

IS4300: HCI

Prototyping

Spring 2013

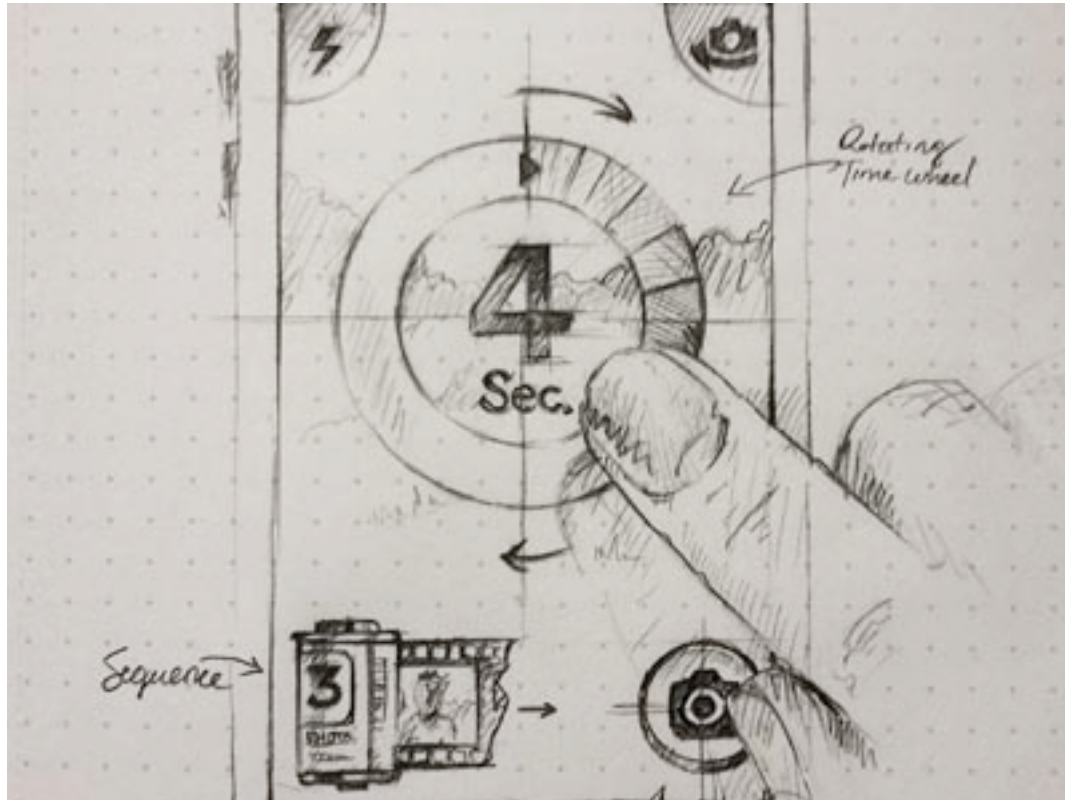
Today's Agenda

- Lecture on prototyping
- Prototyping exercise

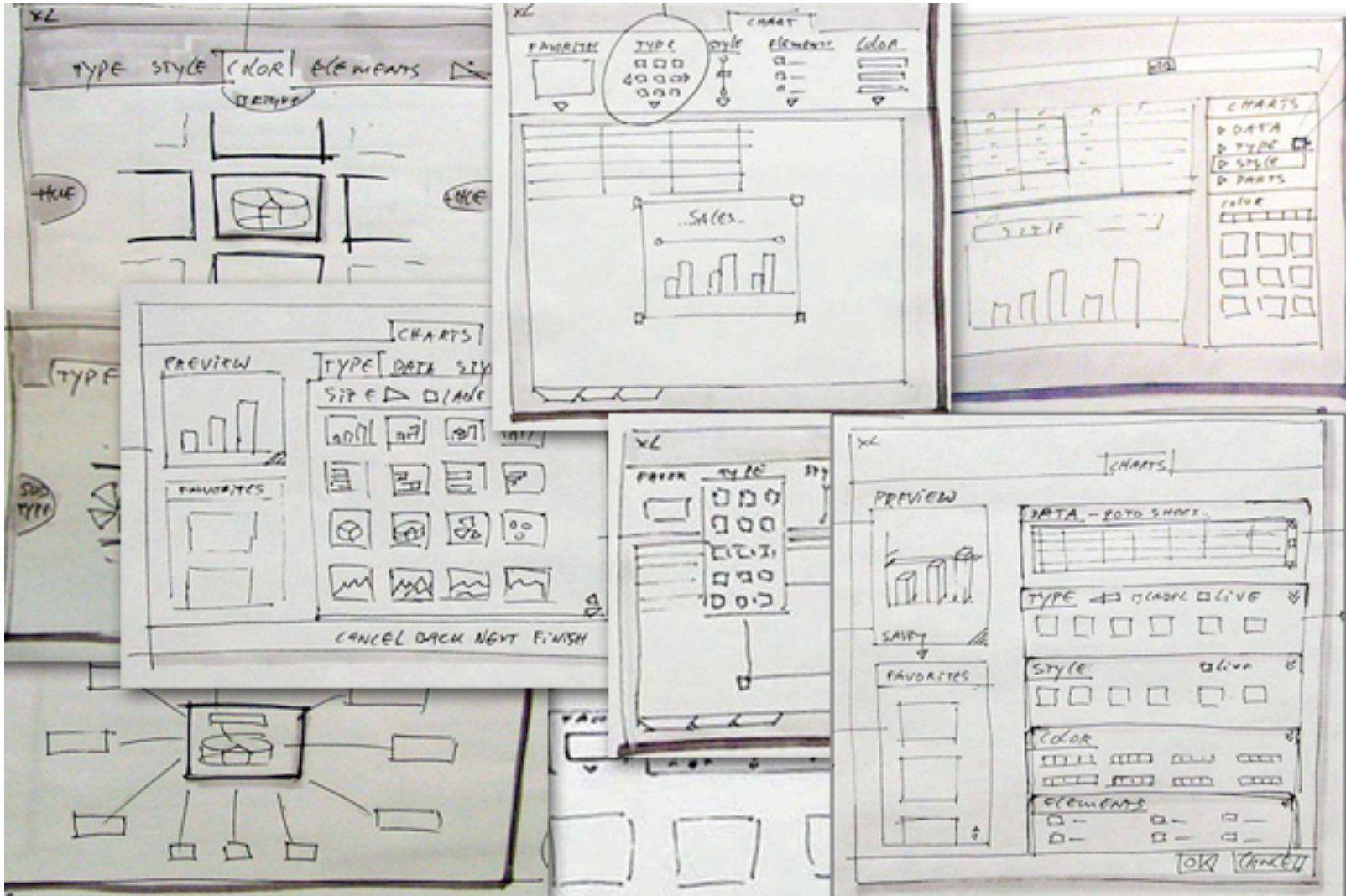
Prototyping principles

- A prototype exists to answer a question then be thrown away.
- A prototype is not your final product.

Screen sketches



Screen Sketches



Powerpoint decks

The screenshot shows a Microsoft PowerPoint application window with the title bar 'AskMobiSocialScience.ppt'. The ribbon includes tabs for Home, Themes, Tables, Charts, SmartArt, Transitions, Animations, Slide Show, and Review. The 'Slide Show' tab is active, showing options for 'Play' and 'Slide Show'. The 'Slides' pane on the left shows a list of slides, with slide 8 highlighted. The main slide area displays the following content:

6 Developing a healthy medication

7 Deconstructing common information

8 AskMobi: a microworld for social sciences

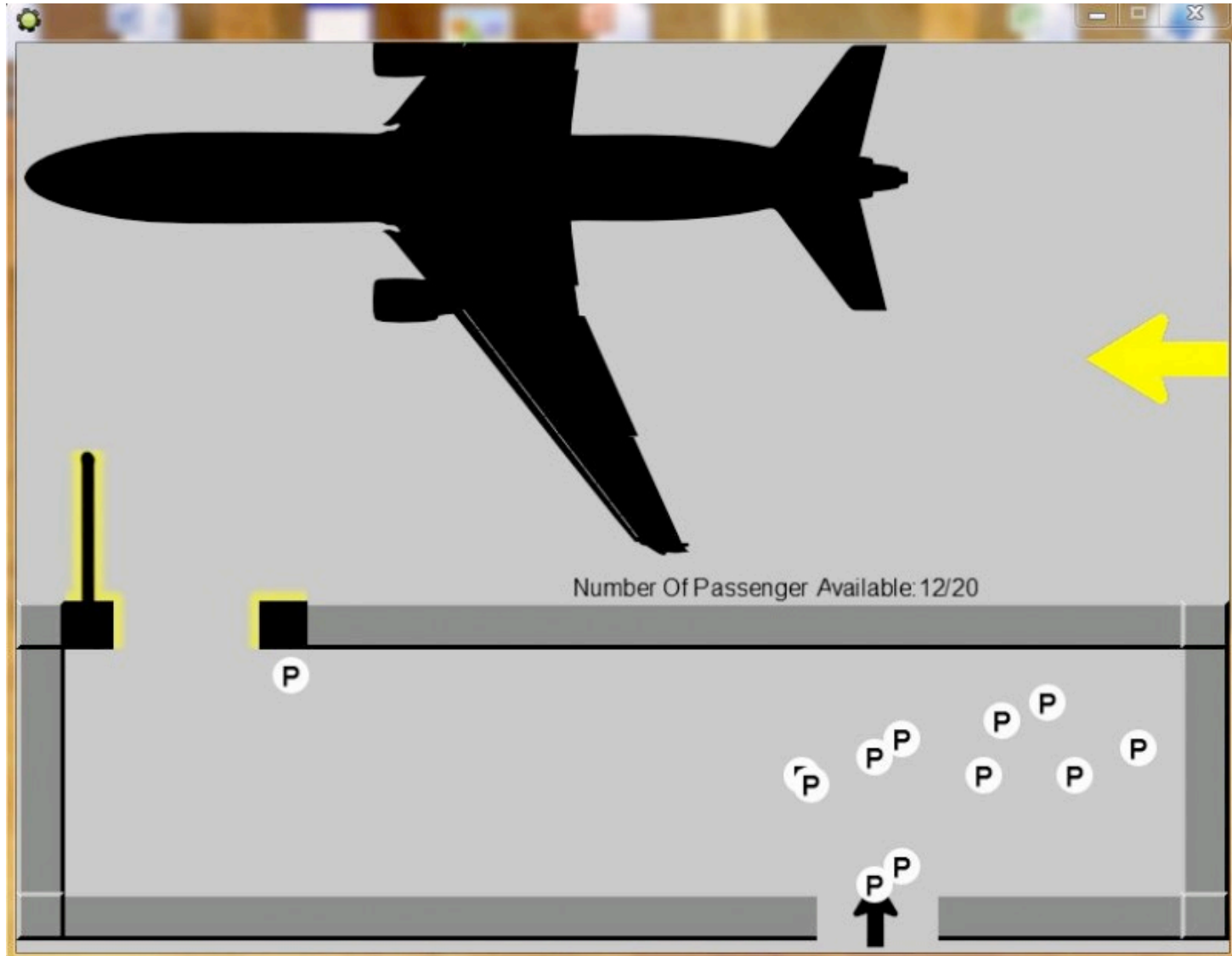
9

AskMobi: a microworld for social science

Text message
From: AskMobi
(Survey 1234) what age should people be allowed to vote?
Options Back

Normal View Slide 8 of 9 100%

Video simulating the use of a system



cardboard mock-up



Software with limited functionality

The screenshot displays the Jive 'Green Commute Challenge' app interface. At the top, the Jive logo is on the left, and navigation links for 'Create', 'Inbox', 'Preferences', 'Moderation', and 'Log out' are on the right. Below this is a secondary navigation bar with 'Home', 'Inbox', 'Work', 'Connections', 'Places', and 'Apps'. A search bar is also present. The main content area features a 'My Apps' section with 'New Dash' and 'dfsadfsdf' buttons, and a 'Business Productivity' section with an 'ADD MORE APPS' button. The 'Green Commute Challenge' app is open, showing a 'CHECK IN' form with a 'Mode of Travel' dropdown set to 'Bike', a 'Distance' input field, and a 'Notes' text area. A 'Rate It' section with five stars and a 'Check In' button is also visible. To the right, the 'MY STATS' section for user 'Lukasz' (Information Technology) shows 3,003 miles bicycled, 65 tons of carbon reduced, and 12 days riding the bus. Below this is a quote: "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed eius mod tempor incididunt ut labore et dolore consectetur adipiscing elit, sed eius mod magna." The 'LEADERBOARD' section lists five entries for 'Paul Alexander' (Engineering, 256 Points, Miles: 5, Rating: 3). The 'CONNECT' section shows three users: Paul Alexander (Engineering, 256 Points), Michelle (Design, 256 Points), and Sarah T (256 Points), each with a 'Follow' button. The 'RECENT ACTIVITY' section shows three entries for 'Dexter Jefferies' checked in via the challenge, with a mode of 'Bus', 5 miles, 45 points total, and a rating of 3.

Wooden or 3D Printed Form Factors

(e.g., GameStick)



Why Prototype?

The goal of prototyping is to resolve uncertainty about

- functional and user requirements
- operation sequences
- user support needs
- required representations
- “Look and Feel” of the interface
- appropriateness of the design

Different kinds of prototyping

“Throw away” prototyping (a.k.a. “rapid prototyping”)

- used exclusively in requirements gathering

Incremental prototyping

- not actually prototyping at all, but the delivery of prioritized functions incrementally to a single, overall design

Evolutionary prototyping (a.k.a “Rapid Application Development, RAD)

- as for incremental prototyping but with evolving design

Paper prototyping

<http://www.youtube.com/watch?v=GrV2SZuRPv0>

<http://www.youtube.com/watch?v=9wQkLthhHKA>

Paper prototyping activity