HCI: INTERFACE DESIGN

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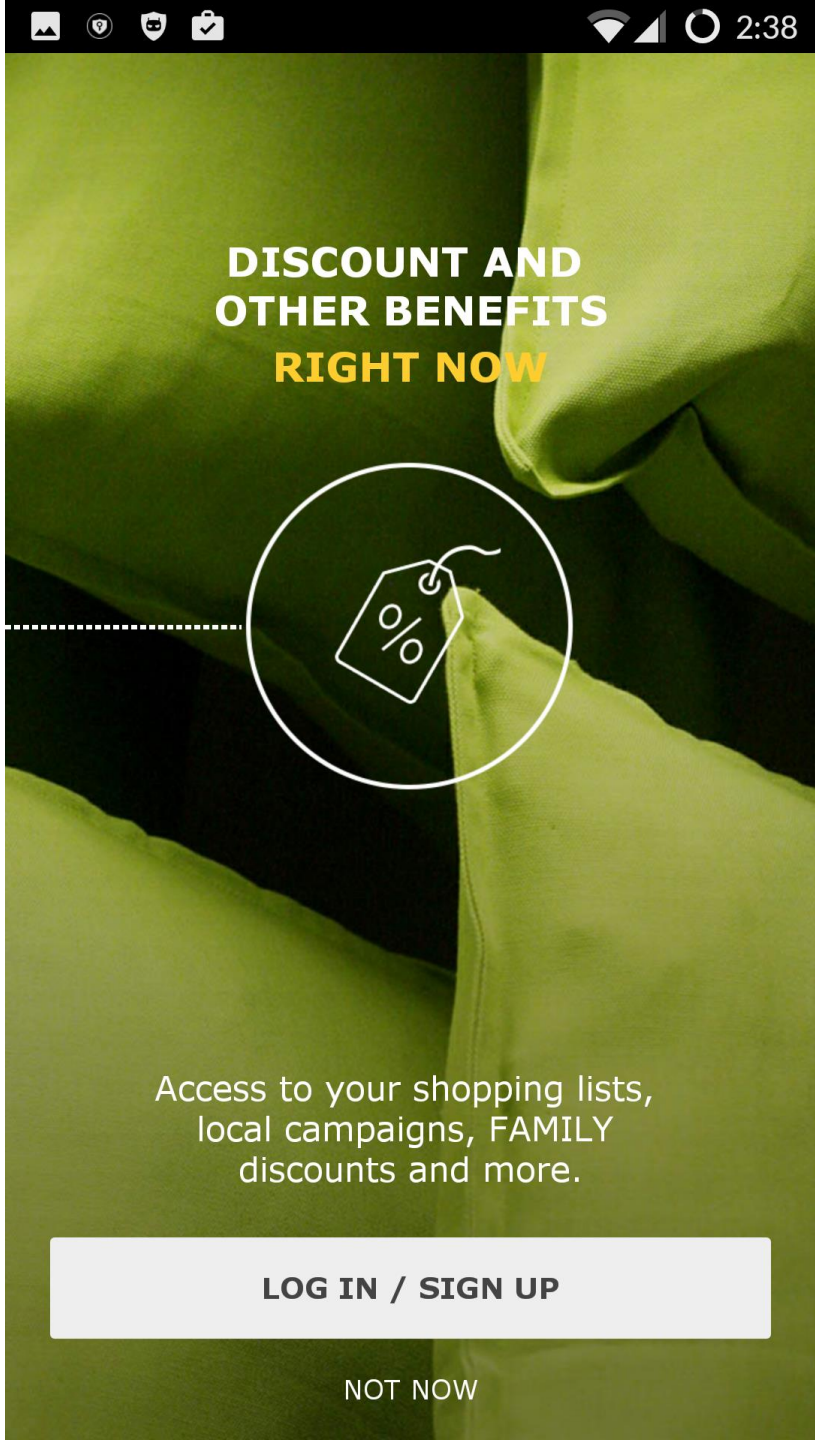
First, the news…

- Privacy dark patterns
- http://darkpatterns.org/privacy-zuckering/



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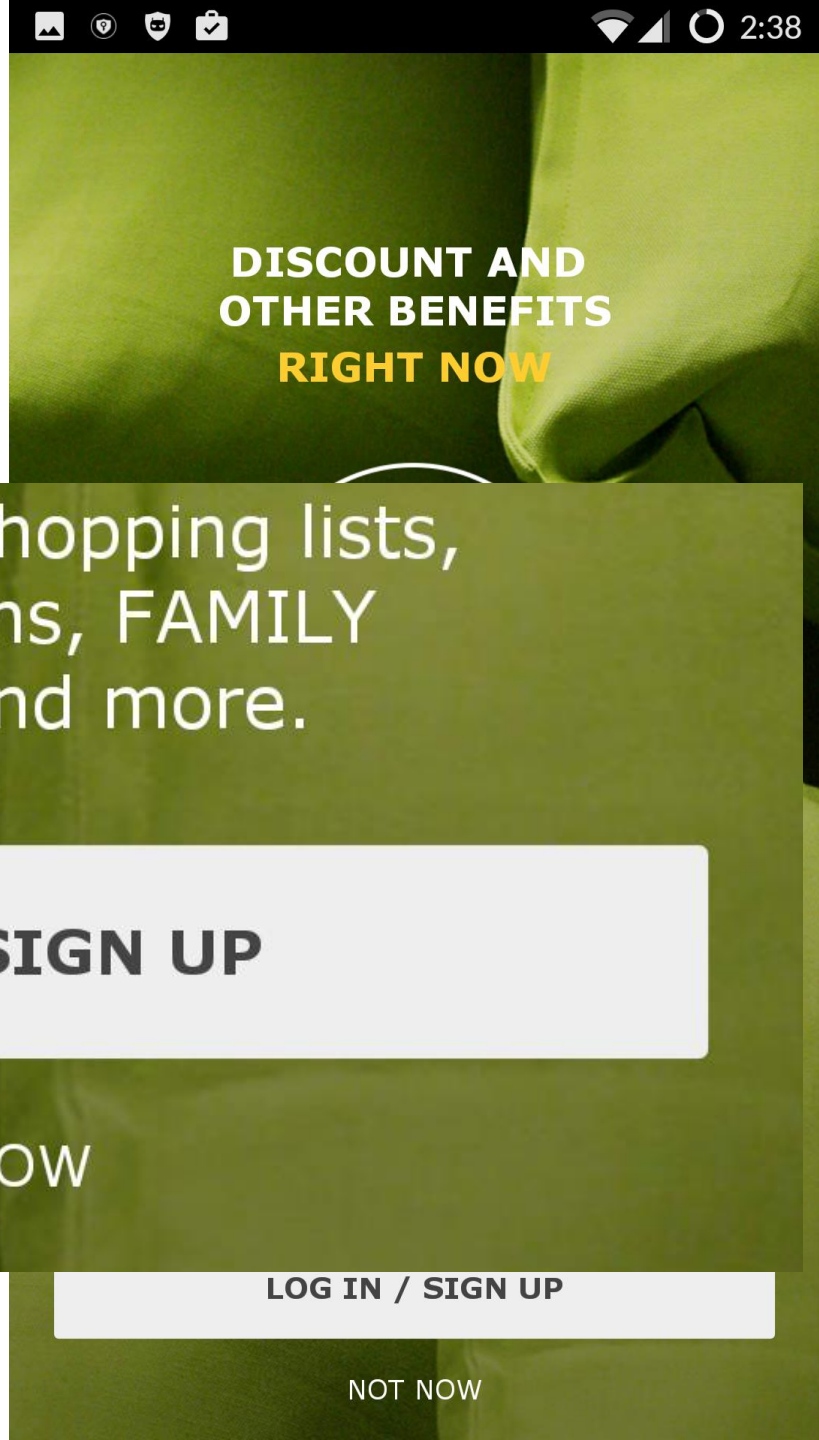

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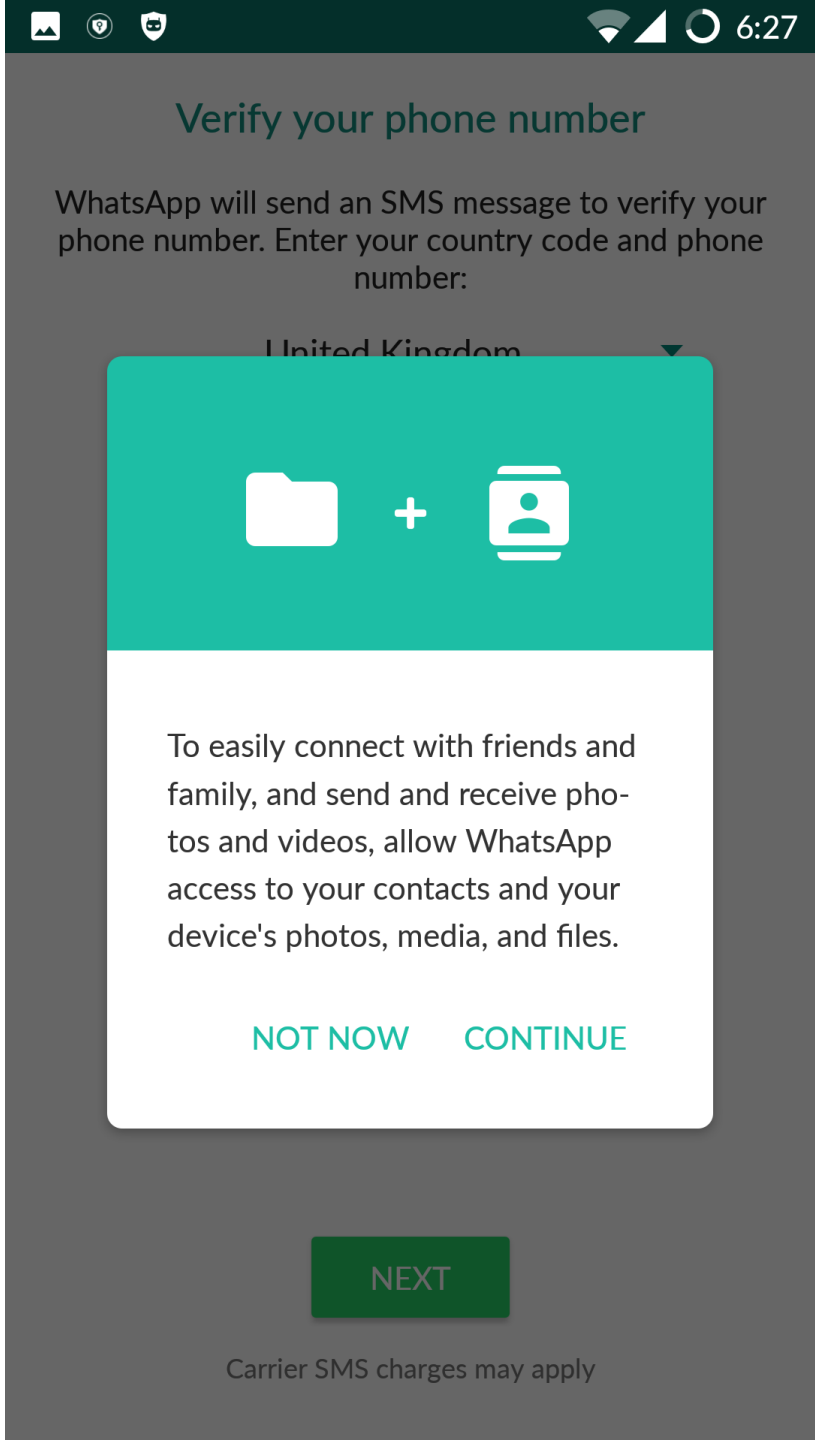
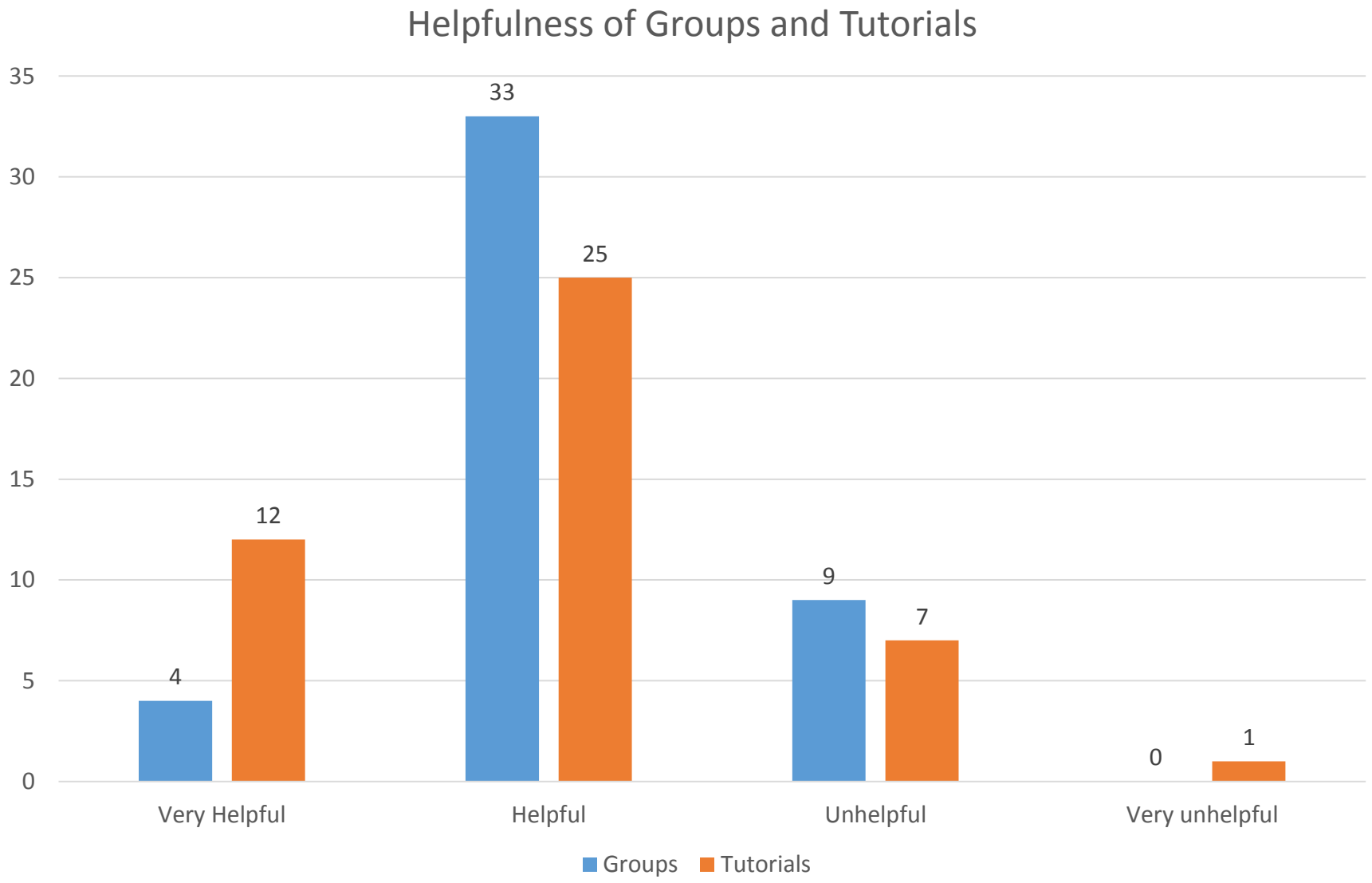


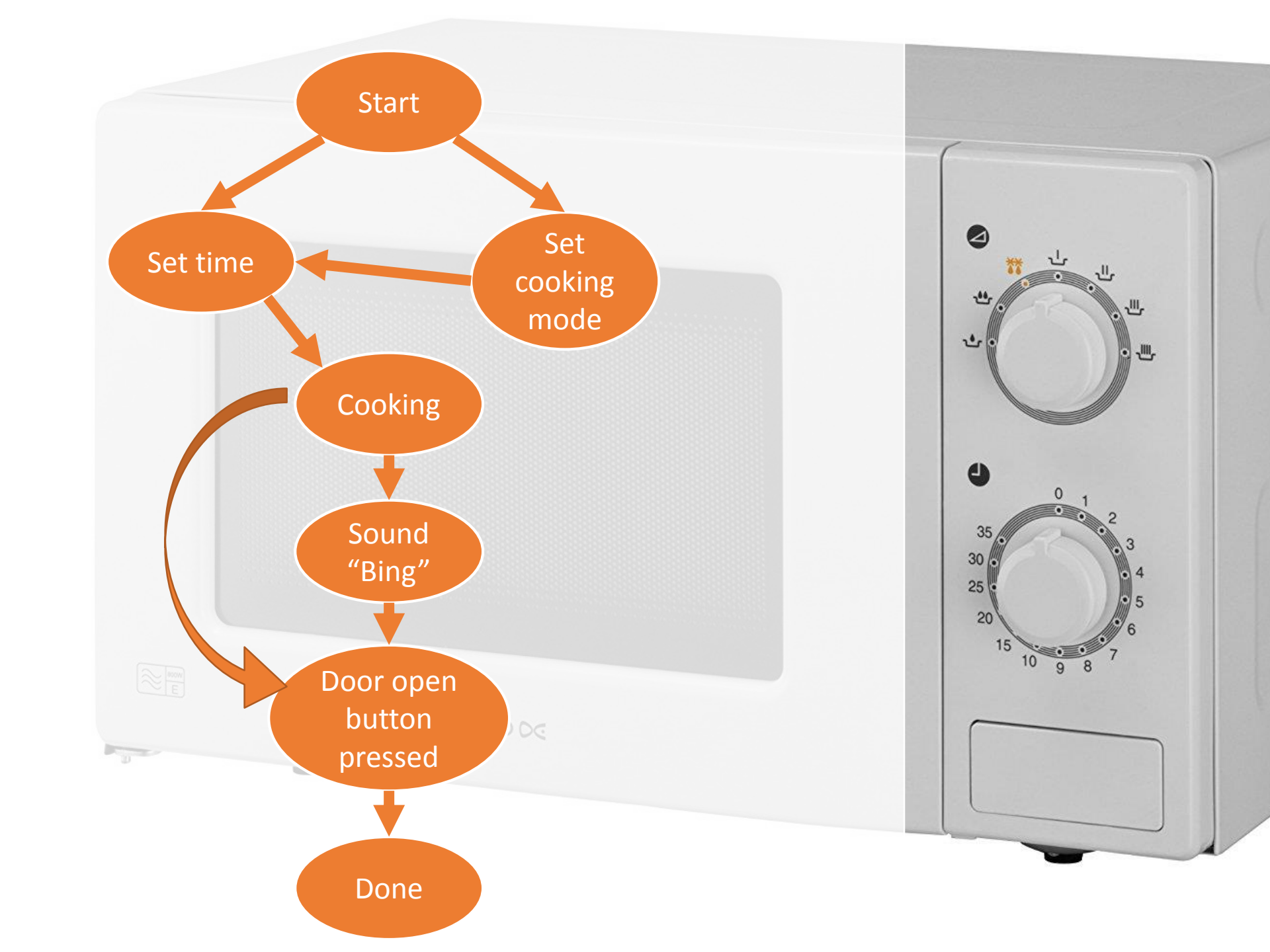
Course feedback



State diagrams

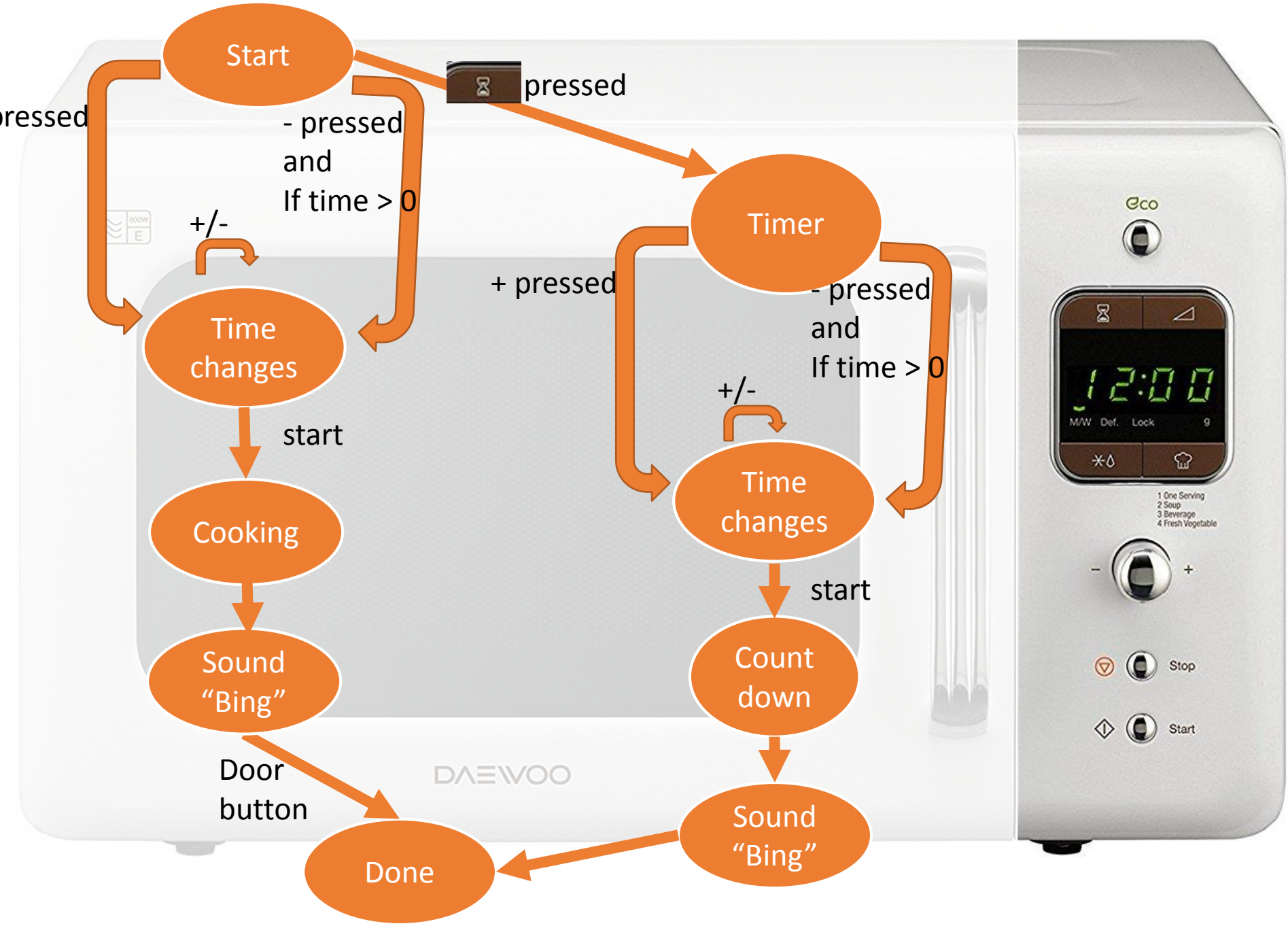
Today's challenge: Microwave app

- We are going to have a running example today of a microwave
- Start with microwaves themselves
- Move on to apps


Start
Set time
Set cooking mode
Cooking
Sound “Bing”
Door open button pressed
Done
0
1
2
3
4
5
6
7
8
9
10
15
20
25
30
35

Think-pair-share

- Draw the state diagram for this microwave from the following two start buttons
- +/- knob
- Timer button


Start
pressed
- pressed
and
If time > 0
+/-
Time
changes
start
Cooking
Sound
“Bing”
Door
button
Done
Timer
+ pressed
- pressed
and
If time > 0
+/-
Time
changes
start
Count
down
Sound
“Bing”
eco
12:00
M/W Def. Lock
1 One Serving
2 Soup
3 Beverage
4 Fresh Vegetable
Stop
Start
DAEWOO

• Auto cook menu
1.Bread
2.Soup
3.Baked Potato
4.Fresh Vegetable
5.Frozen Vegetable
AUTO COOK
Power
Defrost
Clock
Beverage
Pasta
Frozen Pizza
10 min.
1 hour
1 min.
10 min.
10 sec.
1 min.
STOP/ Clear
START/ +30 sec
KOR-6L6BD
DAEWOO
800W
E

What do people use microwaves for?
Why might they need an app?

Microwave app requirements

- Display status of the microwave (off, on, full, empty)
- If full, see when the timer went off
- Read temperature of food
- Peek at food (video of food)
- Remotely set new power level and time
- Remotely start microwave

Try and draw a microwave app that does all of this

- Display status of the microwave (off, on, full, empty)
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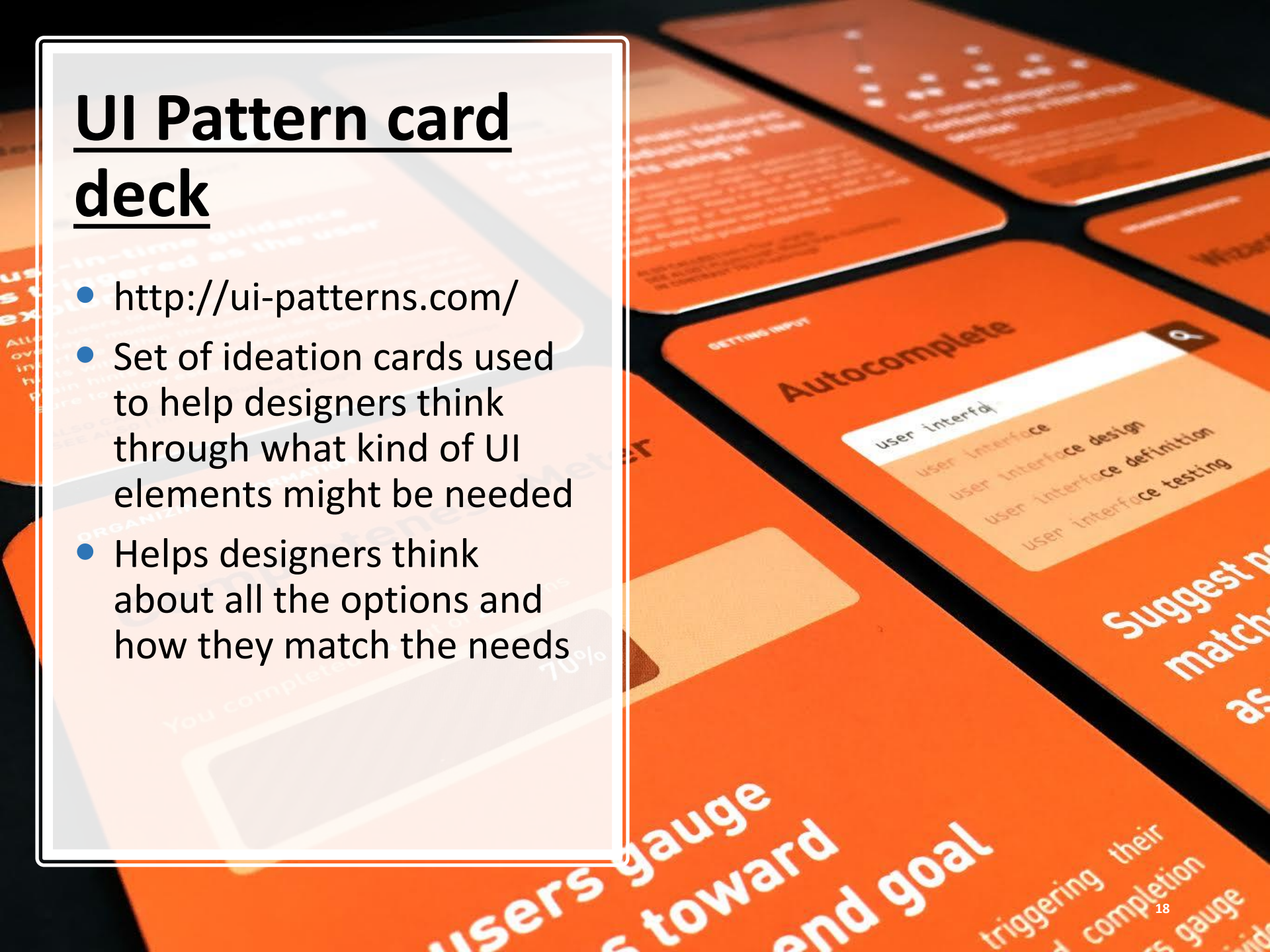
Design Patterns

A large number of examples drawn from:

http://ui-patterns.com/

UI Pattern card deck

- http://ui-patterns.com/
- Set of ideation cards used to help designers think through what kind of UI elements might be needed
- Helps designers think about all the options and how they match the needs



Setting the time

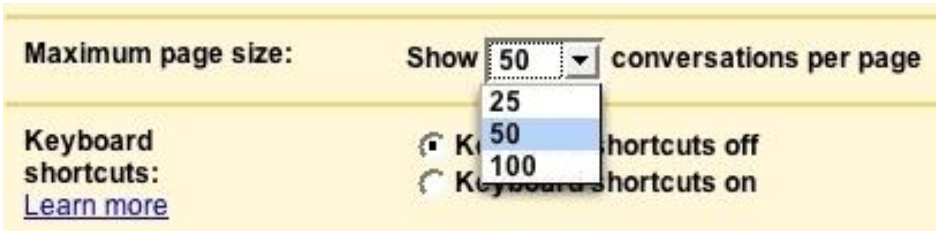
- Flexible format

- Structured format

Setting the time

- Flexible format

- Fill in the blank



- Structured format

Storyboards

Questions?