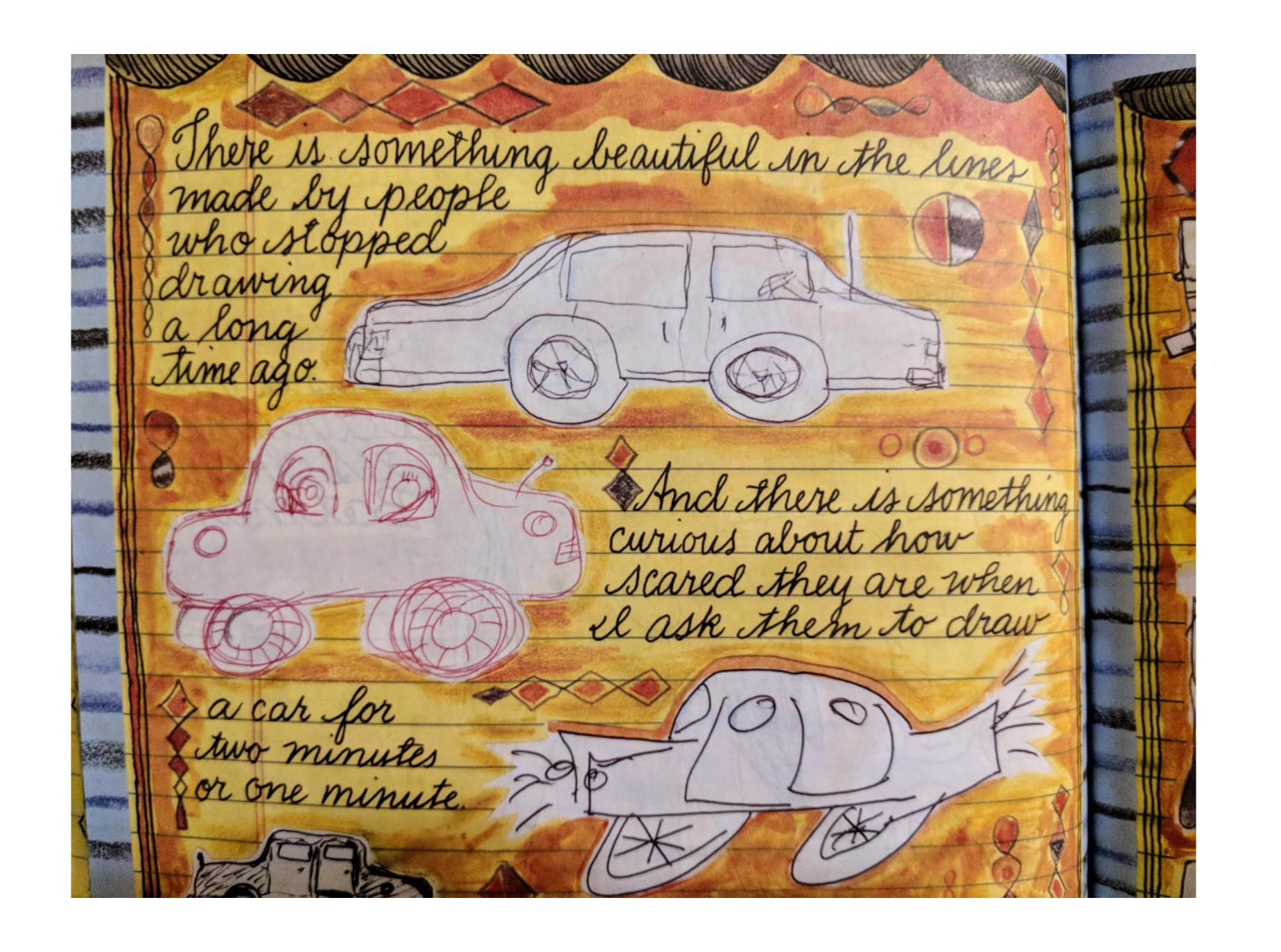






LYNDA BARRY

Comic Artist



WARMUP

See where you are at

Divide your page into 4 parts

Label each part - 4 min, 2 min, 1 min, 30 sec

We will be drawing **BATMAN**

Maybe at home try this with: house, car, mobile phone, computer

EXERCISE... AGAIN

Divide your page into 4 parts

Label each part - 2 min, 1 min, 30 sec, 15 sec

Pick one of these: HOUSE, CAR, TELEPHONE

Draw your choice 4 times, discuss with the person next to you after

EXERCISE... ONE MORE

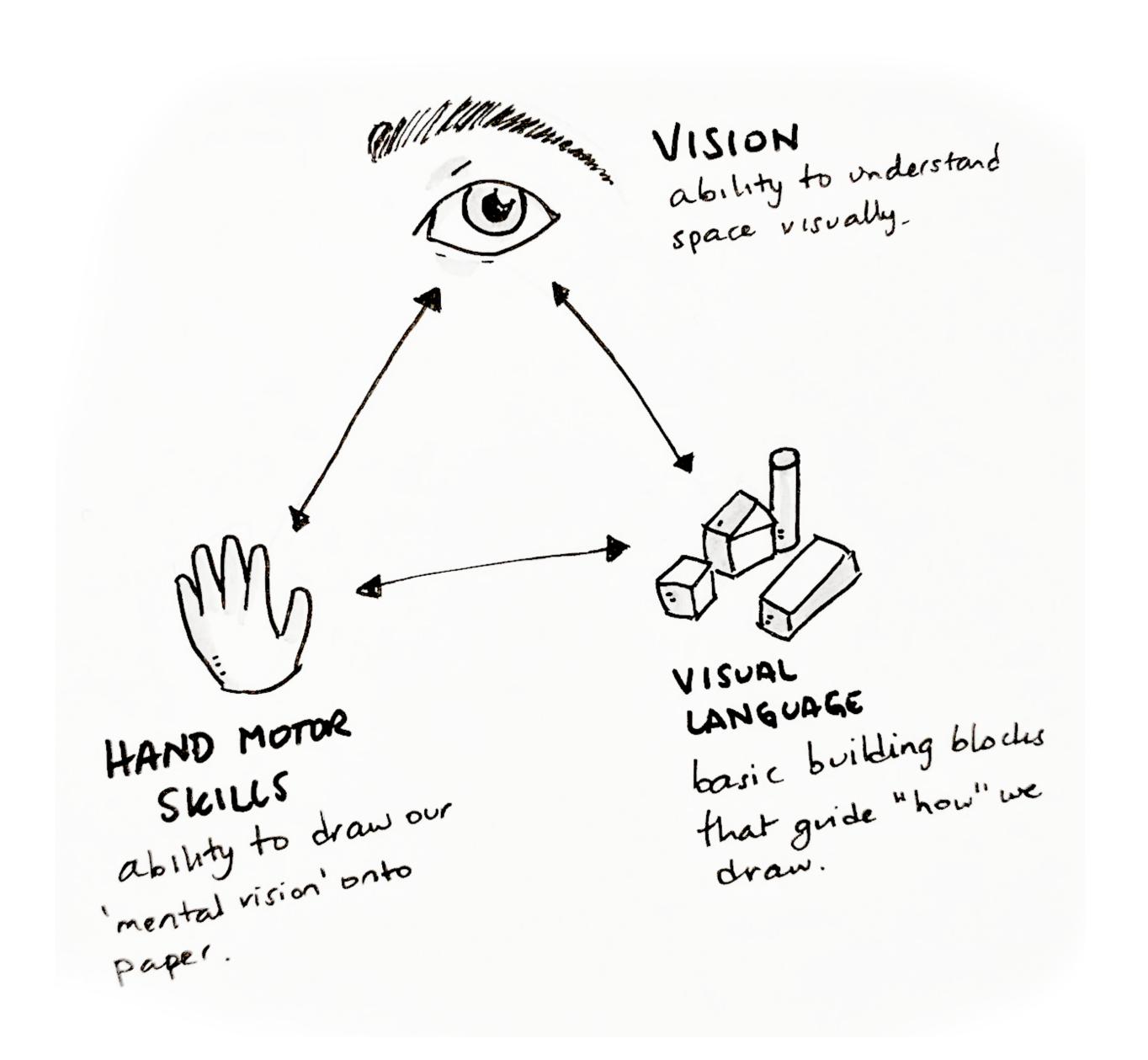
Divide your page into 4 parts

Label each part - 2 min, 1 min, 30 min, 15 sec

You will draw... YOURSELF

SKETCHING = THINKING

THE PARTS TO DRAWING



TRAINING YOUR HAND/ARM



Draw page-wide lines, try different directions (avoid chicken scratch)

Draw circles, try different starting points and directions

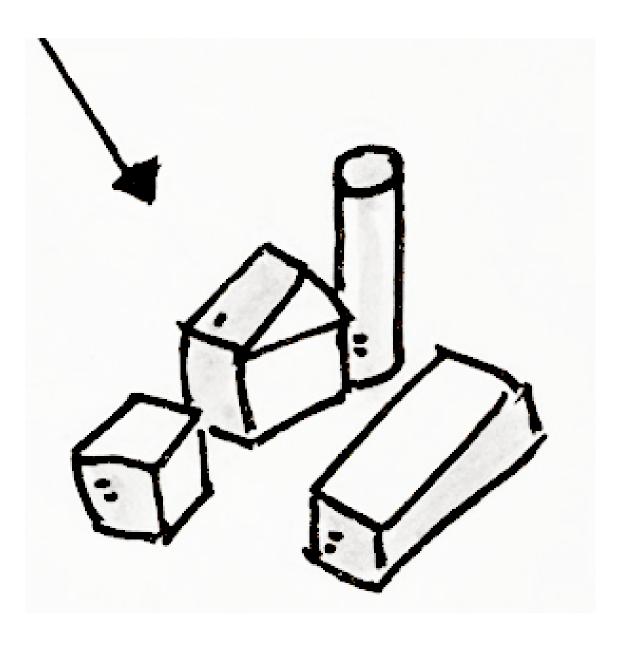
Draw concentric circles, from inside out

TRAINING YOUR EYE

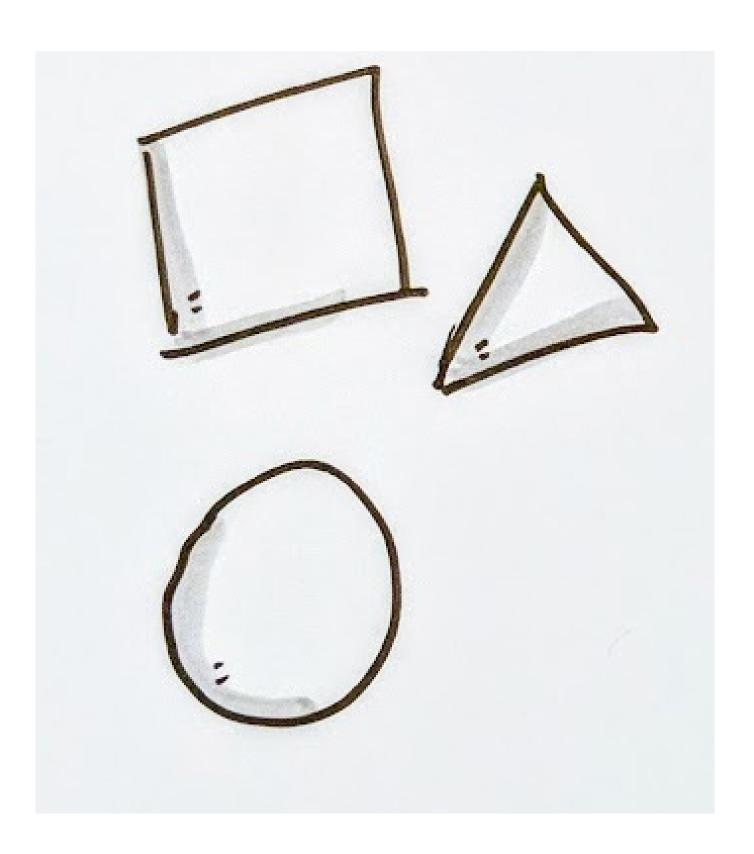


Contour drawing - draw an object near you without looking at the page (3 mins)

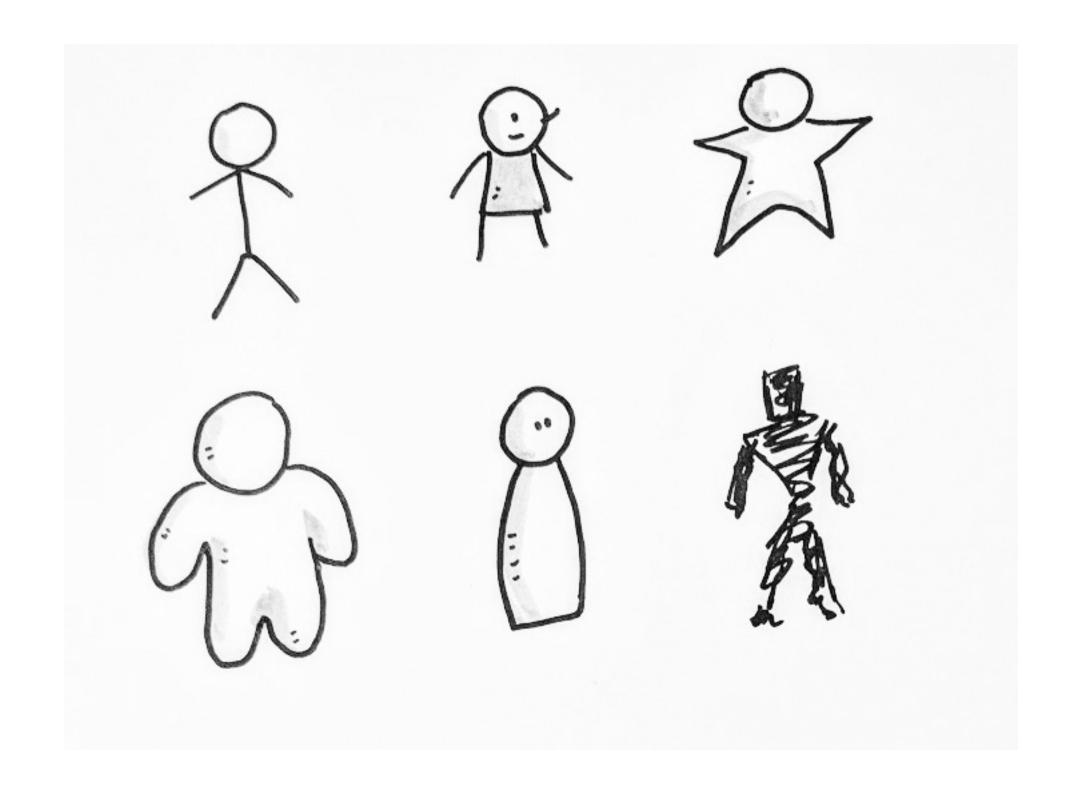
VISUAL VOCABULARY



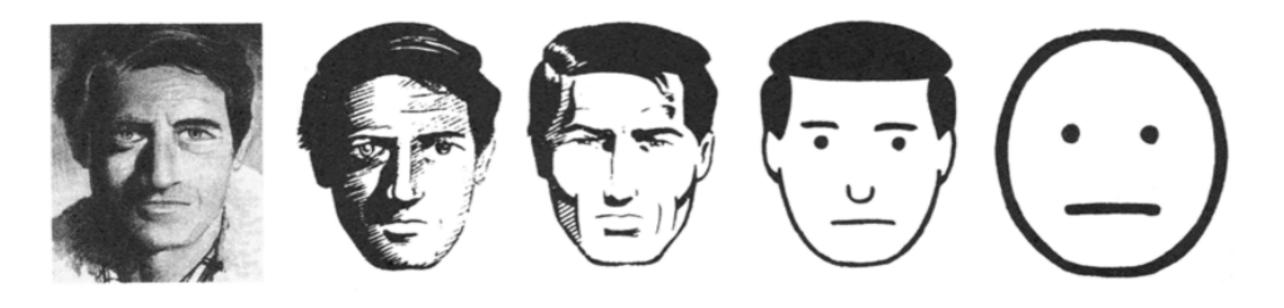
SHAPES



PEOPLE



REALISTIC ----- ABSTRACT



PORTRAIT ------ IDEA

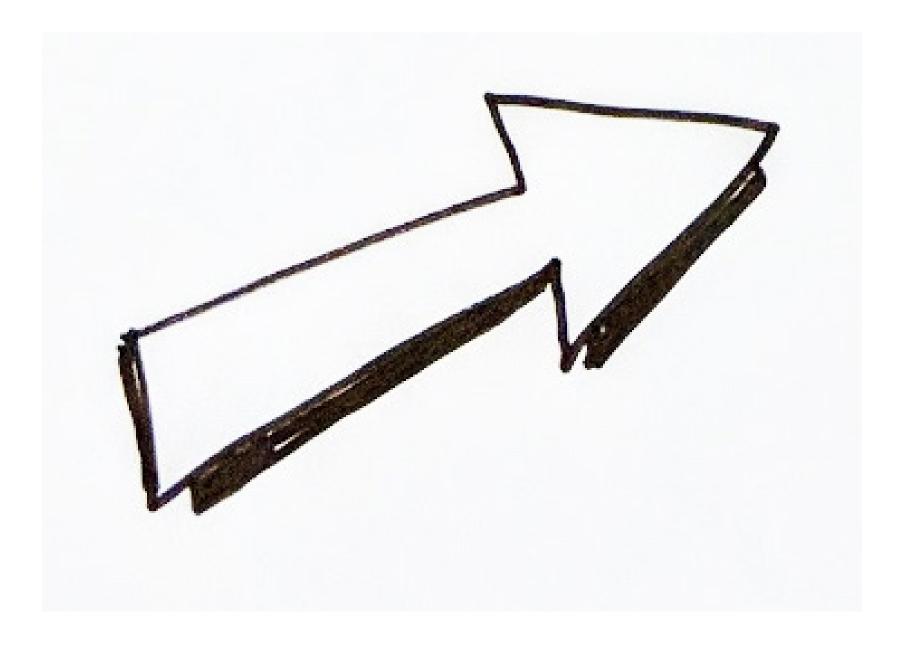
McCloud, S. Understanding Comics

Draw people in 10 different poses running, kicking a ball, eating pizza, etc.

HANDS



ARROWS



LABELS



In the next 2 minutes -

Draw a dinosaur named Oswald with an eyepatch

Draw an umbrella with a hole in it

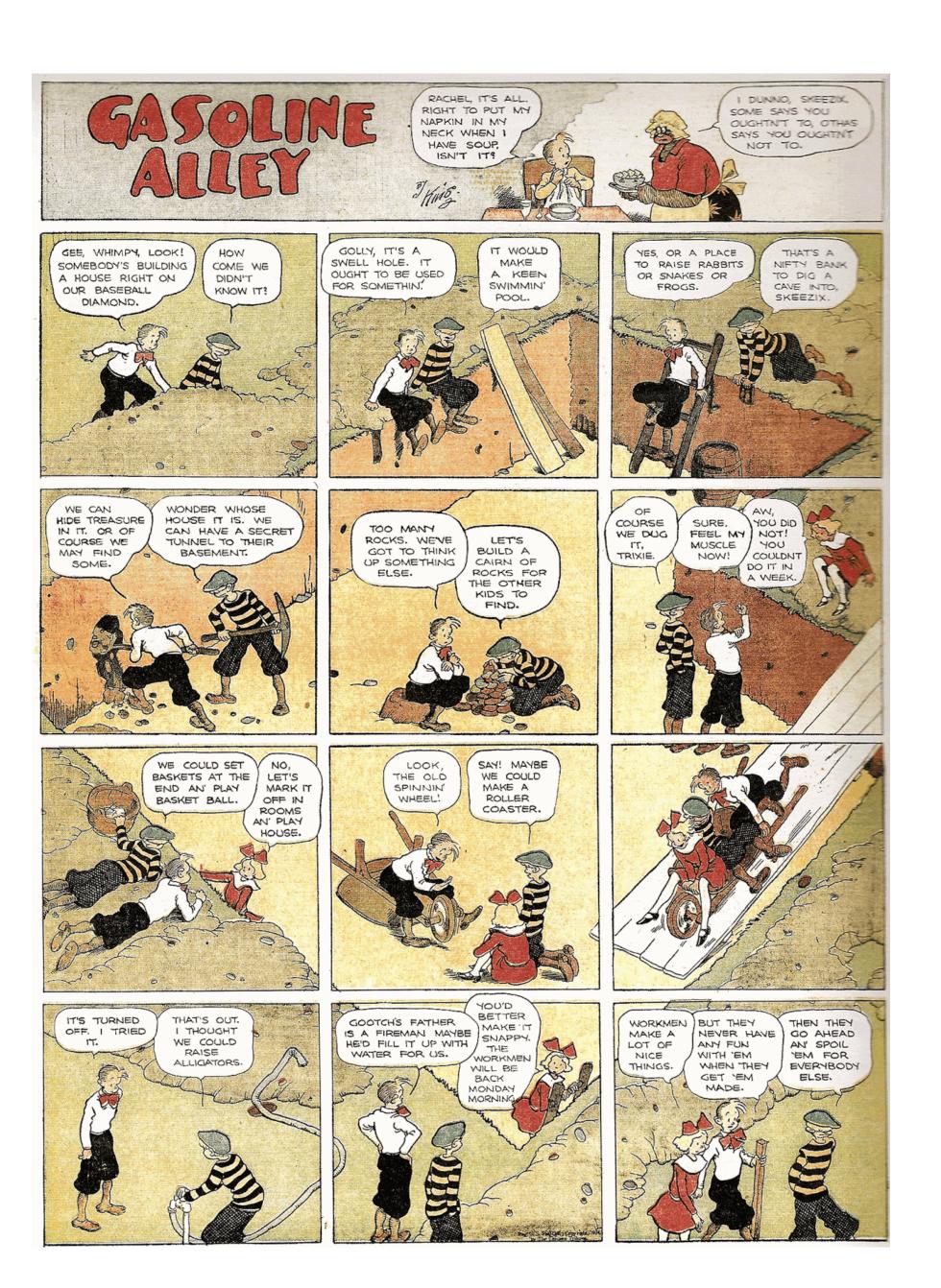
TIME = SPACE



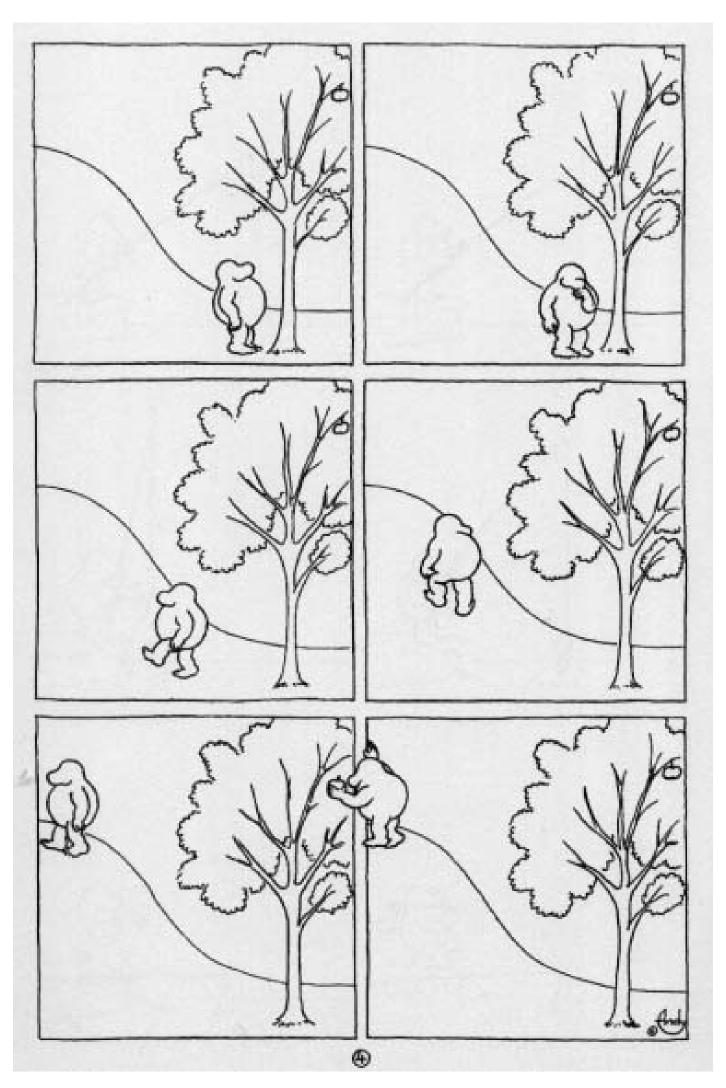
Here (Richard McGuire)



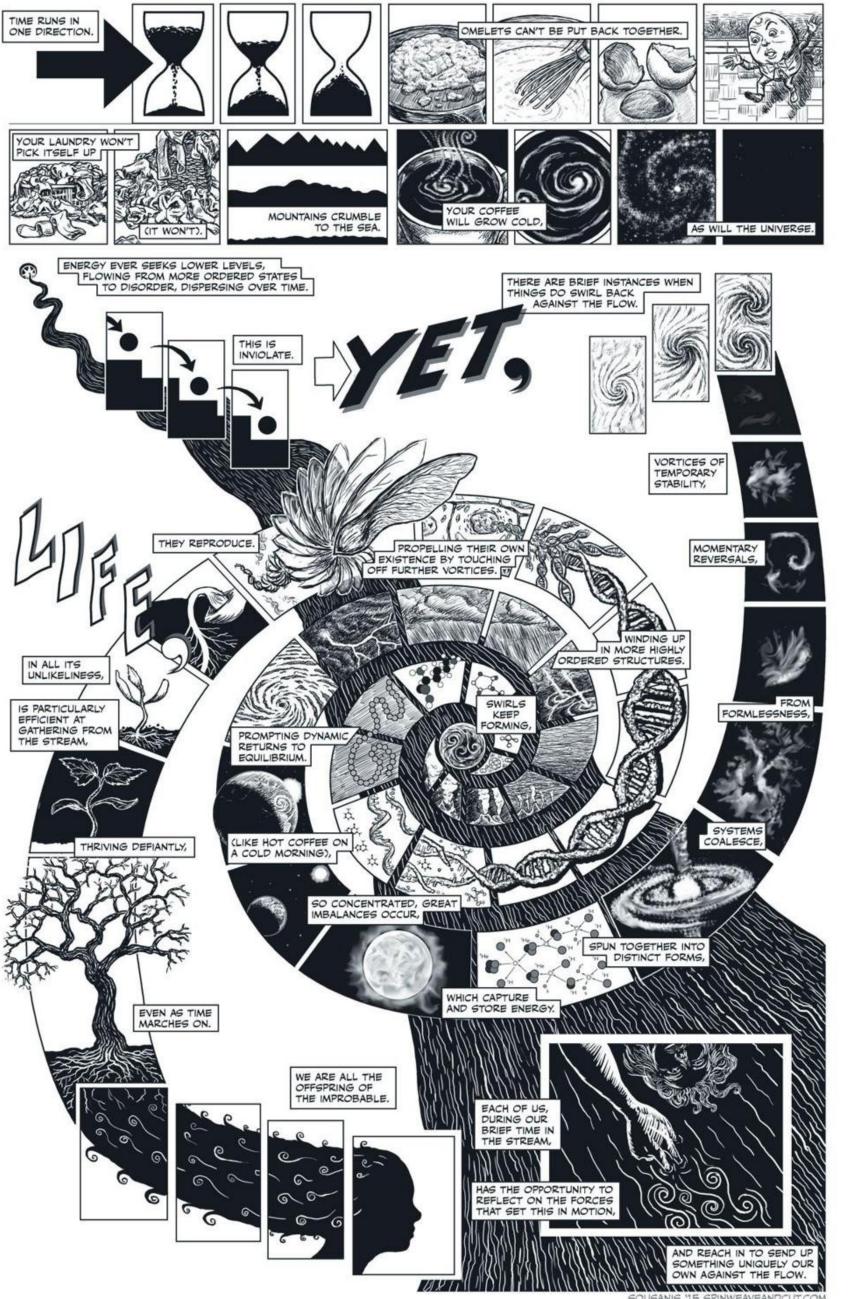
Here (Richard McGuire)



Frank King



Andy Bleck



Sousanis (2015)

GRIDS AND GESTURES

Look at the grid-like patterns around you - their rhythm

Using just lines, marks, shapes, draw the shape of your day – yesterday, today, any day...

If you're brave #gridsgestures

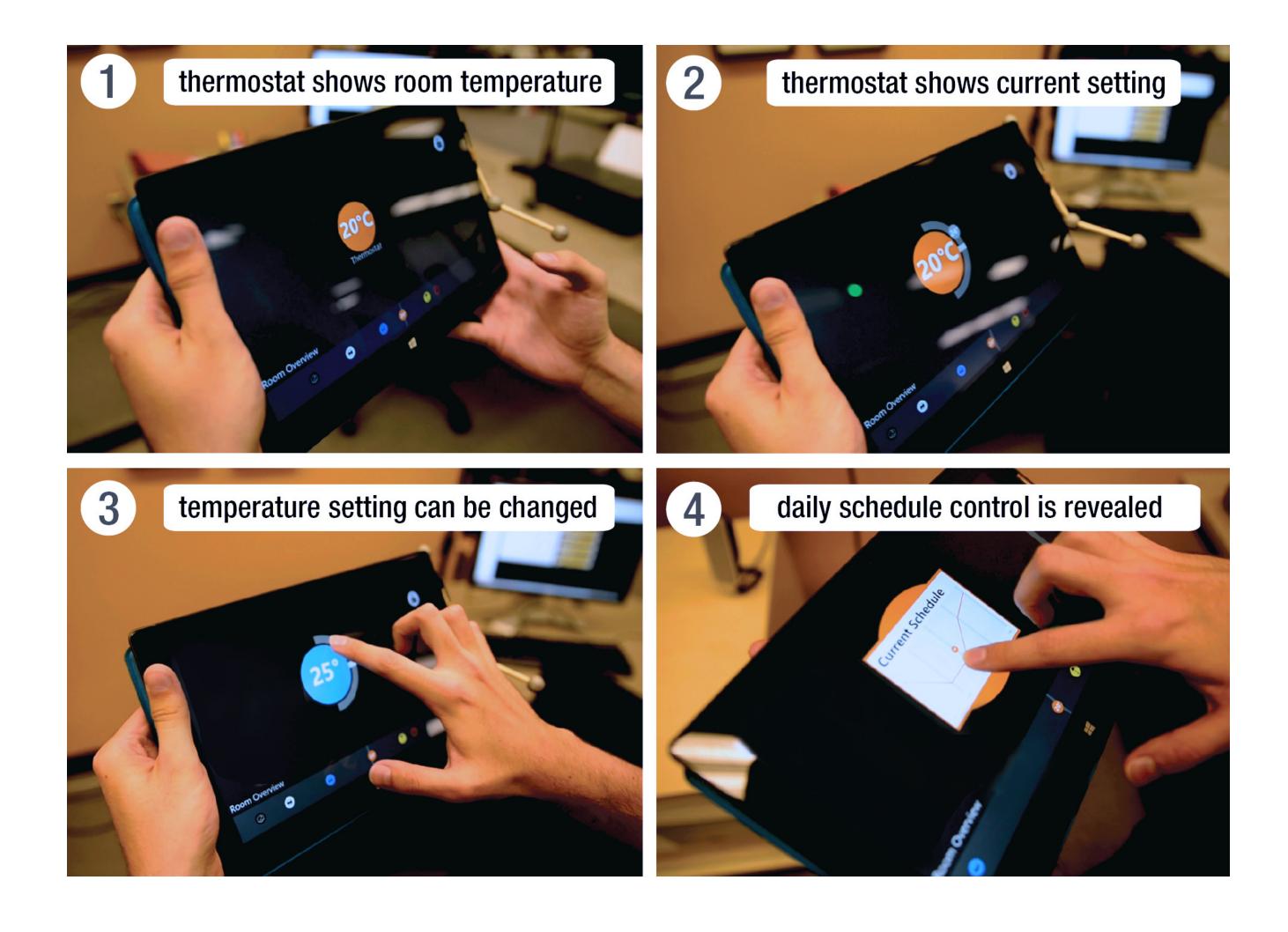
(10 mins)

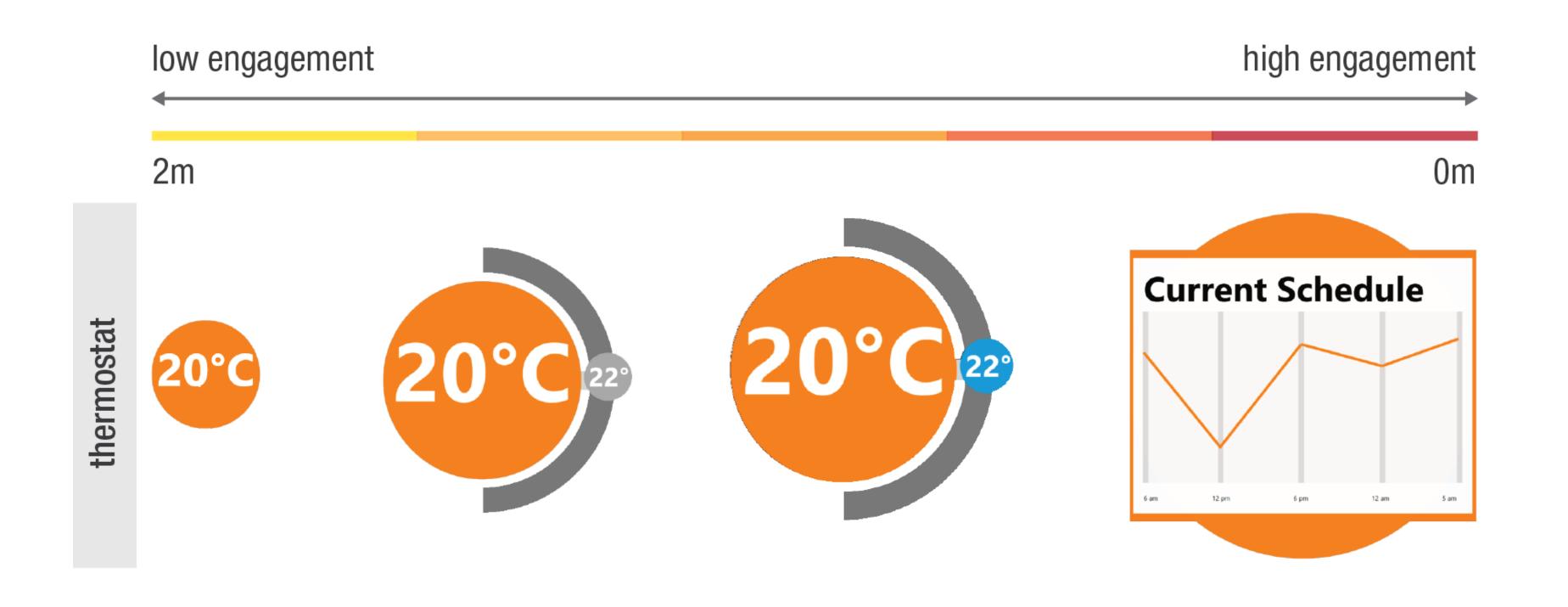
EXAMPLE - MSc (2012-2014)

Using physical proximity to interact with a thermostat

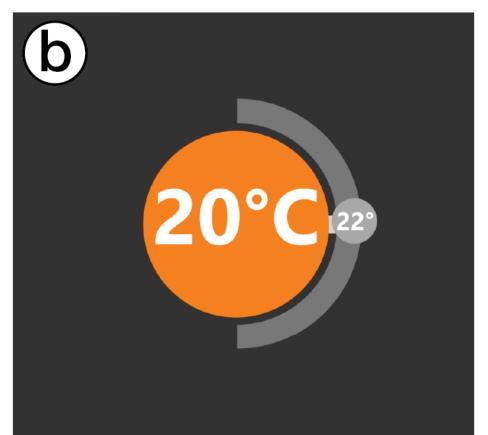
- Try describing it visually

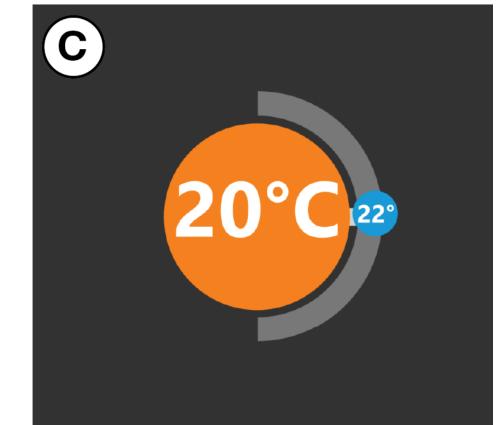


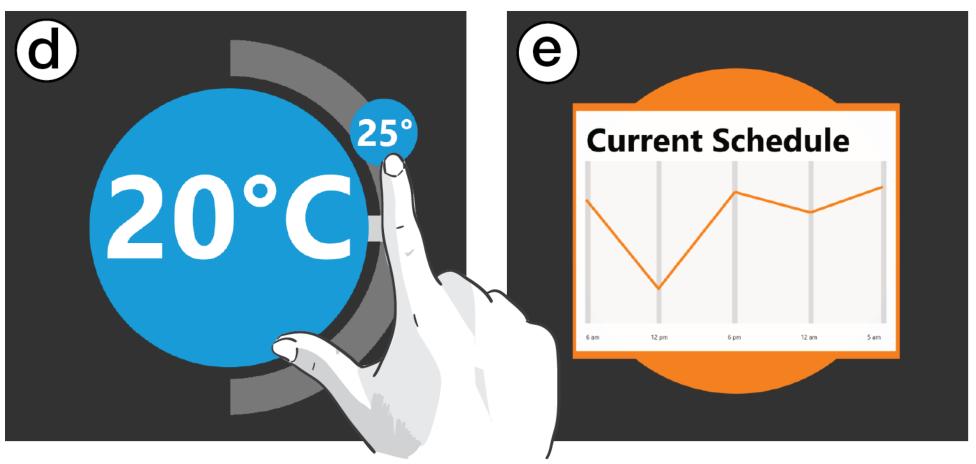


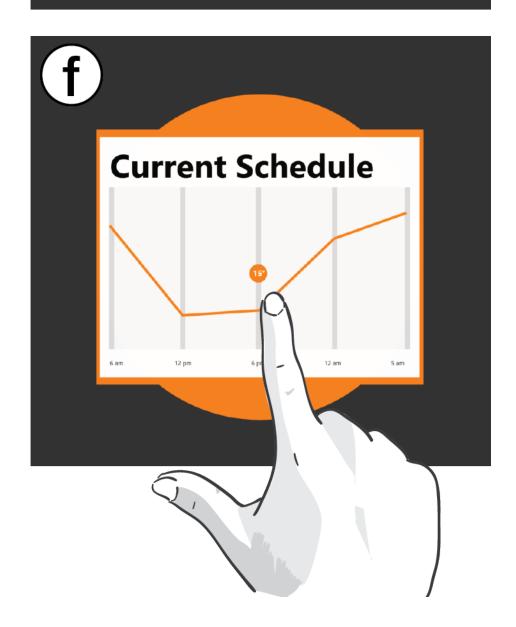




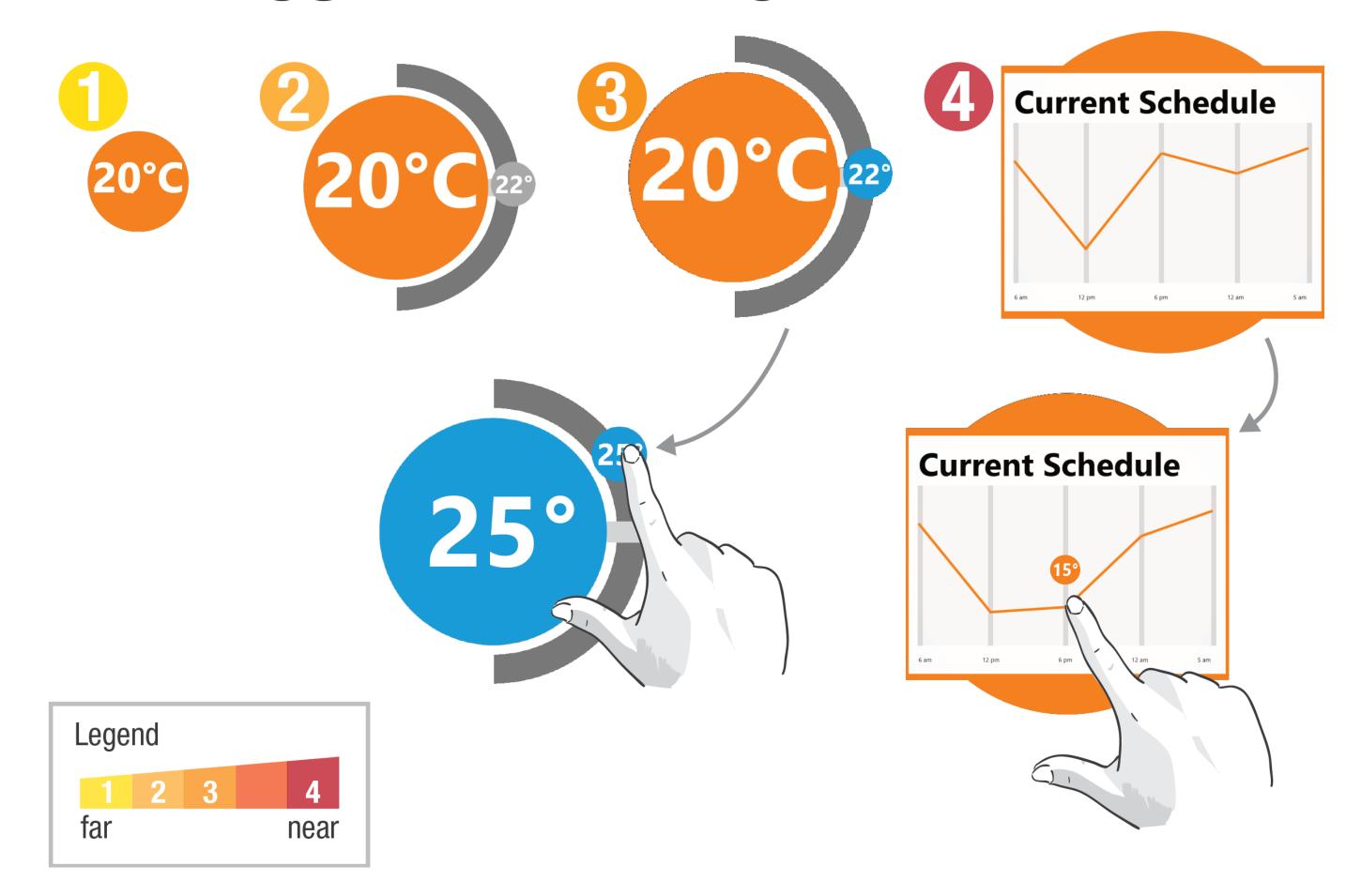


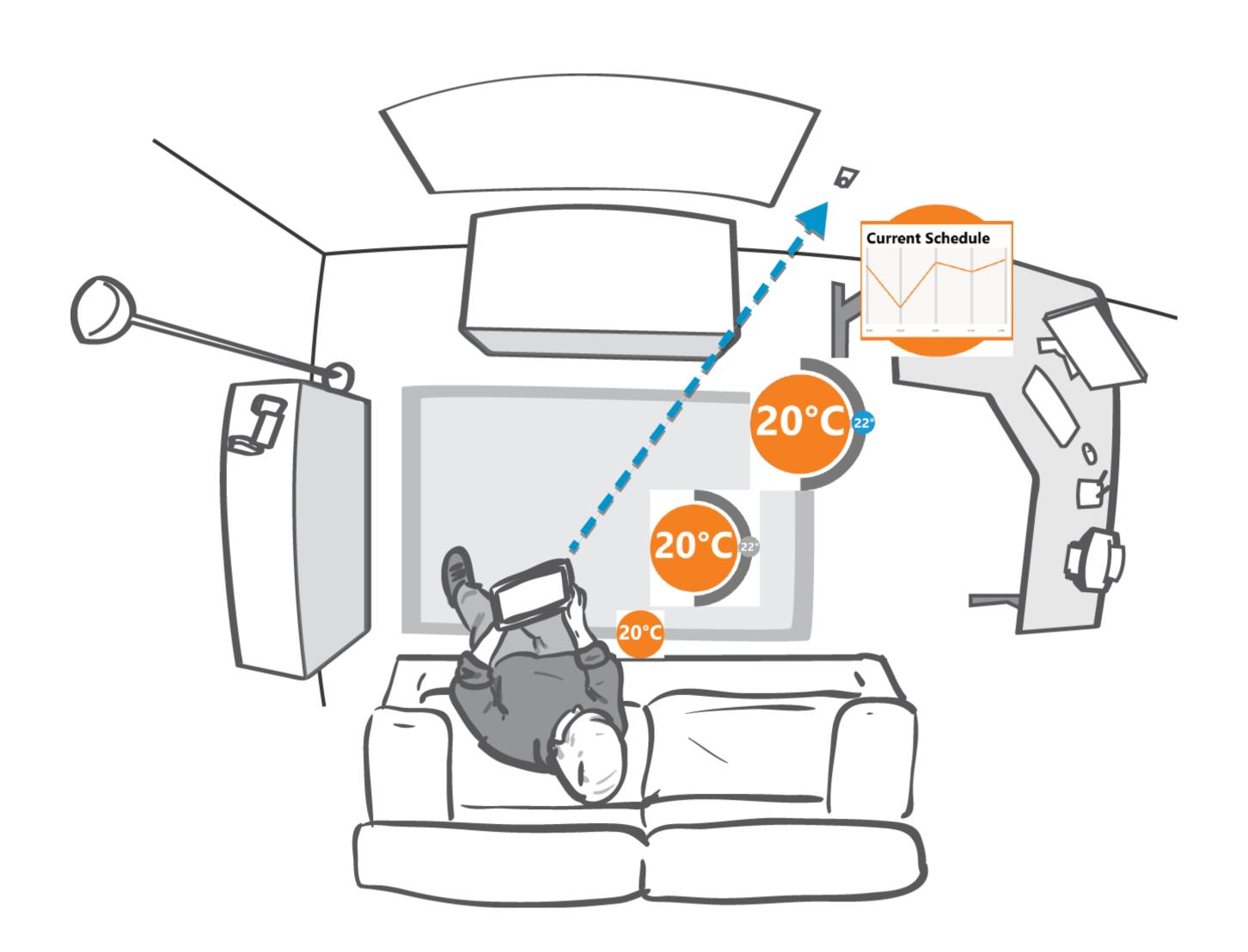






THERMOSTAT INTERFACE



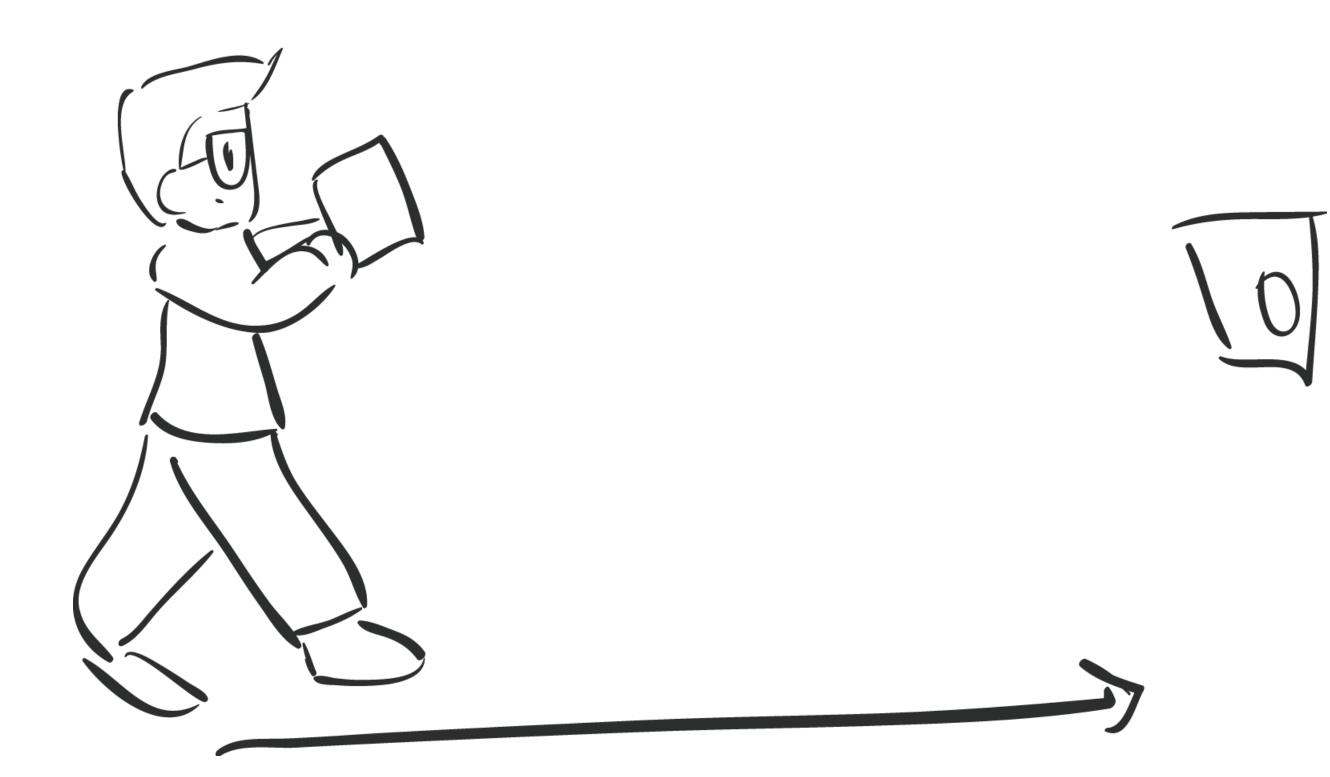


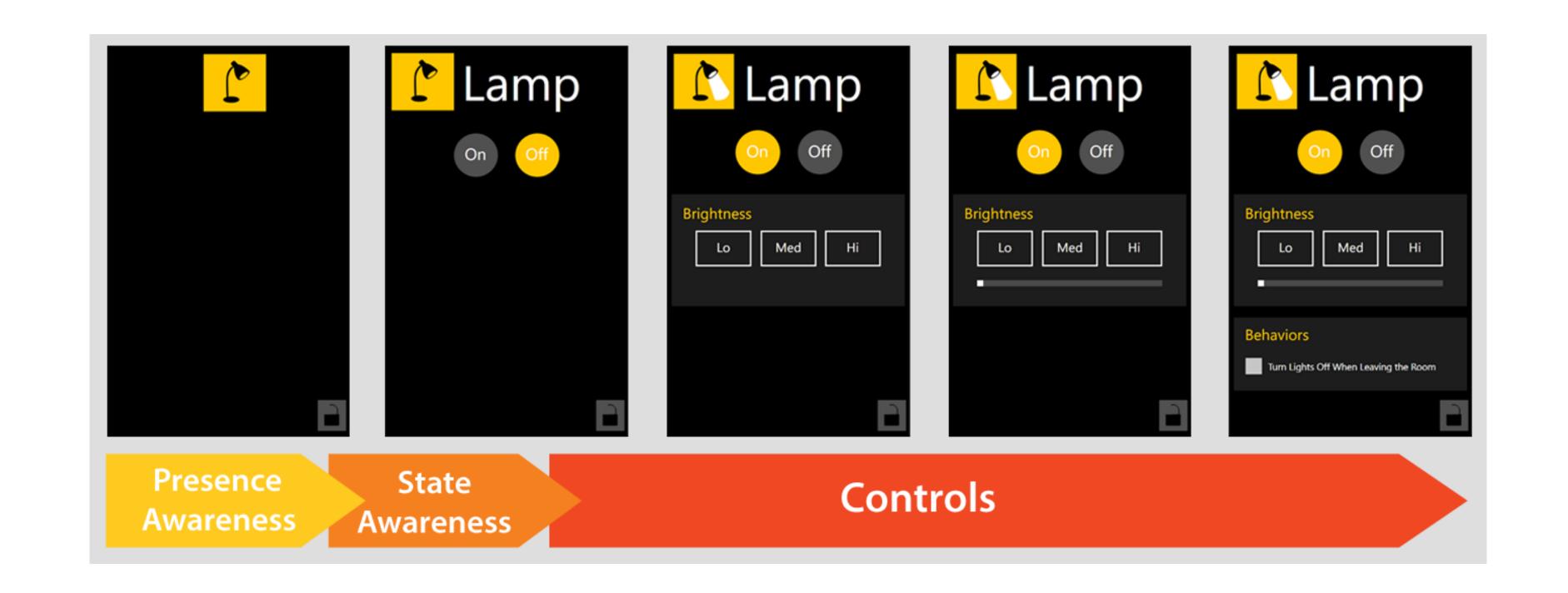


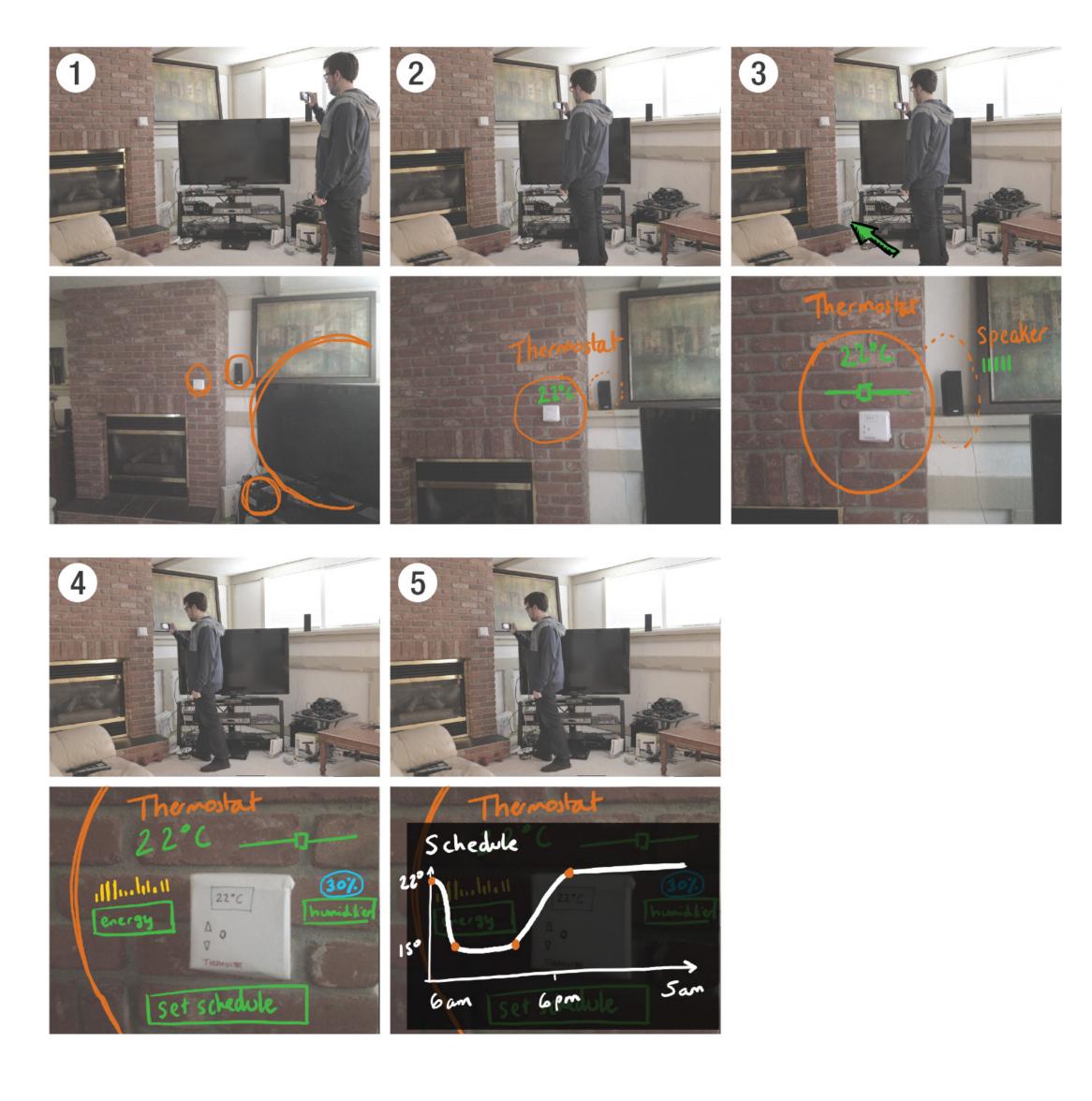












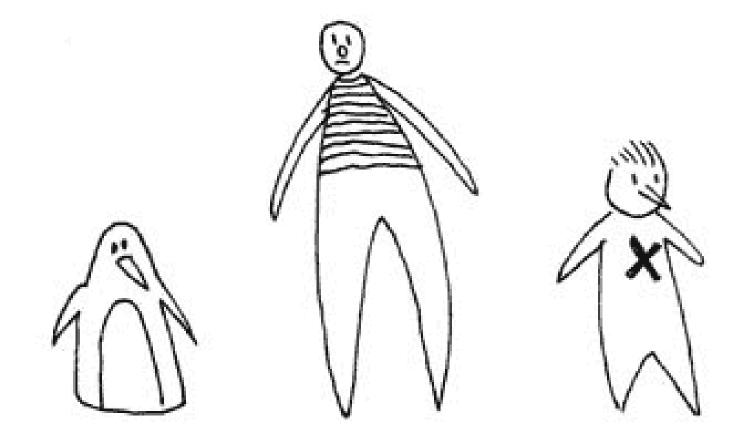
VISUAL INTERPRETATION

PANEL LOTTERY

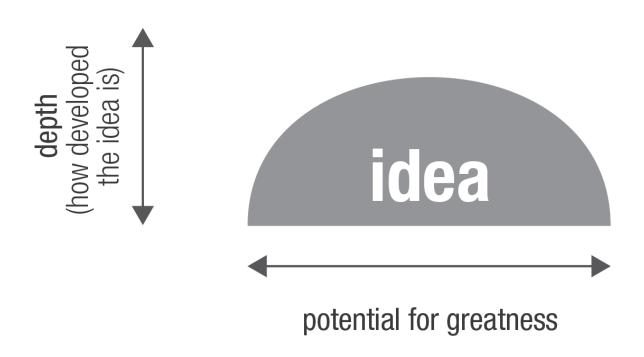
Draw a few random comic panels (one panel per sheet)

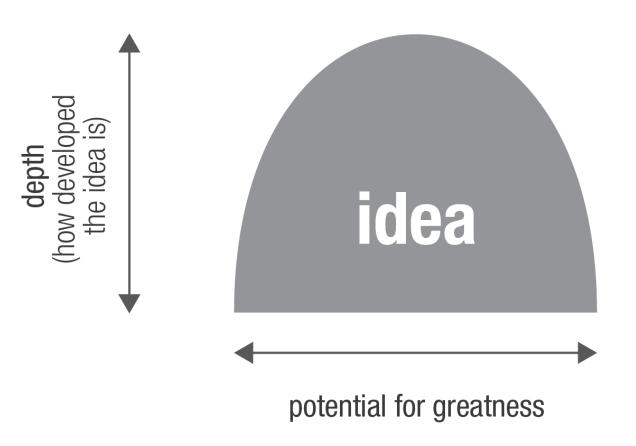
Use one of these characters: Pingüino, Lucky, Kriss Kross

Then... we shuffle

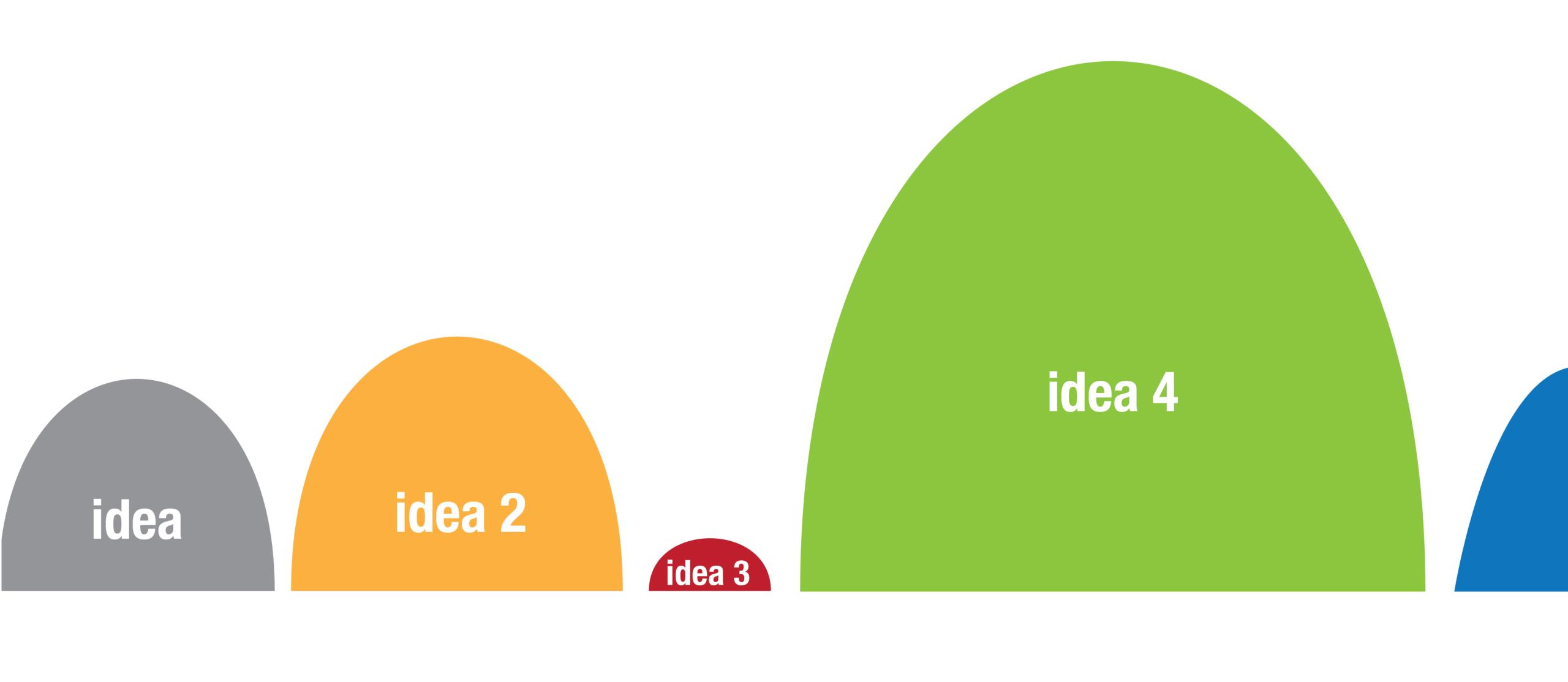


SKETCHING IS DESIGN THINKING





The resulting design can only be as good as the idea



"Getting the design right versus getting the right design"

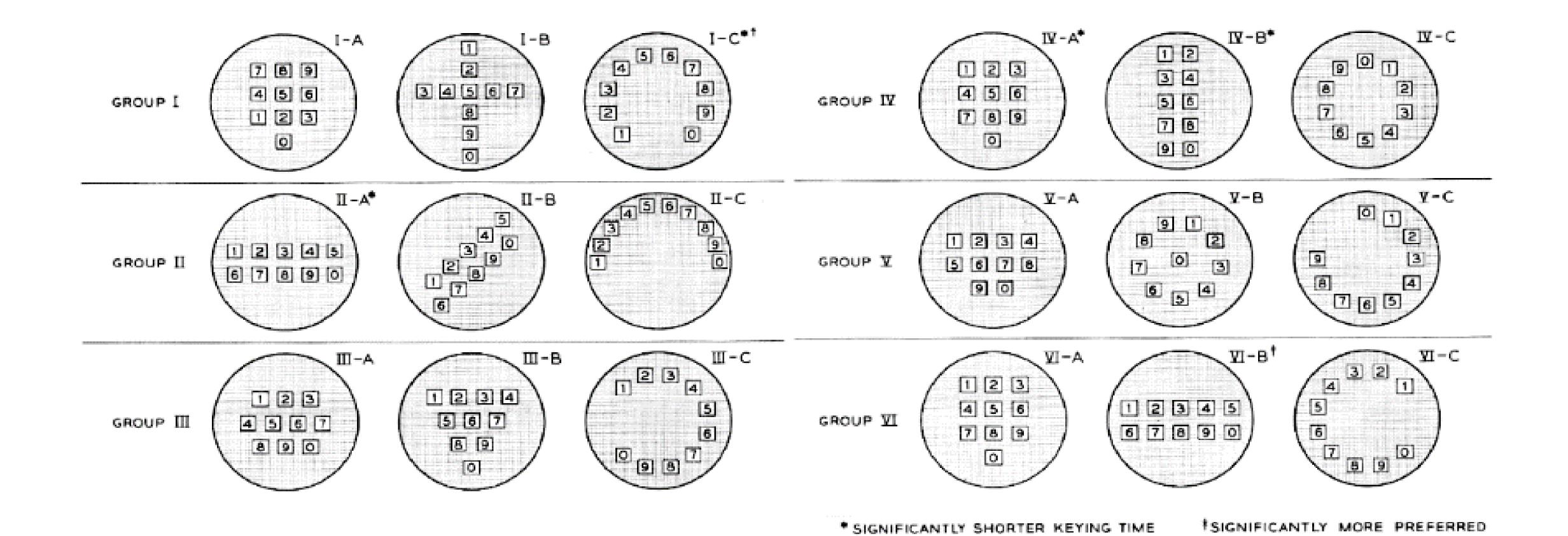
- Bill Buxton

First get the right design, then focus on getting that design right.

An example...

TELEPHONE LAYOUTS

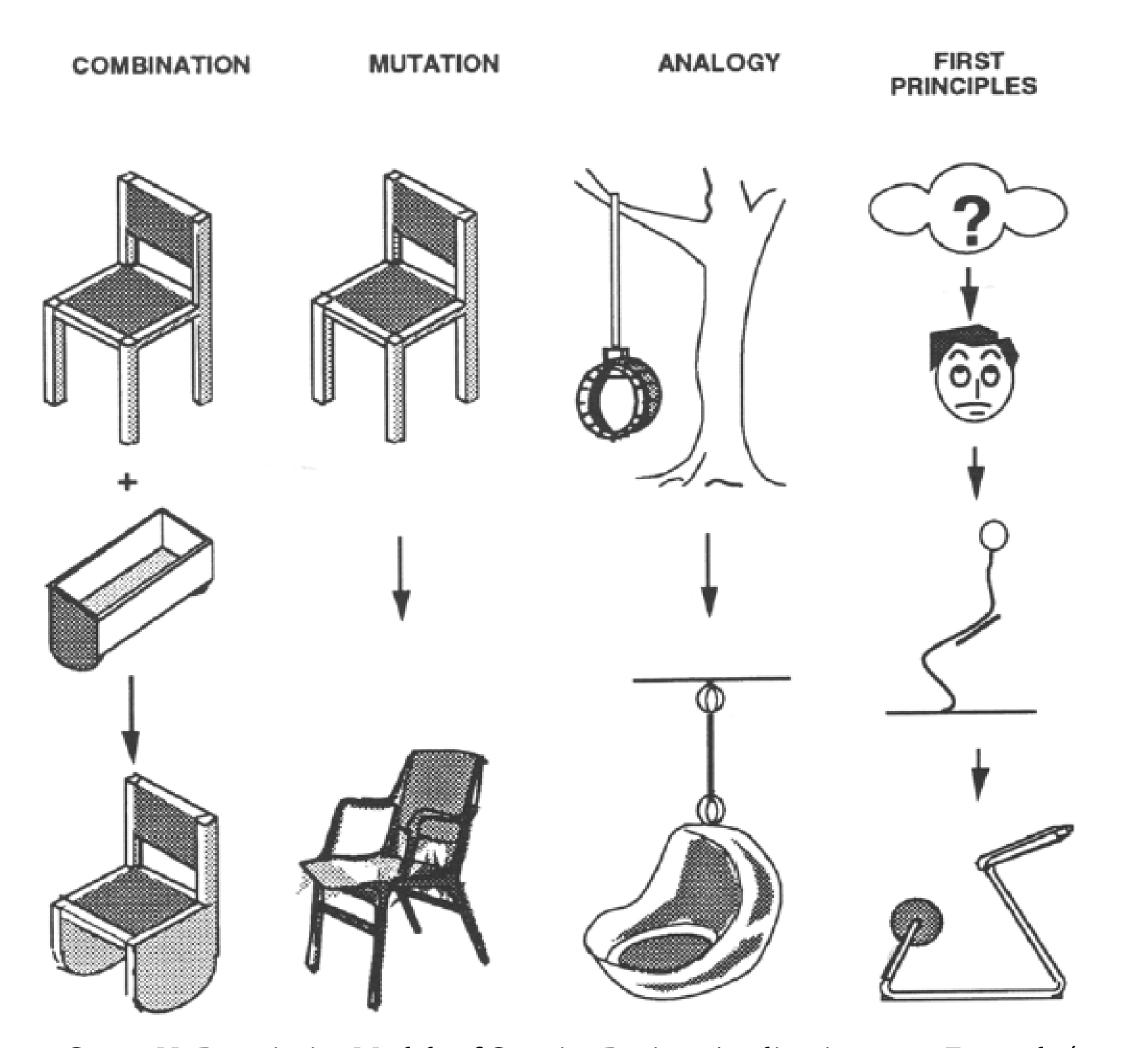
Deininger, R. L. – "Human Factors Engineering Studies of the Design and Use of Pushbutton Telephone Sets", 1960.



† SIGNIFICANTLY LOWER ERROR RATE

ARRANGEMENT	KEYING TIME (SECONDS)	PER CENT ERRORS	RANKING FOR	RANKING AGAINST
1 2 3 4 5 6 7 8 9 0 THREE-BY-THREE PLUS ONE	6.01	2.5	3RD.	2ND
1 2 3 4 5 6 7 8 9 0 TWO HORIZONTAL ROWS	6.17	2.3	1ST (MOST)	4TH
1 2 3 4 5 6 7 8 9 0 TWO VERTICAL COLUMNS	6.12	1.3	5TH (LEAST)	1ST (MOST)
3 2 1 5 6 7 8 9 0 TELEPHONE	5.90	2.0	2ND	5TH (LEAST)
5 6 7 3 8 2 9 1 0 SPEEDOMETER	5.97	3.0	4 TH	ЭRD

Ideas can come from many places, don't be afraid to mix and match

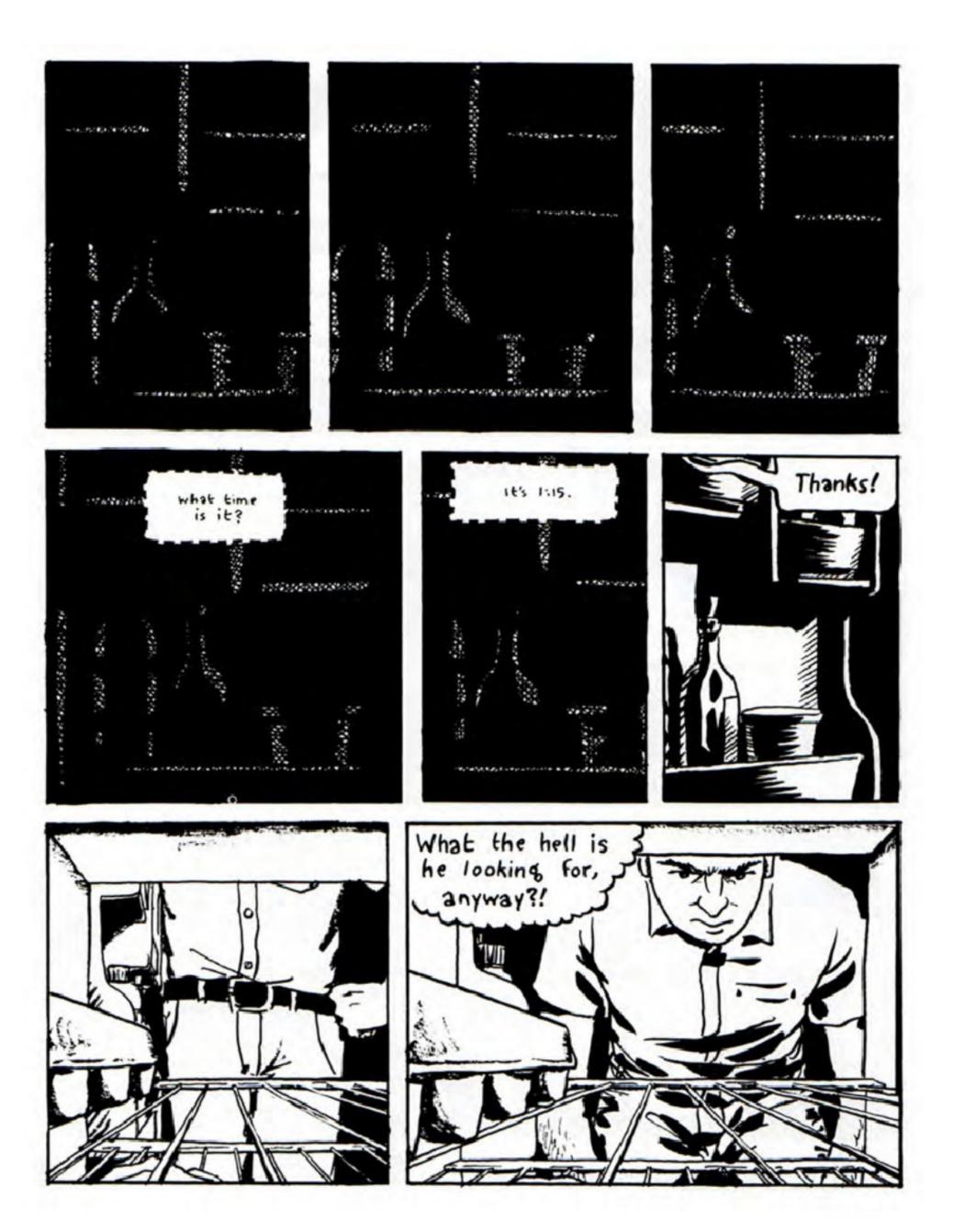


Cross, N. Descriptive Models of Creative Design: Application to an Example (1997)

VARIATIONS

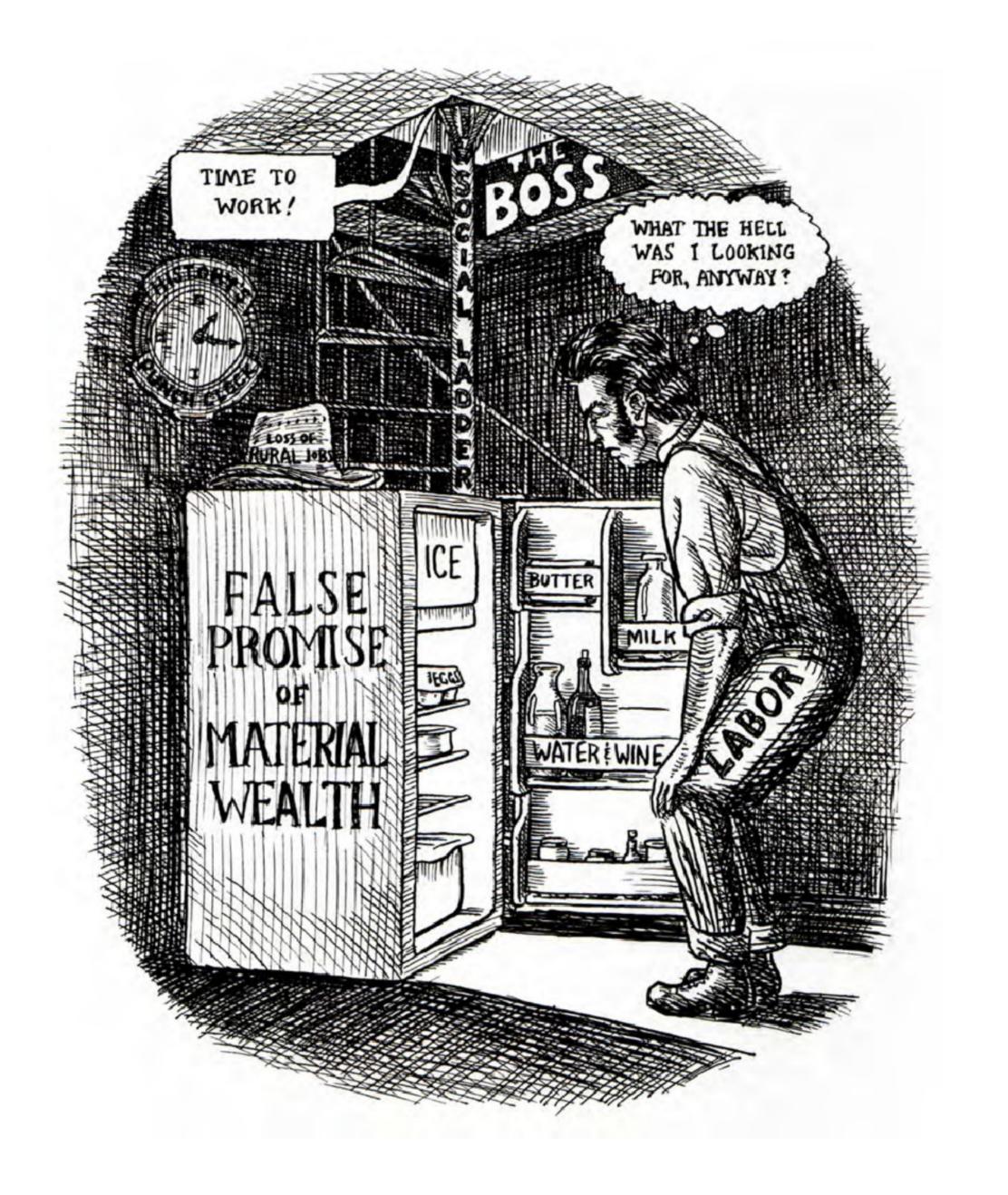


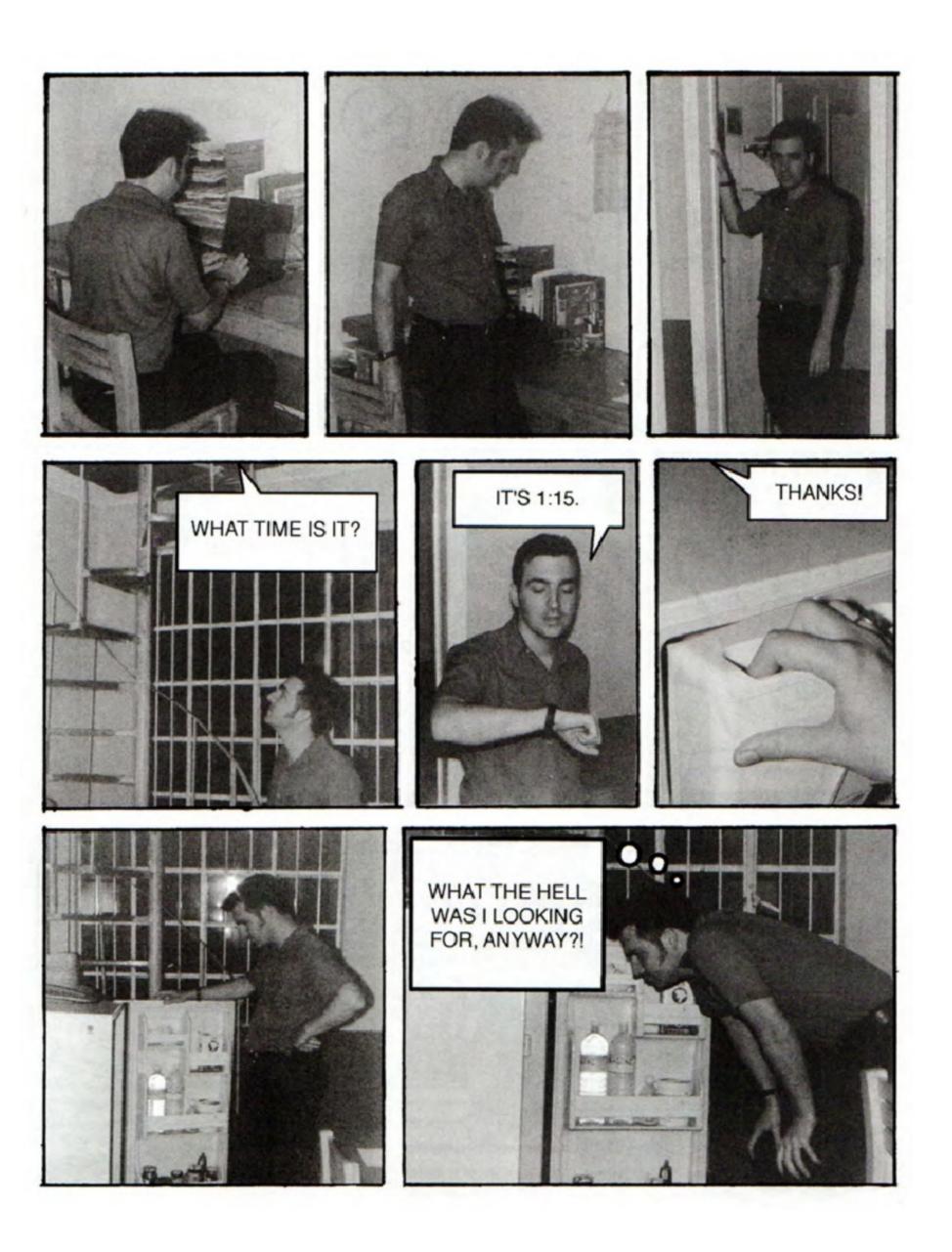




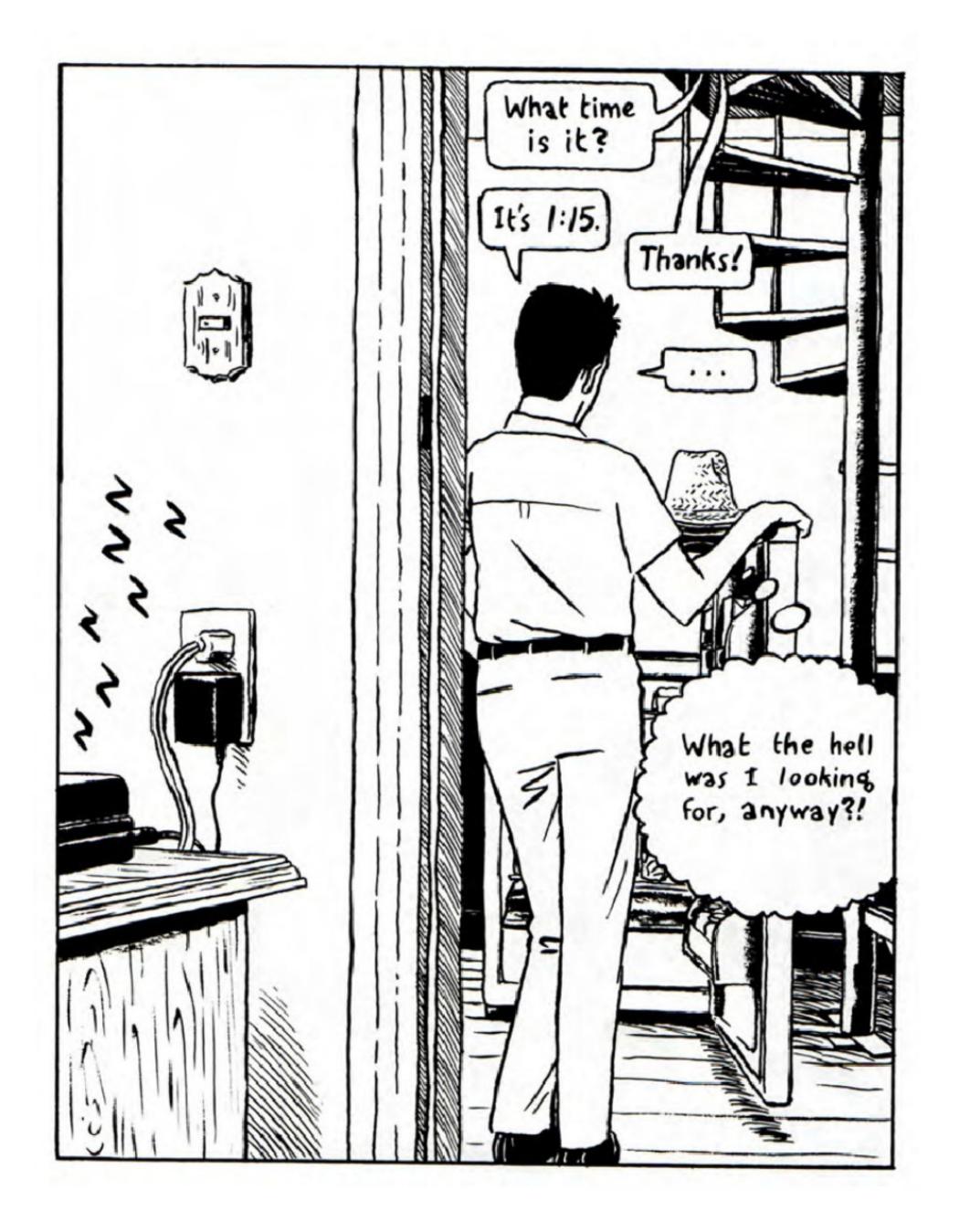


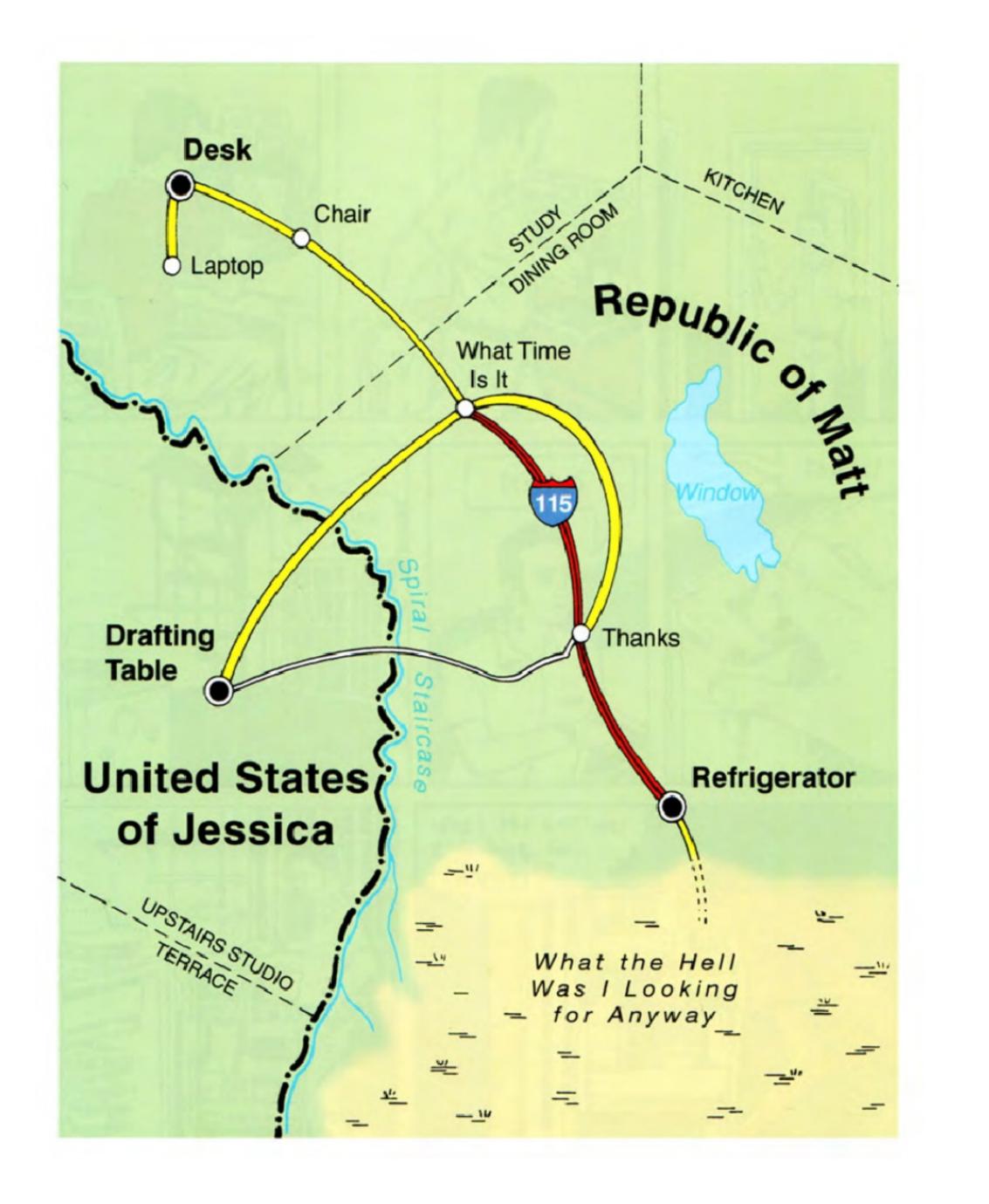












WHAT IS VARYING?

WHAT IS VARYING?

- Narrative
- Layout
- Style
- "Feel"

SLIDE TO UNLOCK

How would you unlock a phone? Try 5 ideas.

SLIDE TO UNLOCK

How would you unlock a phone?

> Using touch + slide

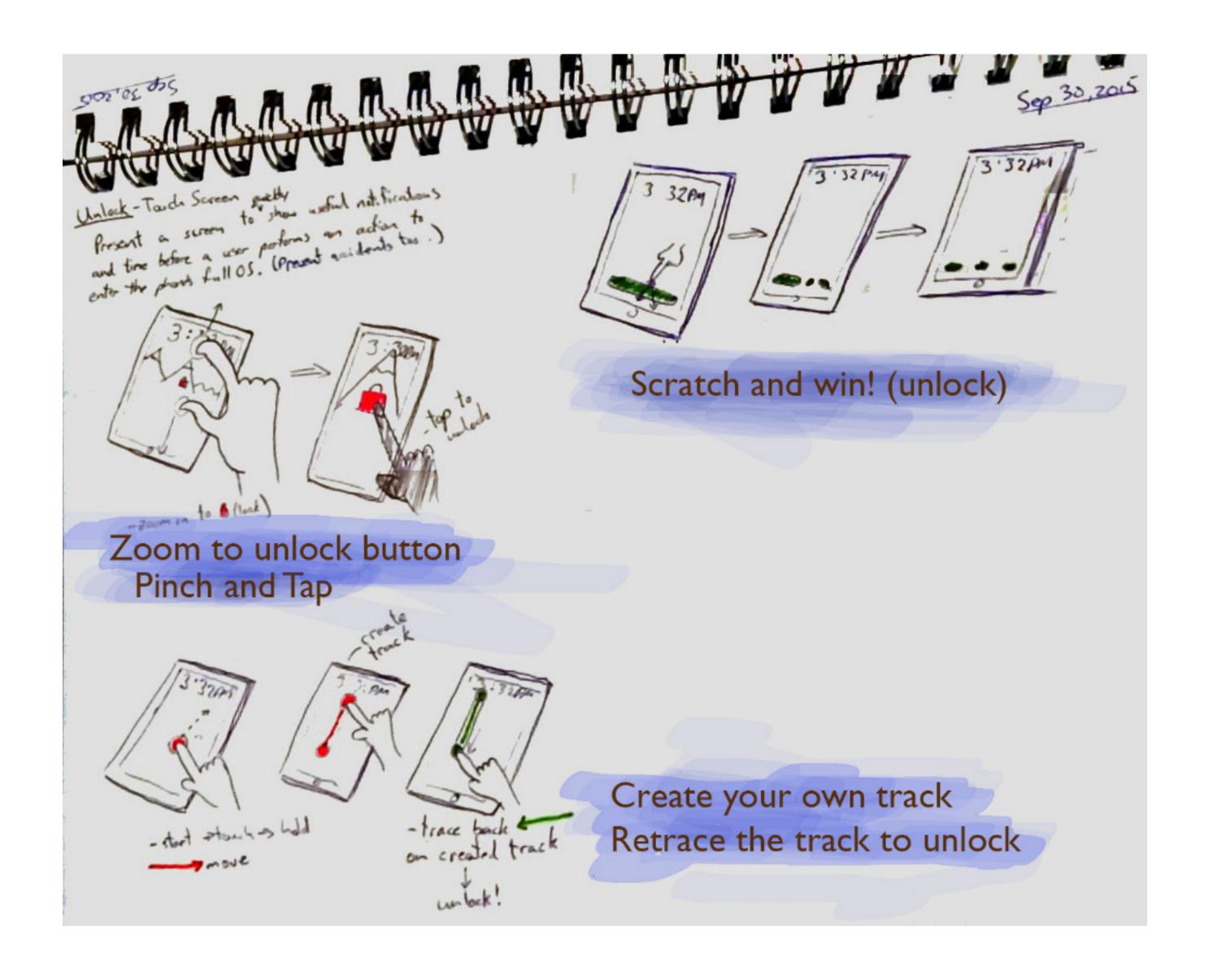
Vary the visuals, how it happens

SLIDE TO UNLOCK

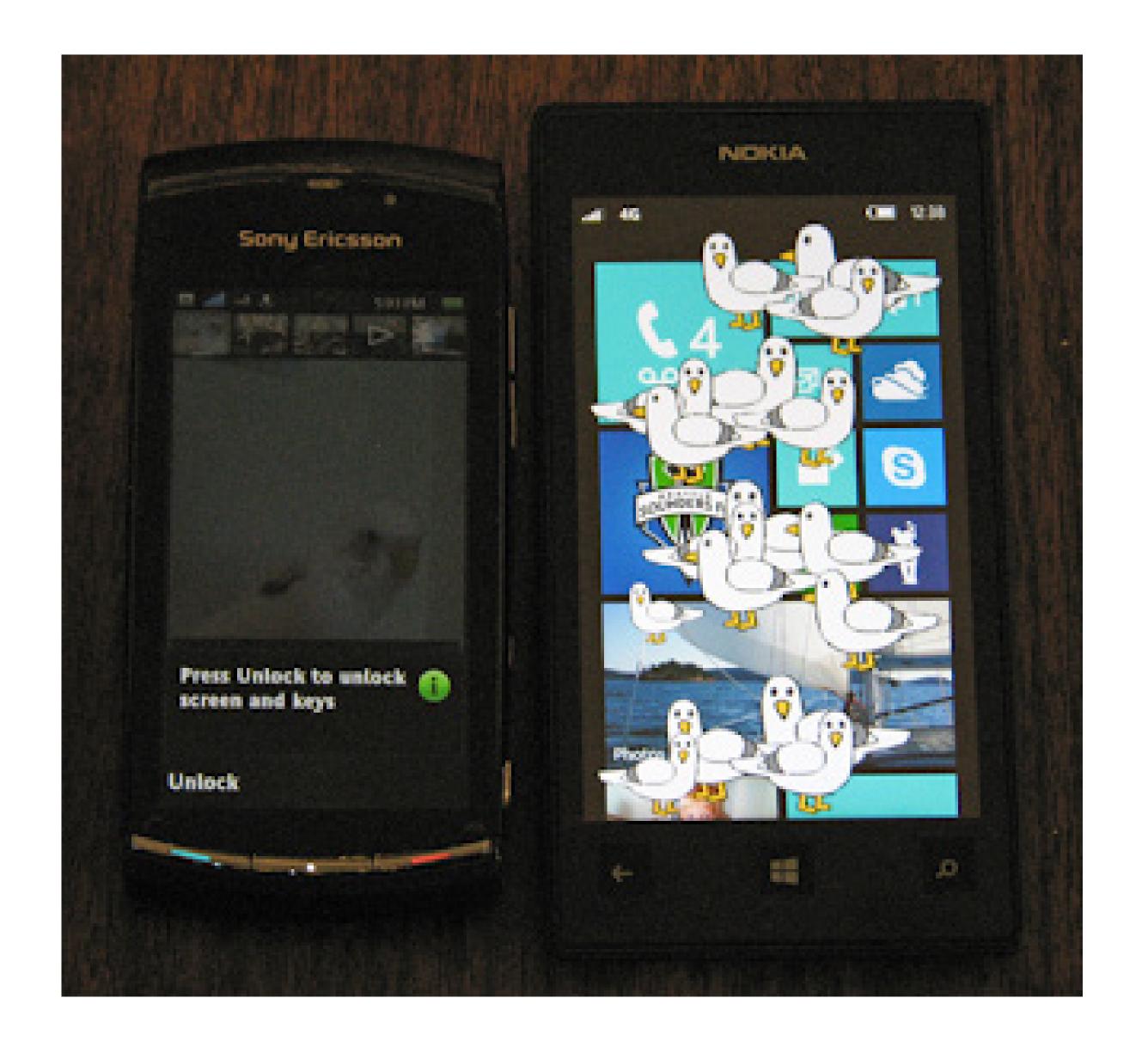
How would you unlock a phone?

> Using sensors: accelerometer, camera, microphone, orientation, magnetic field...

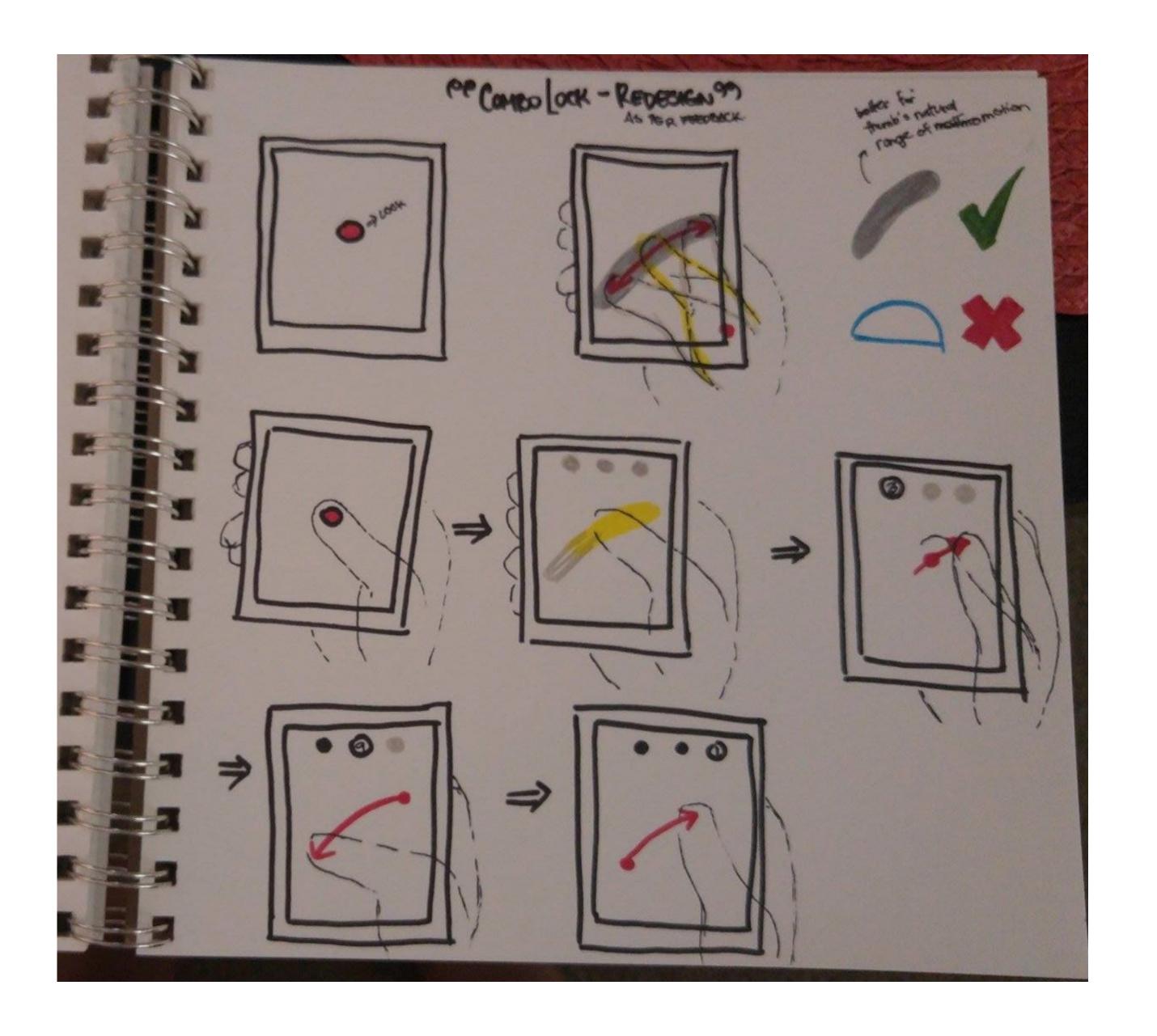
Vary the interaction

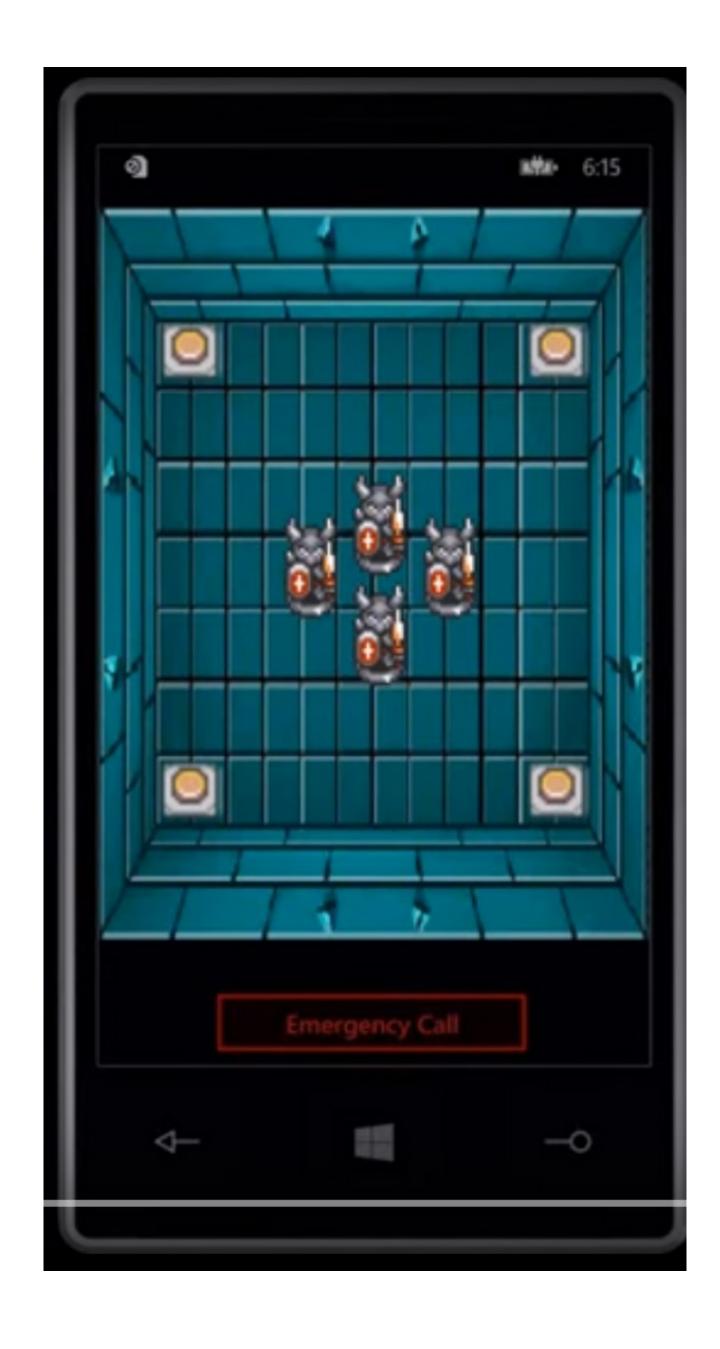




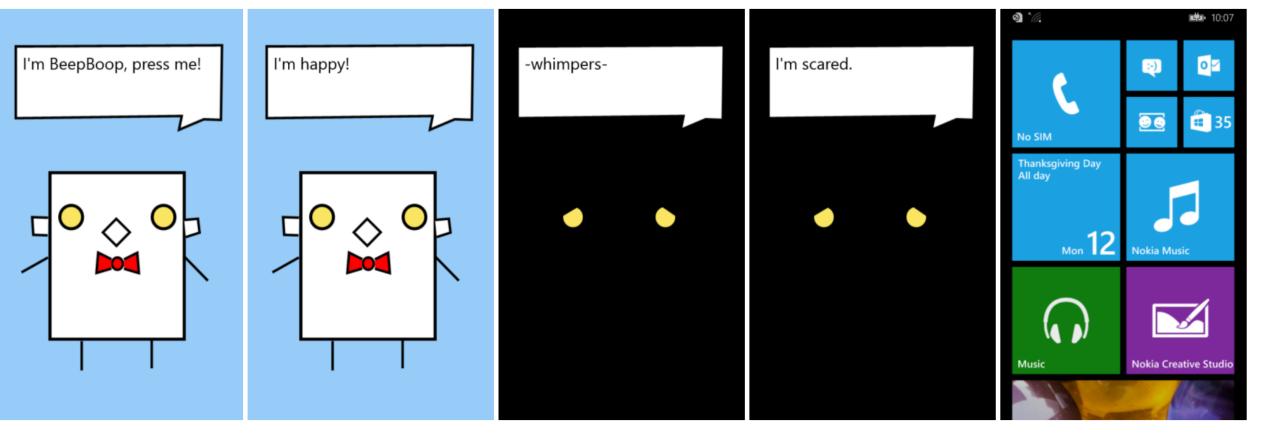


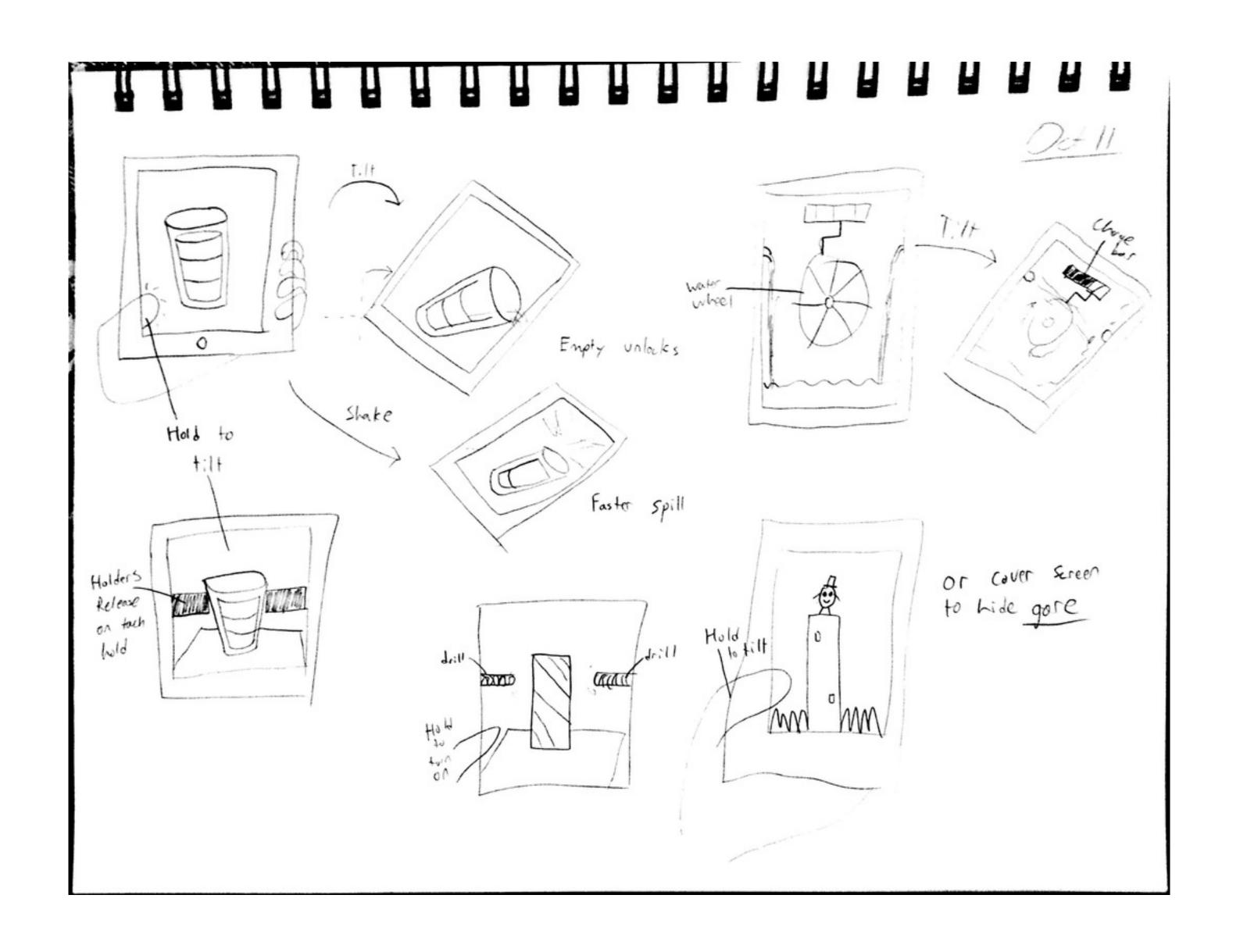


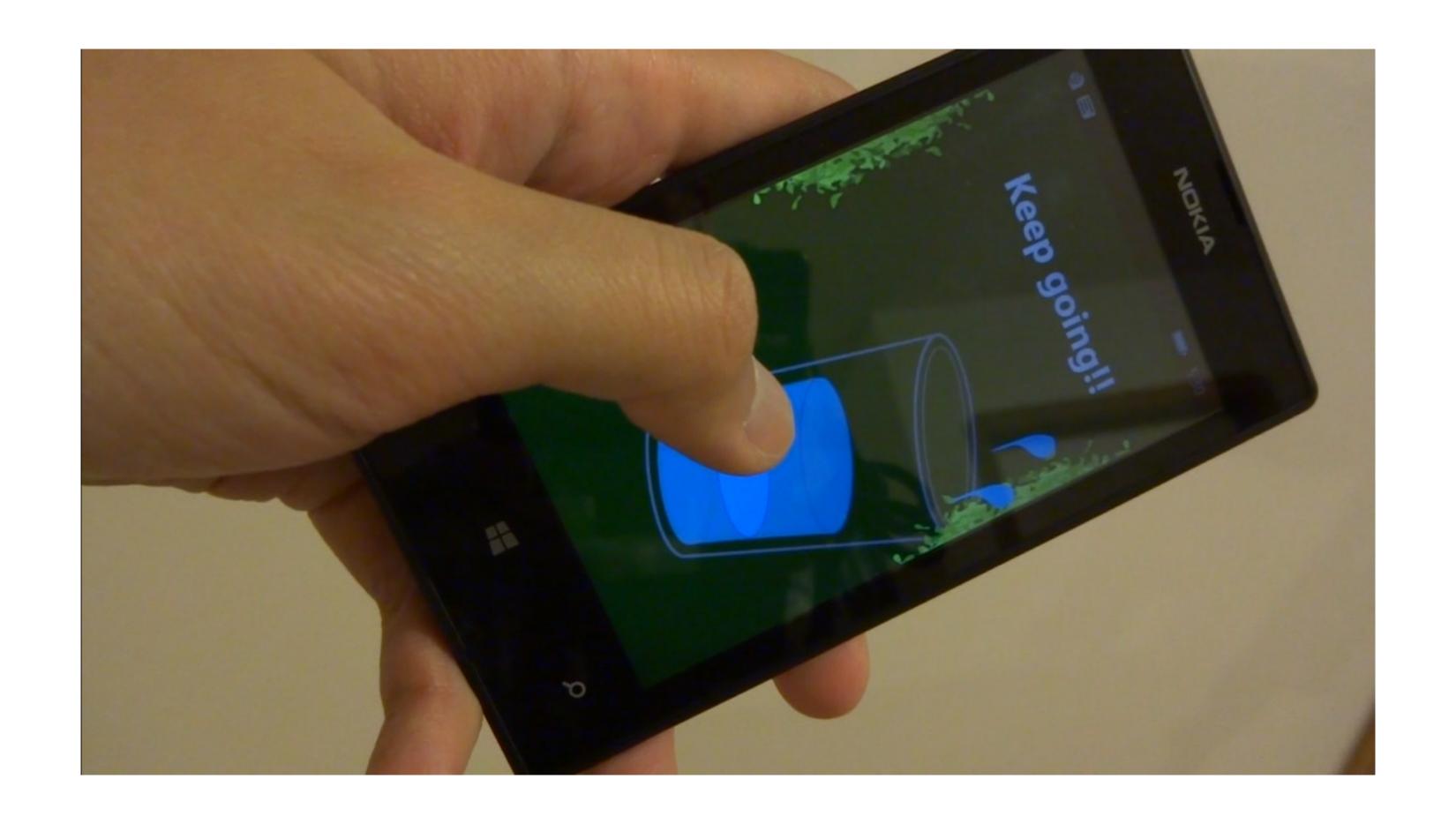












OTHER THINGS TO CONSIDER

MY MATERIALS



Copic Multiliners (0.7 and 1.0)



Blue Pencil

Tombow Dual Brush (different colours + grey)

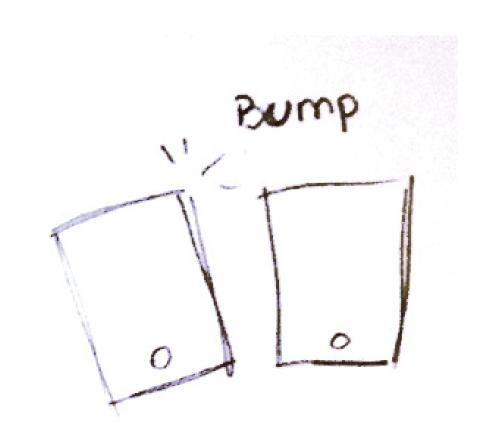


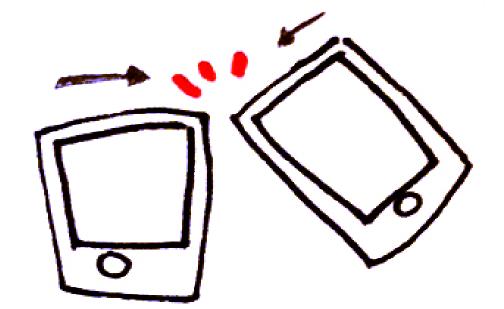
Derwent Coloursoft Pencils



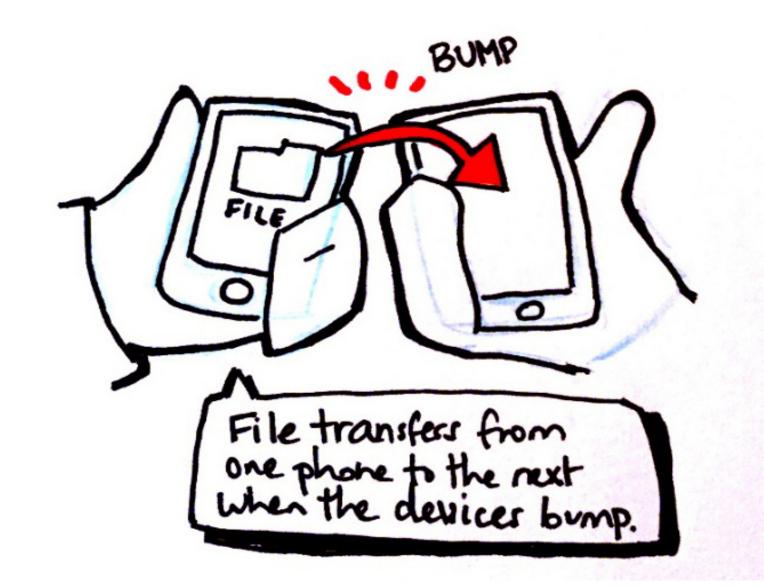
Sharpie Markers (be careful with the paper)

PLAYING WITH STYLES



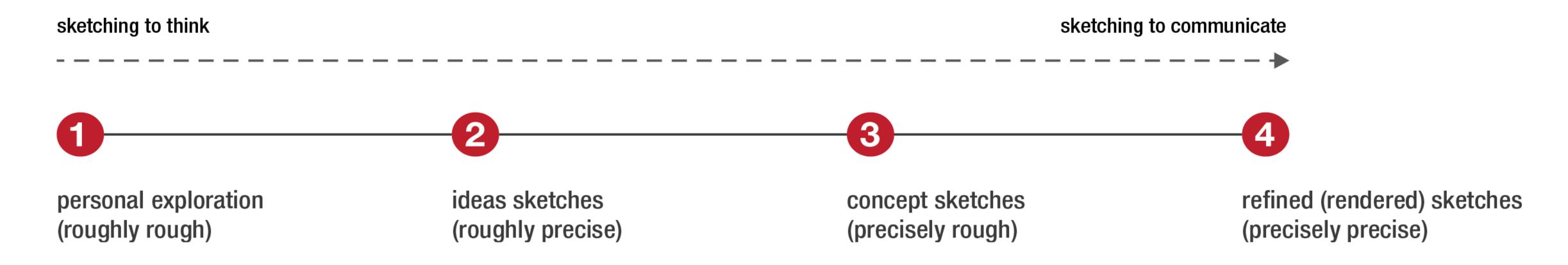


We bump two phones to connect.



Detail of a sketch depends on the stage and the purpose.

The Stages based on Baskinger and Bardel (2013)



"Sketches do not have to be pretty, beautiful, or even immediately understandable by others. However, you should be able to explain your sketches and ideas when anyone asks about them." Greenberg et. al

EXERCISE

Pick two of the following:

Apple
Headphones
Sand castle
Water bottle
Paint brush

Draw both in 2 minutes, show them to the person next to you - can you recognize each others'?

EXERCISE

Turn your page into a 3 x 3 Grid and draw the prompt in one minute, then share:

EXERCISE

Turn your page into a 3 x 3 Grid and draw the prompt in one minute, then share:

Computer	Message	Robot
Shoe	Coal	Protest
Winter	Time	Roller Coaster