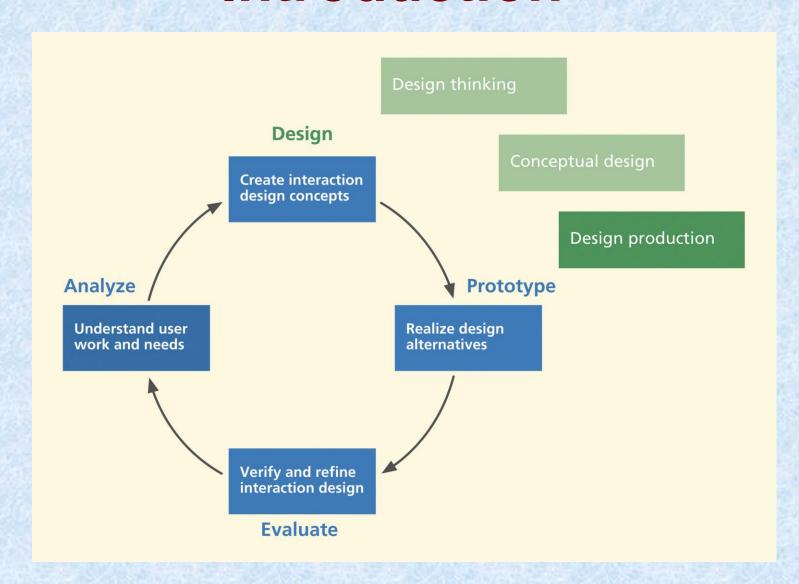
User experience design

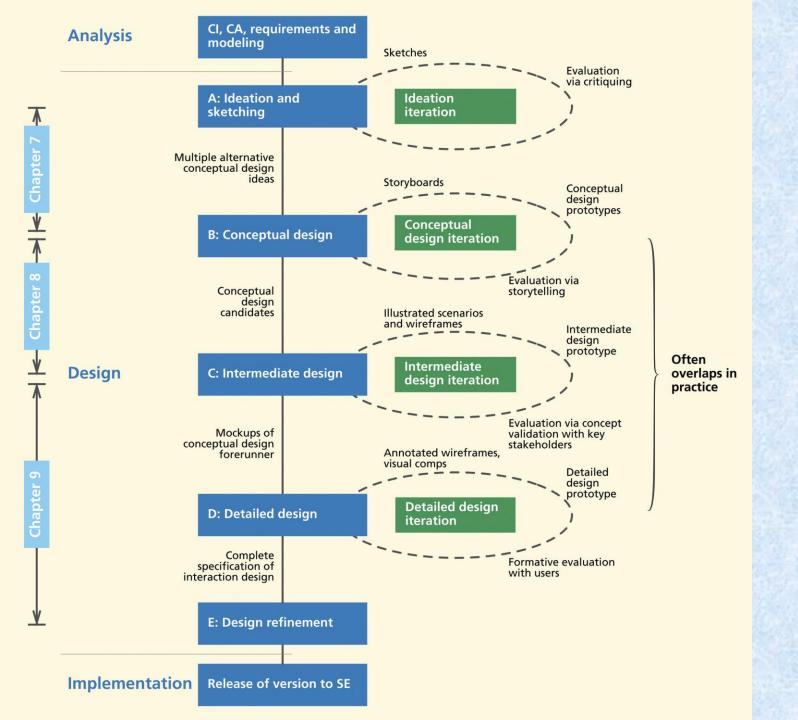
Chapter 9. Design Production

Introduction



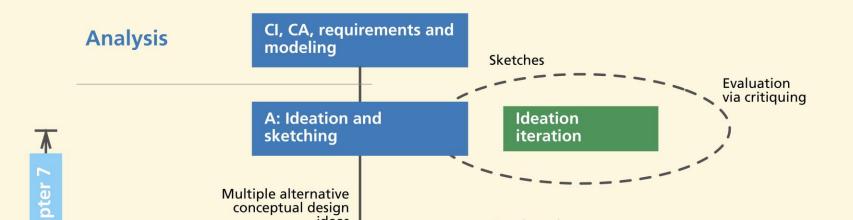
Macro view of design iterations

 "Blow up" of how lifecycle iteration plays out for various kinds of design



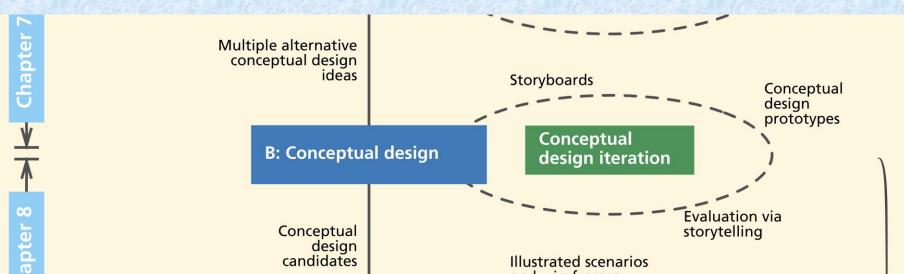
Ideation Iteration

- Lightning-fast
- Loosely structured iteration
- For purpose of exploring design ideas
- Role of prototype played by sketches



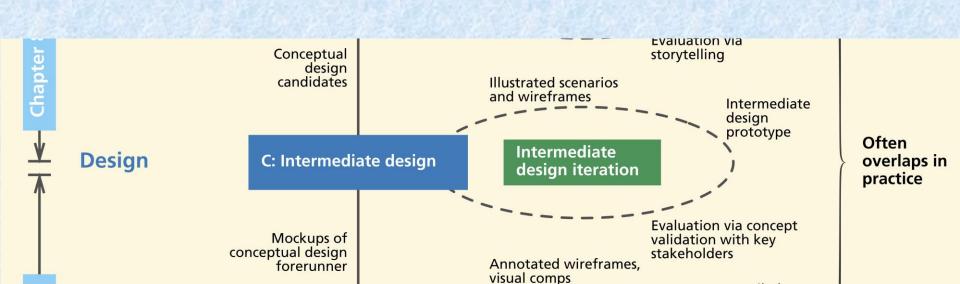
Conceptual Design Iteration

- Critique and compare multiple design concepts
- Sort out best one
- Weigh concept feasibility
- Prototypes: low-fidelity paper, storyboards



Intermediate design iteration

 To arrive at one intermediate design for layout and navigation

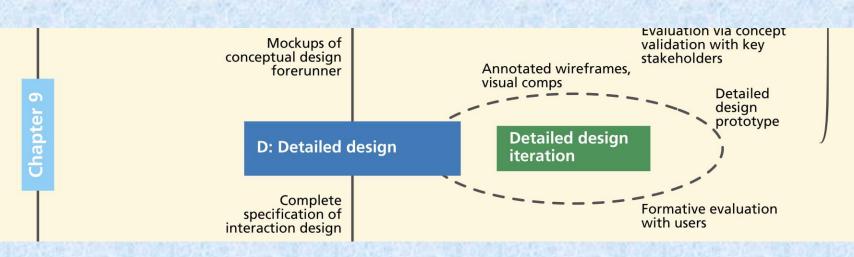


Intermediate design iteration

- Prototypes might evolve
 - From low-fidelity to wireframes (coming soon)
- Fully interactive high-fidelity mockups as vehicle for demonstrations and design reviews

Detailed design iteration

- To decide screen design and layout details
- Includes "visual comps" (coming up soon) of "skin"
- For look and feel appearance

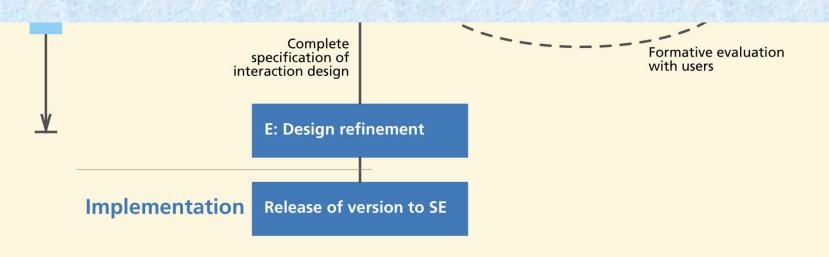


Detailed design iteration

- Design will be fully specified with complete descriptions of
 - Look and feel
 - Behavior
 - How all workflows, exception cases, and settings will be handled

Design Refinement Iteration

- Prototype usually medium to high fidelity
- Evaluation
 - Rapid method
 - Full rigorous process



Doing intermediate design

- Screen layout and navigational structure
- Represent key work flows with sequences of wireframes, click-through prototypes

Doing detailed design

- Annotated wireframes
- Evaluate and iterate detailed designs to refine wireframes
- Include all user interface objects and data elements
 - Still represented abstractly but annotated with call-out text

Visual design and visual comps

- Need visual designer who has been involved in
 - Ideation, sketching, and conceptual design
- Now produces what we call visual "comps"

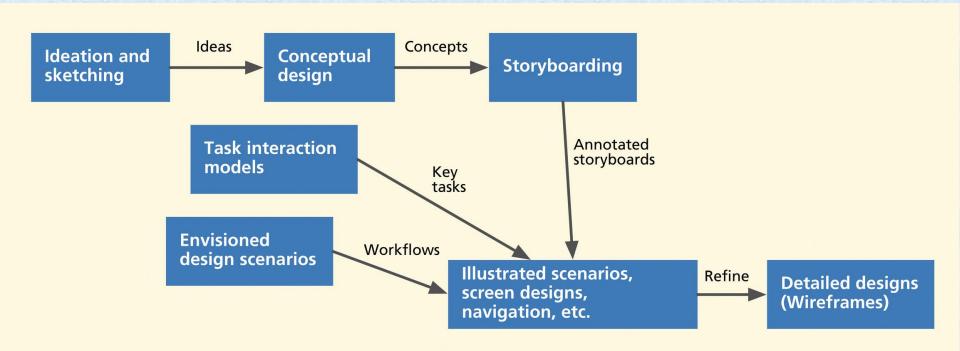
Visual comps

- "Comprehensive" or "composite" layout
- Very specific and detailed graphical look and feel
- Pixel-perfect mockup of graphical "skin"

Visual comps

- Consistent with
 - Company branding
 - Style guides
 - Best practices in visual design

The path to wireframes



- De facto representation medium for interaction design at this stage
 - Prototyping
 - Documenting
 - Communicating to implementers

- Major bread-and-butter tool of interaction designers
- Made of lines and outlines
 - Hence the name "wire frame"

- Somewhat abstract schematic diagrams and "sketches"
- Define Web page or screen content and navigational flow
- Show approximate visual layout, behavior

Wireframes to represent design objects

- Boxes and other shapes to represent emerging design objects
- Drawing is usually simple
 - Often just rectangular objects
 - Objects can be labeled, moved, and resized

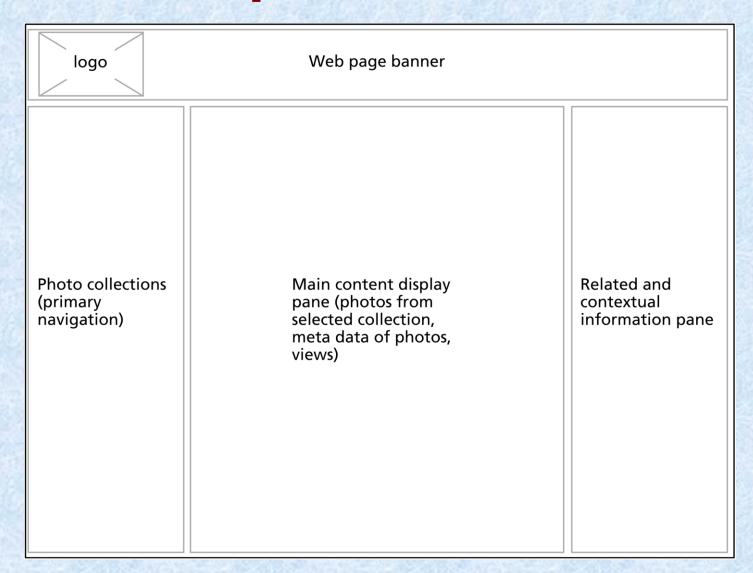
Wireframes to represent navigation

- Sequences of wireframes to show usage over time
- Depict envisioned task flows
 - In terms of user actions on user interface objects and corresponding state (screen) changes

Example, wireframes

- Web-based photo organizing and sharing application
- Illustrates high-level conceptual design

Example, wireframes

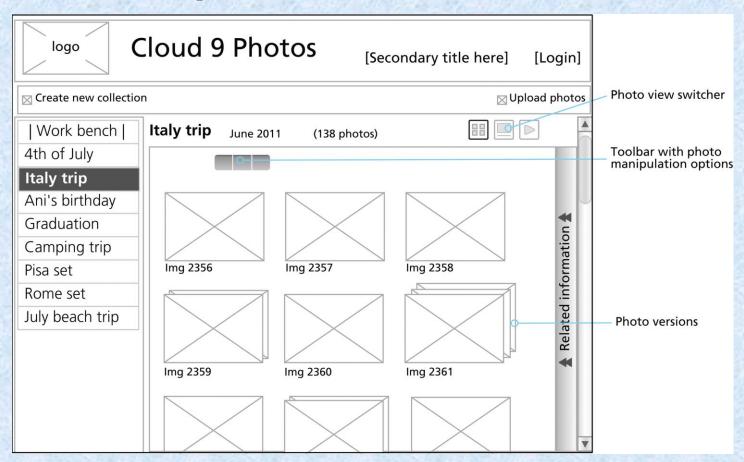


Example, wireframes

- Nav-bar on left shows all user's photo collections
- Center pane is main photo display area
 - Thumbnails or individual photos
- Right-hand pane shows detailed information about any selected photo

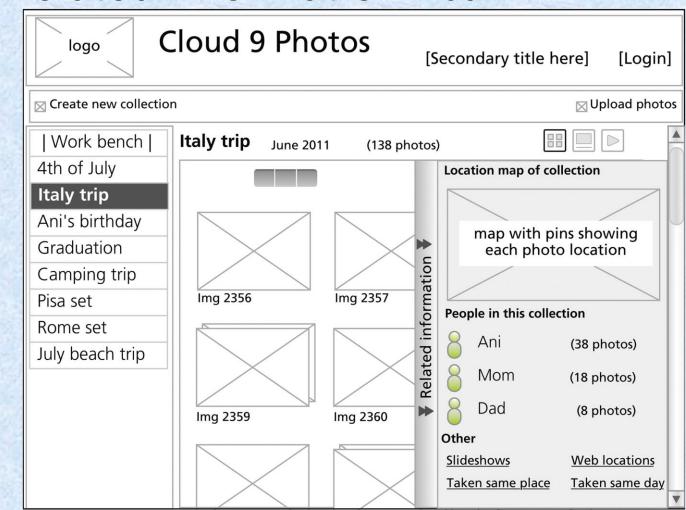
Example, design further elaborated

 Shows right-hand side information pane collapsed



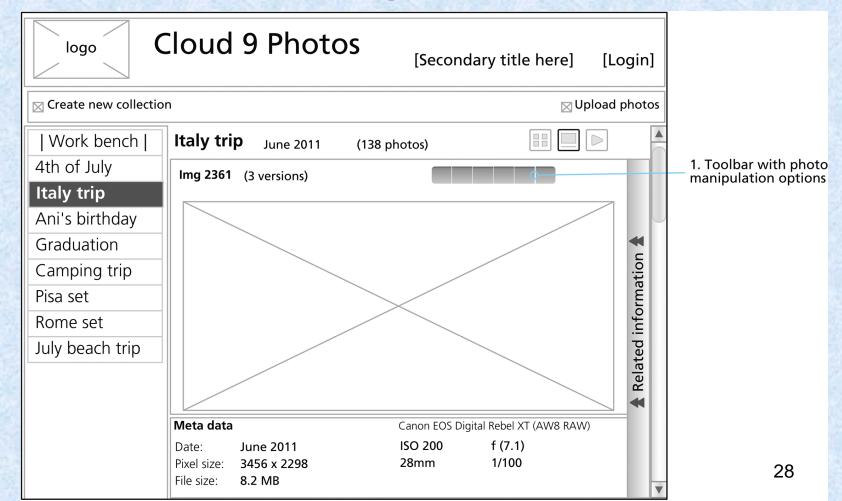
Example, show behavior

 What happens when a user clicks on vertical "Related information" bar



Example, show behavior

 What happens when user clicks "oneup" icon in upper right hand corner



How are wireframes used?

- Conversational props to discuss design alternatives
- To elicit feedback from potential users and other stakeholders
- Helps you keep your eye on information architecture on screen

How are wireframes used?

- Designer can move through deck of wireframes
 - One slide at a time
 - Simulating potential scenario
 - Pretending to click on interaction widgets

How to build wireframes?

- Any drawing or word processing software
 - To support creating and manipulating shapes

Tools for wireframe mockups

- Tools designed specifically for this purpose
 - OmniGraffle (for Mac)
 - Microsoft Visio (for PC)
 - Balsamiq
 - Adobe InDesign

How to build wireframes?

- Templates available for many basic shapes and UI objects
- Some parts of wireframe can be generic, others detailed
- · Can add color, graphics, real fonts

Hints and tips for wireframing

- Be able to create multiple design representations quickly
- Keep it modular—just as with any prototyping technique
 - Not too many concepts or details "hard coded" in any one frame
 - Build up using layers
 - Use separate layer for each repeating set of widgets on screen

Hints and tips for wireframing

- Example, container "window" of an application with its different controls
 - Specify once as layer and reuse in subsequent screens
- Use stencils, templates, and libraries of widgets
 - Avoid re-inventing widgets
- Find shared objects in tool libraries