User Interface Software Projects

Assoc. Professor Donald J. Patterson INF 134 Winter 2013

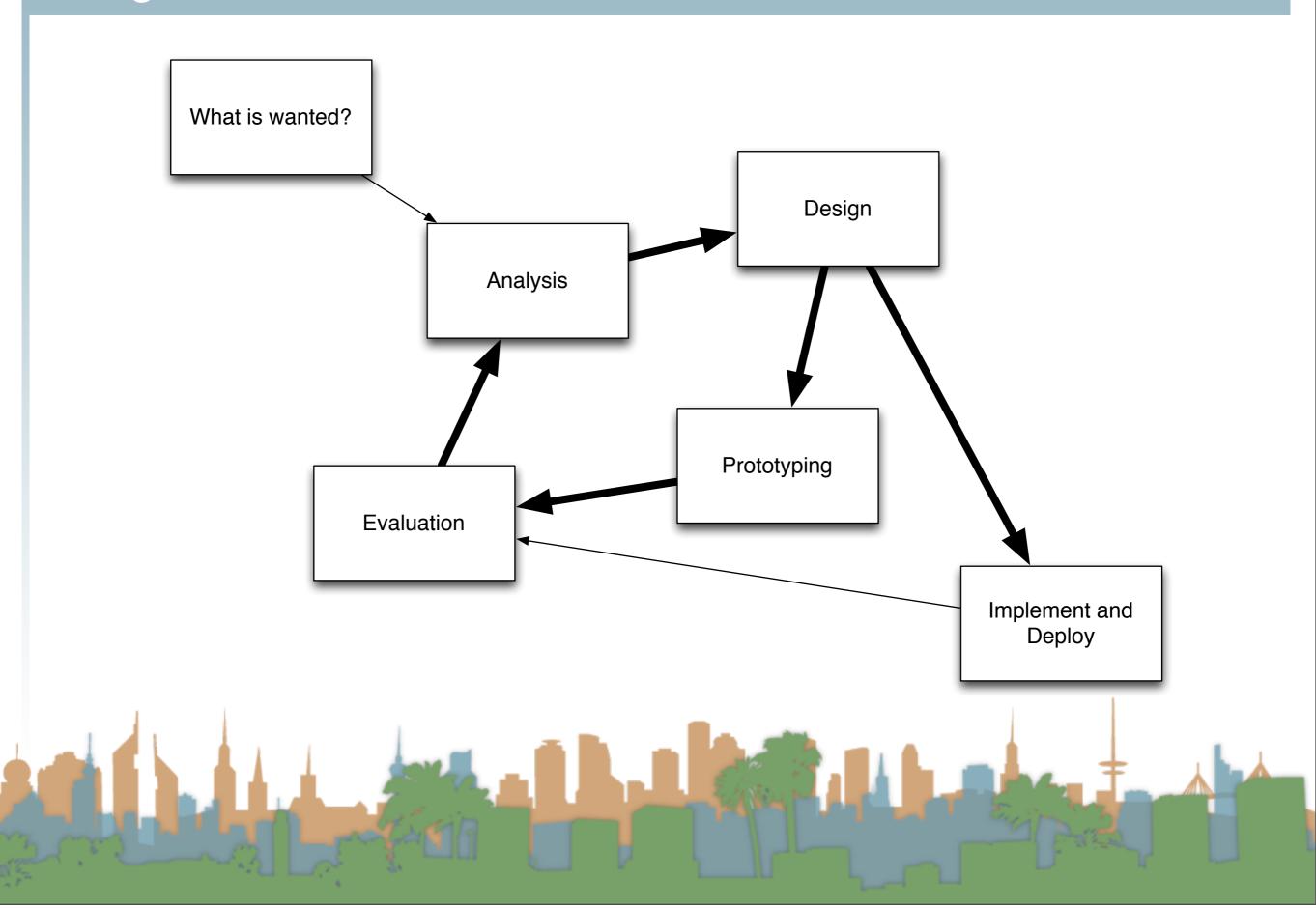
- Why sketching?
 - Quick
 - Timely
 - Inexpensive
 - Disposable
 - Plentiful
 - Clear Vocabulary
 - Distinct Gesture
 - Minimal Detail
 - Appropriate degree of refinement
 - Suggest and explore, not confirm
 - Ambiguity

Sketches are intentionally ambiguous. They can be interpreted in different ways. Unexpected relationships emerge from viewing them, even for the sketcher.

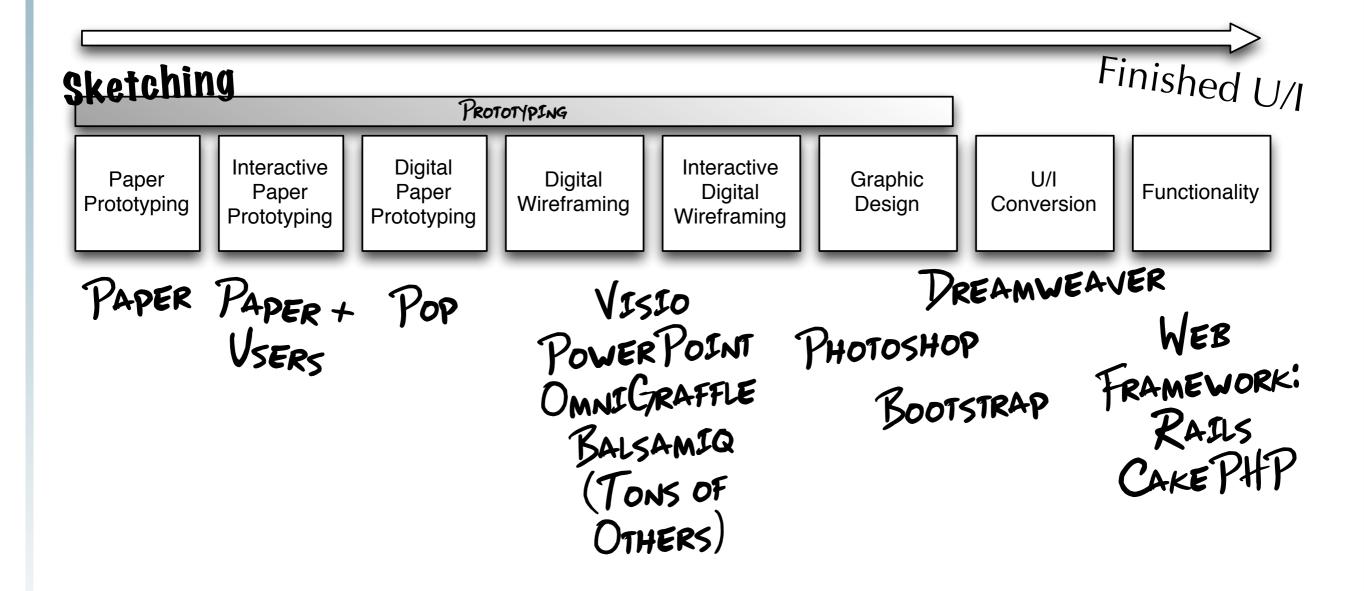
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Design Process



Prototyping





- Sketching Exercise
 - YouTube
 - LA Times
 - Amazon
- Why?
 - to study the layouts
 - to think about sketching and prototyping by doing
 - to see other people's sketching styles



Interactive Paper Interfaces - so what is paper prototyping?

- Turning it into a video example
 - Post it note example video



- Try it
- Create an interface with two buttons
 - "Touch"
 - "Do not touch"
- Create a landing page for each
 - With a back button for "Do not touch"



Rapid Prototyping

Fail fast

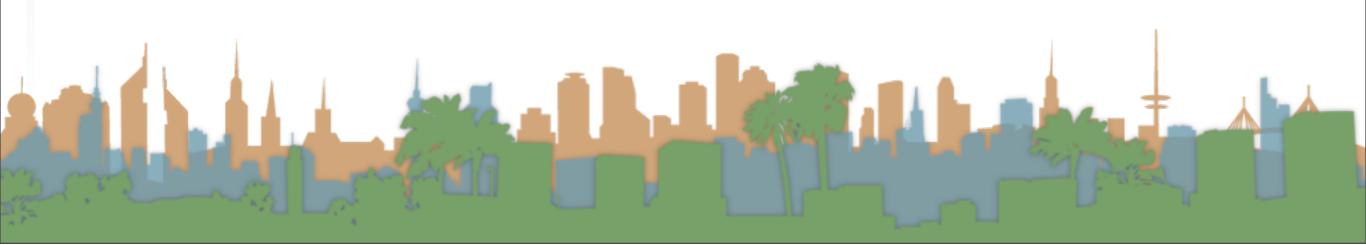




- Protocol
 - One person sketches and operates the sketch
 - One person is the user
 - Both are important
 - Both talk the whole time the interface is tested.
 - Sketcher explains the task
 - User verbalizes what they are thinking, looking for, expecting



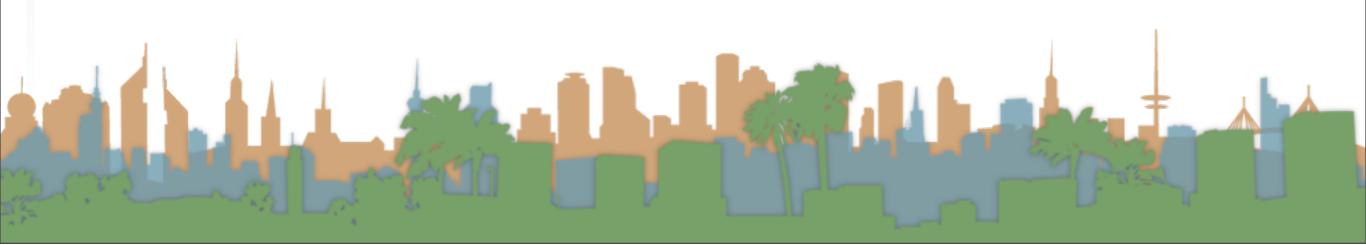
- Protocol
 - Operating the sketch means:
 - Presenting views of the interface to the user
 - Replacing views as the user interacts.
 - Being a user means
 - Using your hands to point and click
 - Verbalizing what's going on in your head



	Facilitator	User
Fig. 9 If (a) 4 In Sec. 10 In Sec	(Start: Sketch 1.a in front of user.) The sketch in front of you shows the screen of your PDA. I want you to send a message to your 10:00 am appointment. For this exercise, to do anything, just touch what you think is appropriate on the screen, and tell me what you are doing or thinking as you go along.	
Figure 185 At		Okay. I assume that you want me to send a message to Mary Ford, since she is my 10:00 am appointment. So I will touch her name.
Sand Sand	(Facilitator replaces sketch 1.a with 2.b)	Now I see a menu that lets me either call her or message her.
Section 100 mm to the section of the		So, what I will now do is touch *message* on the menu.
Francisco San Valle	(Facilitator replaces sketch 2.b with 4.a)	Okay. I now see a screen that lets me send a message to Mary Ford. What now?



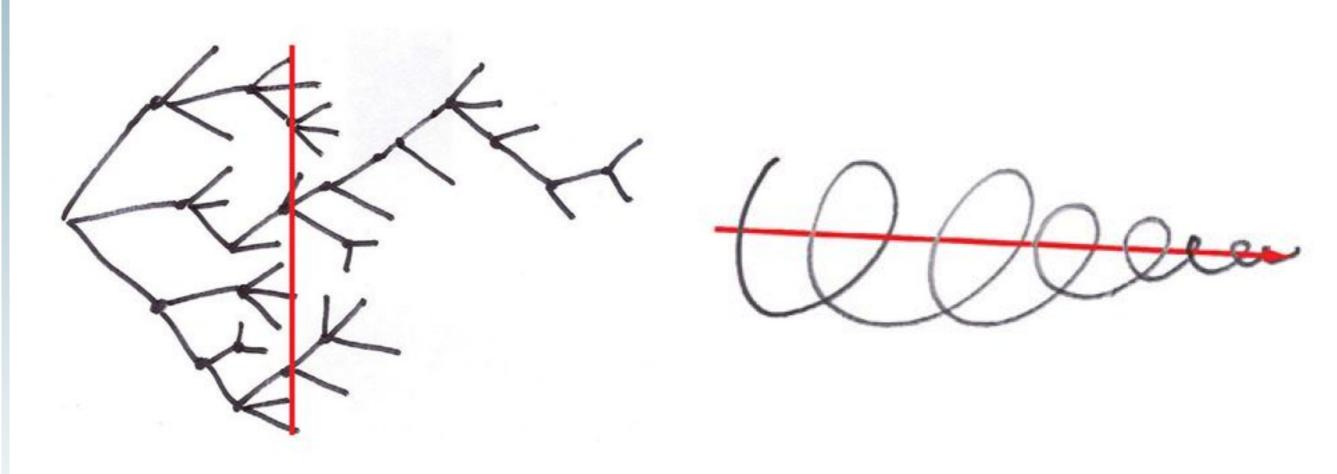
- What are possible outcomes?
 - Insight into the task
 - New ideas of how to implement it differently
 - Expose design errors (obvious in hindsight)
 - Insight into the user's expectations
 - A video capture can be sent to remote collaborators
 - An analysis of the sketched interface



• Test your Post-It with a partner

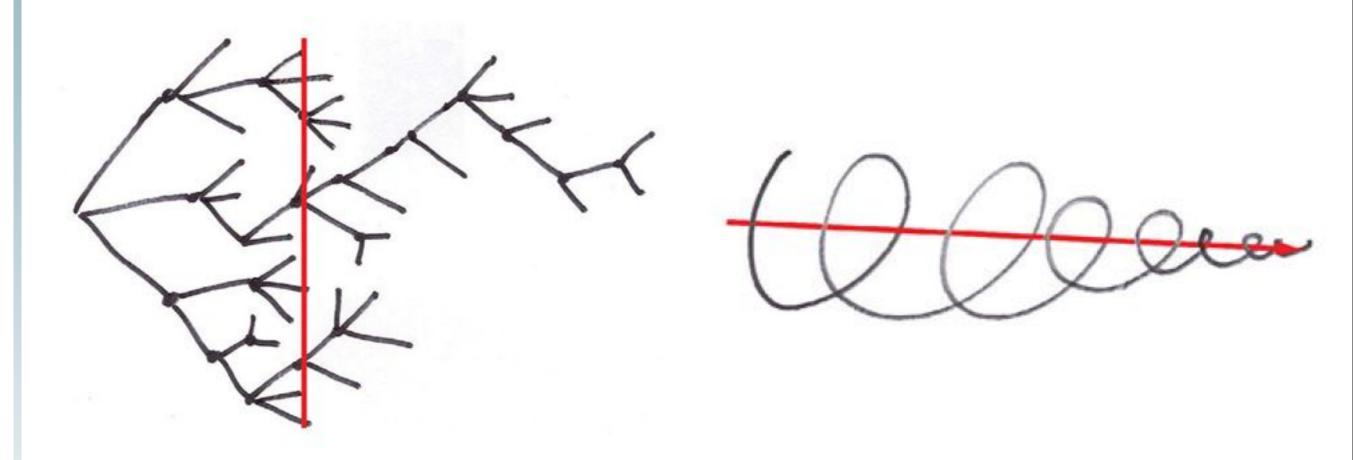


Two ways of thinking of this task



- Design
 - "Sketching"

- Usability Engineering
 - "Paper Prototyping"



- The role of design is to find the best design
- The role of usability engineering is to help make that design the best



- Paper Interfaces in the wild
 - tektronix





- Paper Interfaces in the wild
 - Designing an oscilloscope
 - Textronix only iterated in paper
 - This example shows that poor keyboard design was discovered.
 - Notice the way the user's unconsciously put their fingers in the right position to manipulate the dials as if they were physical



- iPhone example
 - Notice how a cut-away can be used
 - http://www.youtube.com/watch?
 v=6TbyXq3XHSc
- Physical example
 - Notice how an entire kiosk can be "sketched"
 - http://www.youtube.com/watch?v=jkvqLd-CMyY



 We are going to paper prototype in class to fail fast on an interaction design



- POP
 - Digital Paper Prototyping Tool Example



- Balsamiq
 - Digital Interactive Wireframing Tool Example

