Prototyping

Plan for today

- A quick pass through takeaways from the reading
- Dig in on this week's prototyping + design critique activity!

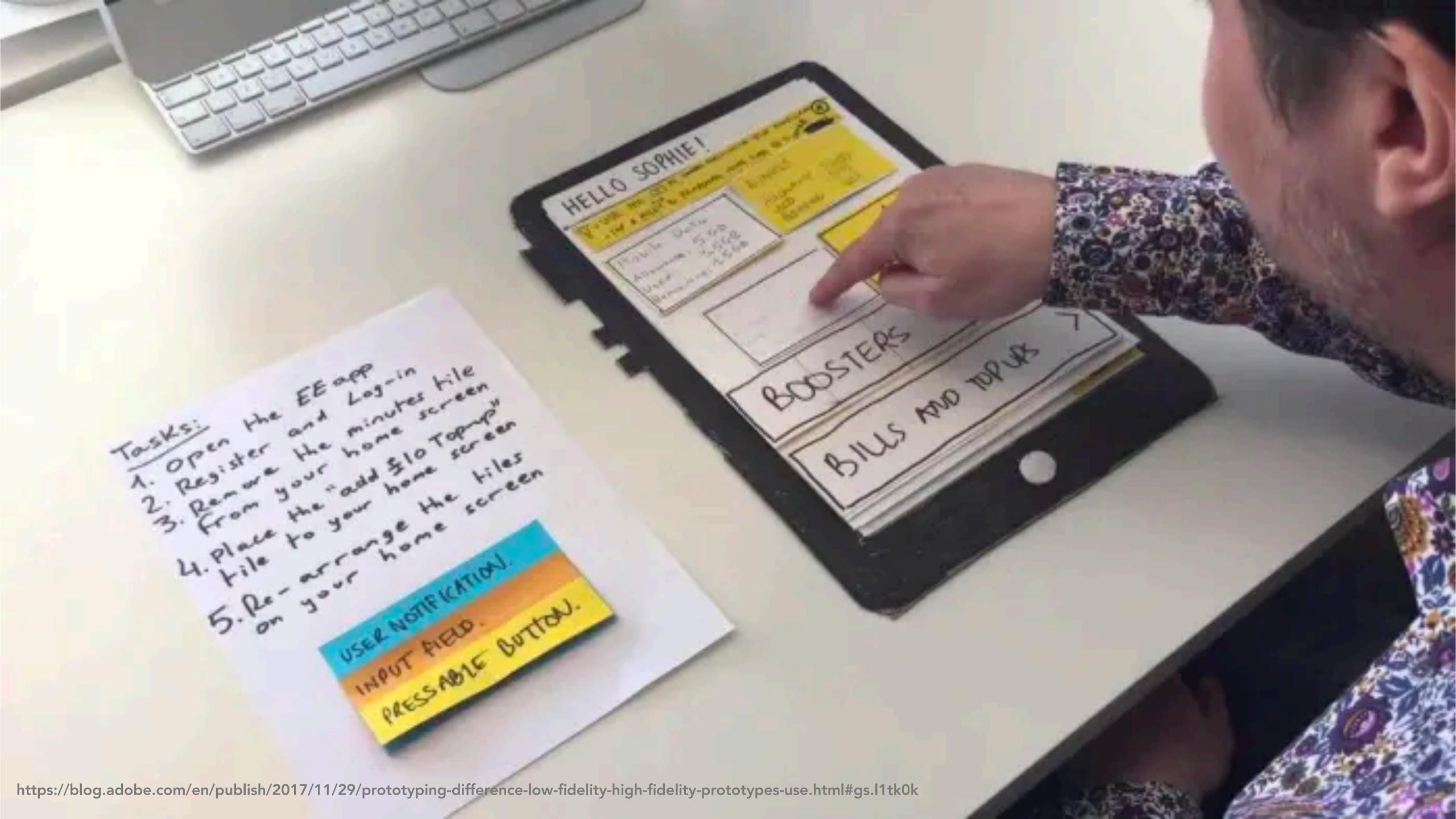
Prototyping

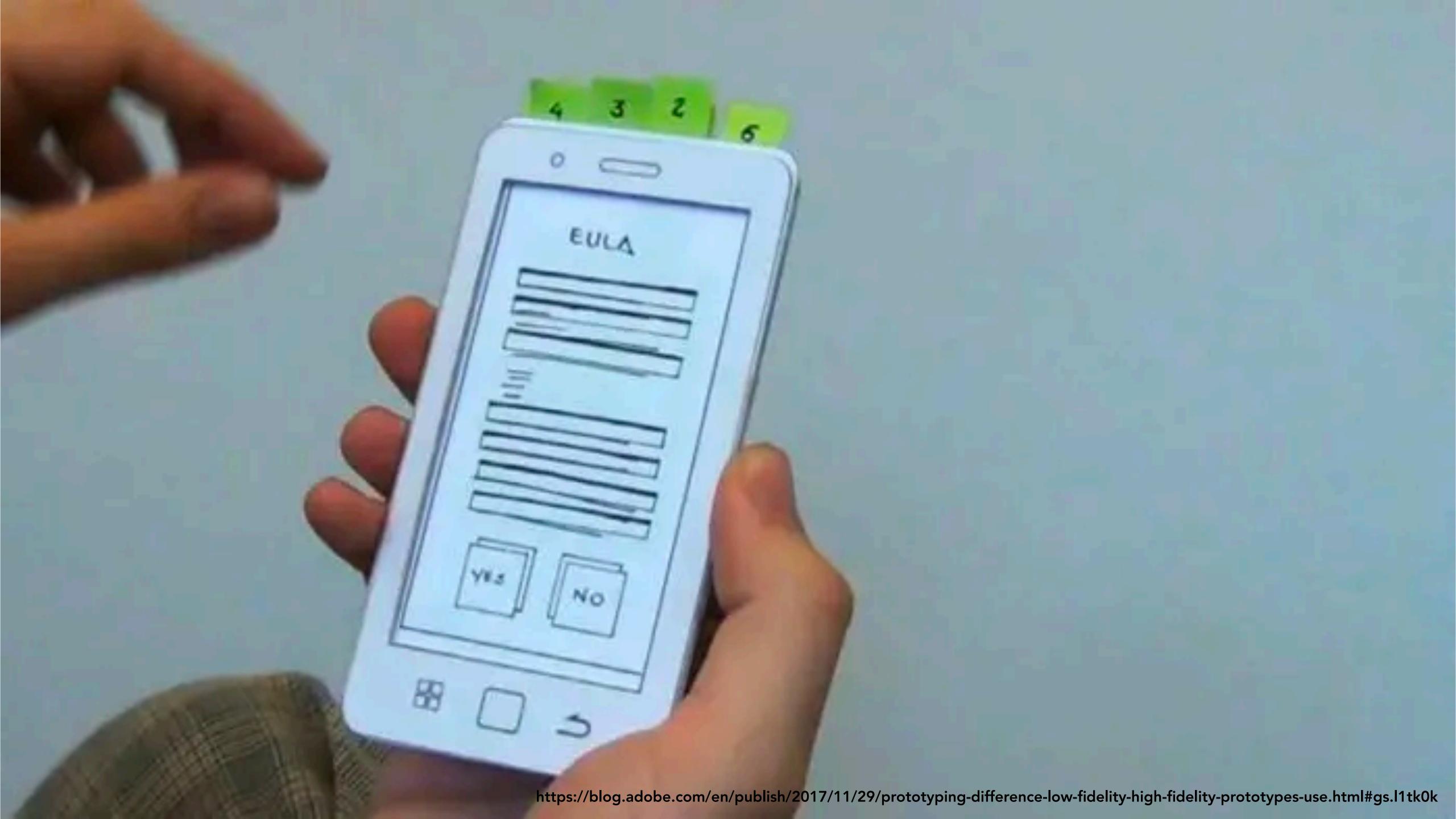
"...users can't tell you what they want, but when they see something and get to use it, they soon know what they don't want."

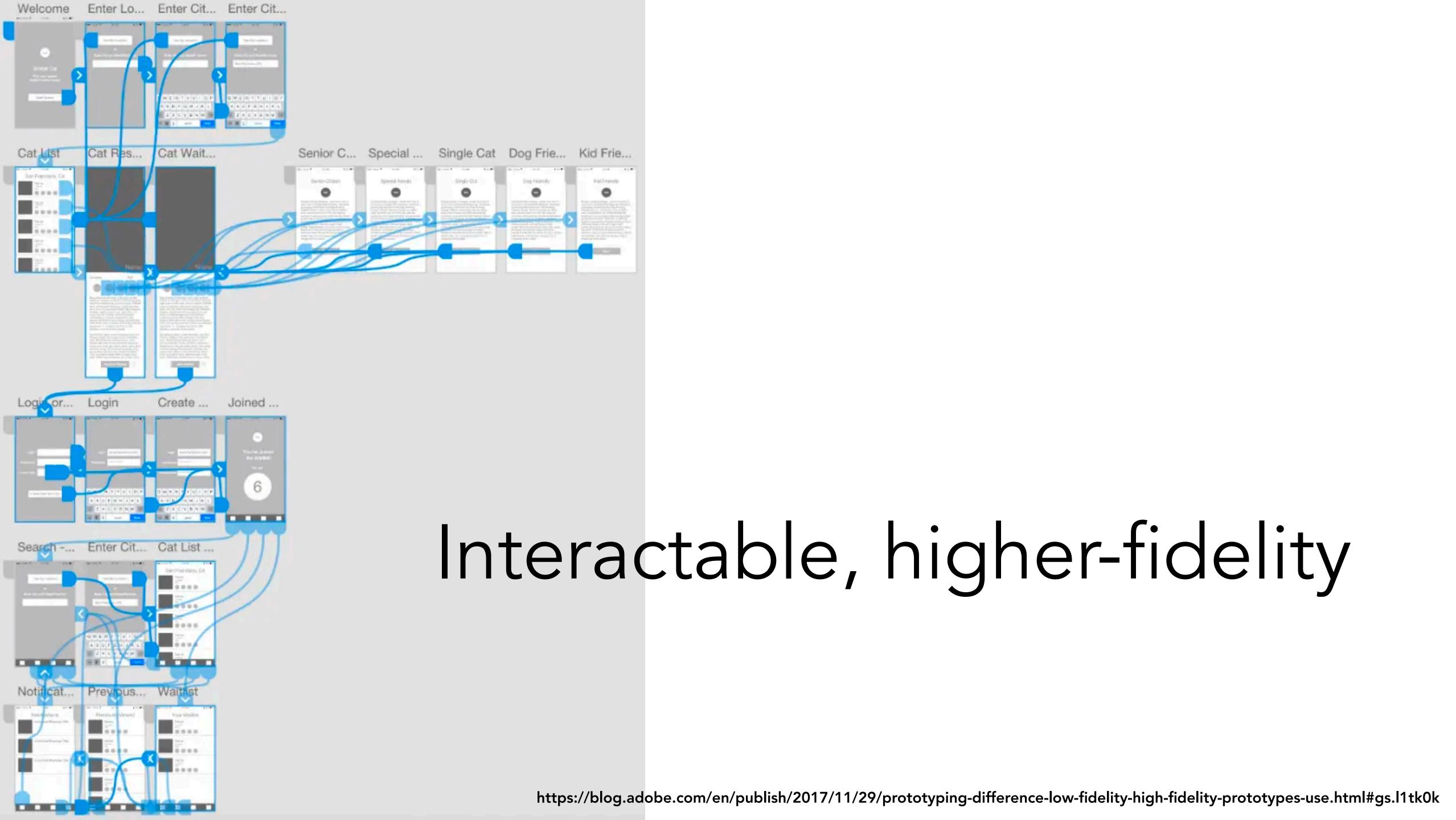
Prototype Roles

- Make you think harder, plan more thoroughly about what you want to build
- Help you solicit feedback on the thing you plan to build

Low- vs. High-Fidelity Prototypes







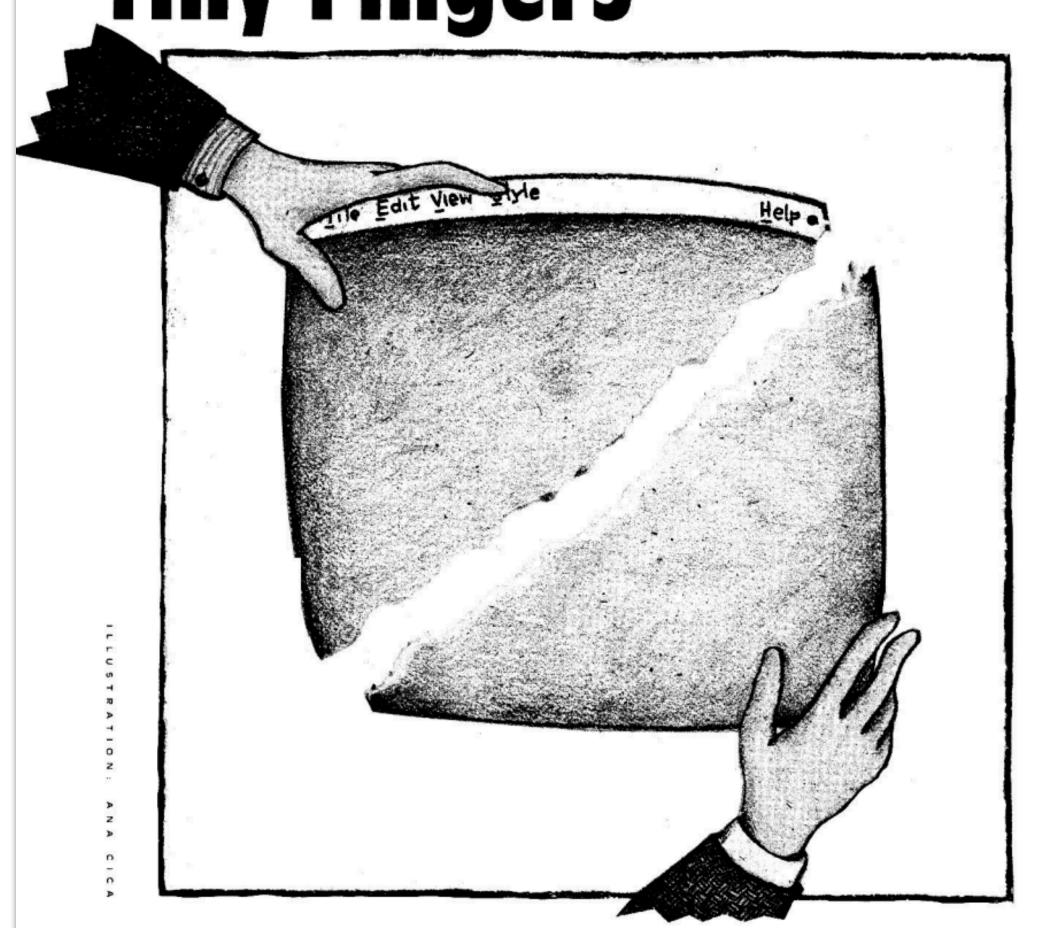
Low-Fidelity Prototypes

- Claims you may hear about low-fi prototypes:
 - People love to give you feedback on font size and if your icons make sense to them
 - If you don't want that kind of feedback, if you want feedback on elements deeper than aesthetics, consider low-fidelity prototypes
 - Also if it looks like you drew it in crayon and didn't sink a lot of time into it, people are more willing to criticize, which is what you want
- Personally haven't found research-backed evidence of the above
 - (Send me your references!)
- **But**...lots of evidence that you get just as much/just as good feedback from low-fi, and they're faster and cheaper to make, faster to tweak and change

Low-Fidelity Prototypes

- But...lots of evidence that you get just as much/just as good feedback from low-fi, and they're faster and cheaper to make
- ...with the result that maybe **you're** more willing to criticize yourself and to throw things away when you realize they're not right

Prototyping for Tiny Fingers



Consider this familiar situation: a generates scores of comments on subdevelopment team spends weeks designing an interface. They draw sketches on the board, discuss each point in detail, and finally specify a design. The design is either coded into the application language or simulated with a software prototyping tool. The result is finally shown to users for approval, in a session that

jects ranging from the basic metaphor to the choice of background color. The team just barely has time to incorporate these comments into a revised design before committing

by Marc Rettig

Now consider a different situation, one I have witnessed first-hand over the past few months: a development team spends weeks designing an interface. During the first few days, they construct a paper prototype of their initial thinking about all aspects of the design, and test it with typical representatives of the user commu-

A nice resource on the case for low-fi prototypes

 With good arguments for the claims mentioned on prior slides

Wizard-of-Oz Prototyping

- Like what we did the very first day of class!
- Lets us get around engineering effort by having a human do the work that our tool will eventually automate
 - Human can be:
 - Compiler, interpreter
 - Program synthesizer
 - Programming environment
 - Program transformation tool
 - ...

We've talked about lo-fi...

- ...because for today's purposes, we're mostly interested in early-stage formative studies
- But of course we want to be getting feedback from users at all points!
- Calling it low-fidelity naturally suggests the existence of high-fidelity...

Туре	Advantages	Disadvantages	
Low-fidelity prototype	Lower development cost Evaluates multiple design concepts Useful communication device Addresses screen layout issues Useful for identifying market requirements Proof of concept	Limited error checking Poor detailed specification to code to Facilitator-driven Limited utility after requirements established Limited usefulness for usability tests Navigational and flow limitations	
High-fidelity prototype	Complete functionality Fully interactive User-driven Clearly defines navigational scheme Use for exploration and test Look and feel of final product Serves as a living specification Marketing and sales tool	More resource-intensive to develop Time-consuming to create Inefficient for proof-of- concept designs Not effective for requirements gathering Interaction Design: Bey Interaction by Yvonne F	

Let's do some prototyping!

- In-class prototyping and design critique activity:
 - Listed in Thursday's class slot on the calendar, but this is a two day activity.
 - Complete with the group for your final project.