

COSC 368: HUMANS & COMPUTERS

Carola Thompson
Visiting Erskine Fellow
University of Canterbury, Christchurch

Week 5, Lecture 2

Today

- AMA
- Skeleton Plane – Part II
 - *Wireframing & Prototyping*

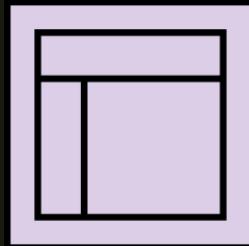


Ask Me Anything

Assignment #1 Due Dates & Times

Computer Lab A

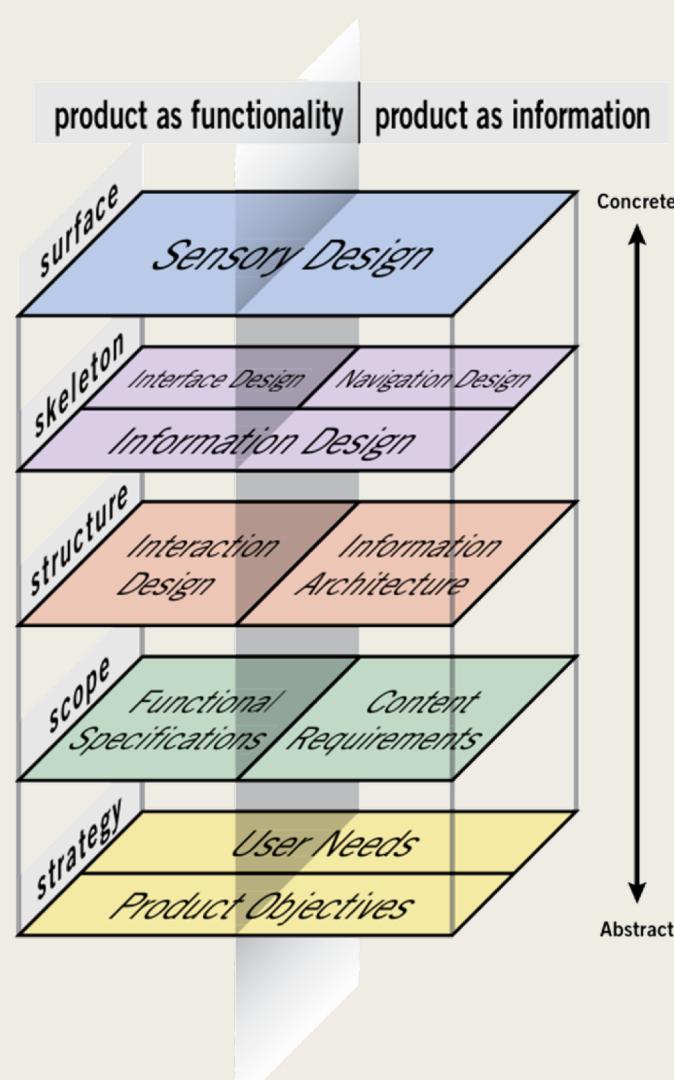
Activity	Day	Time	Due Date	Time
1	Wednesday	09:00 - 11:00	Sept 12	7:00
2	Monday	09:00 - 11:00	Sept 10	7:00
3	Wednesday	11:00 - 13:00	Sept 12	9:00
4	Friday	15:00 - 17:00	Sept 14	13:00



THE SKELETON PLANE – PART II

Jesse Games Garrett

Moving from structure
to skeleton: moving
from conceptual to
concrete placement



Skeleton Plane

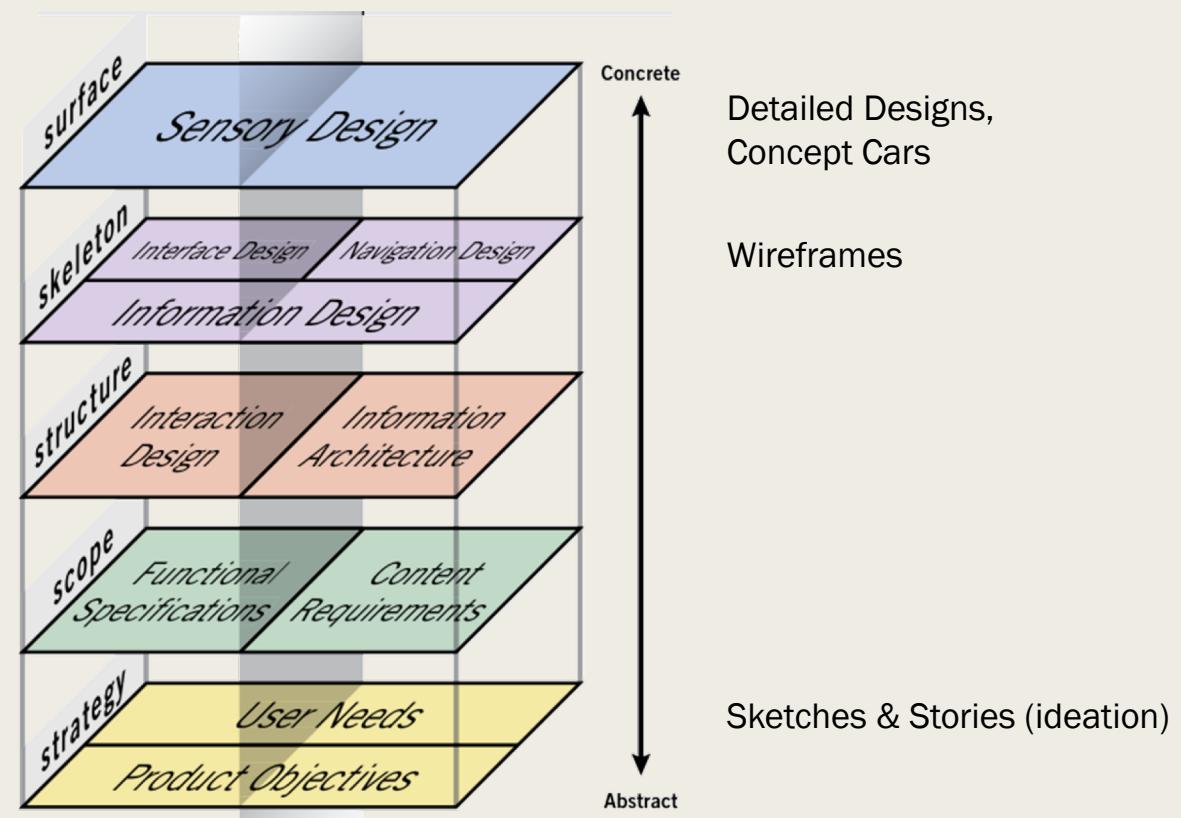
- Information Design
- Navigation Design
- Interface Design



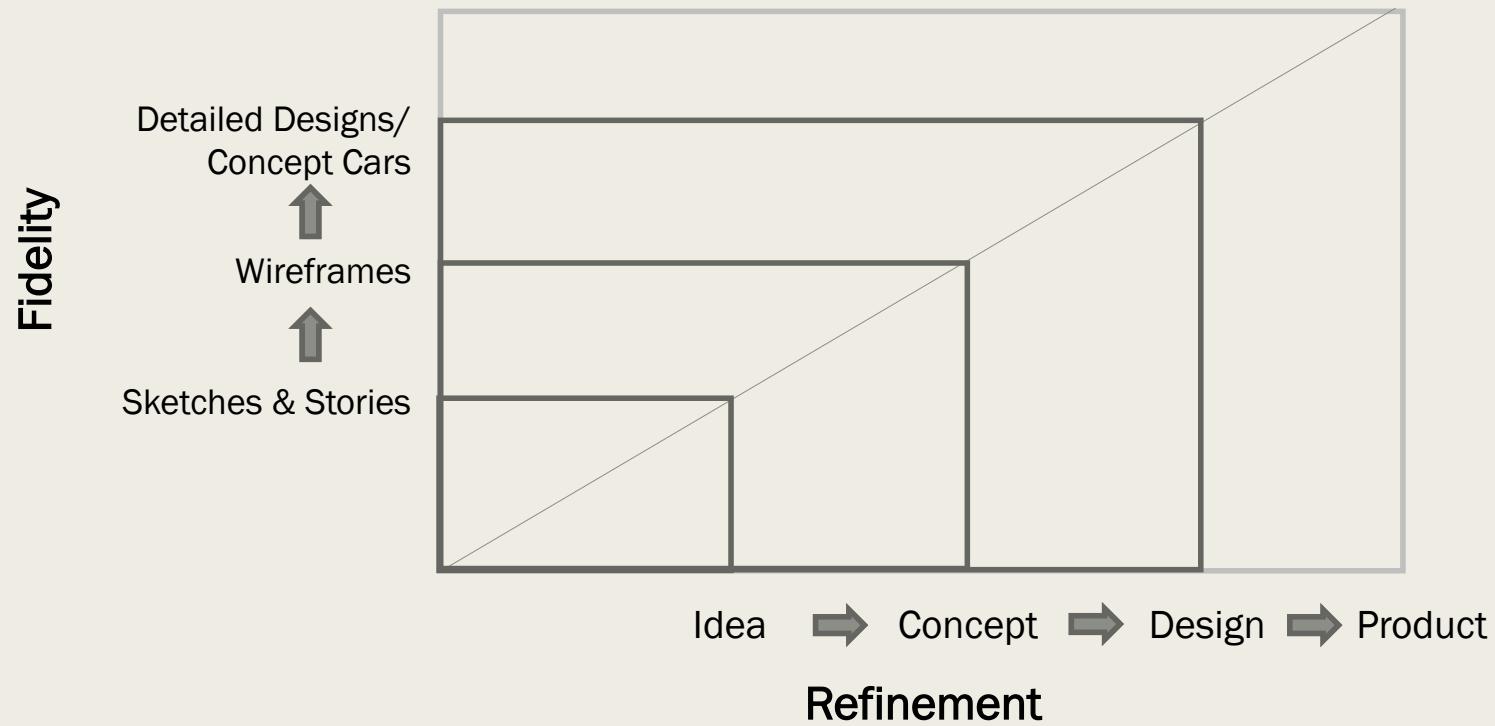
- Putting it all together in wireframing and prototyping



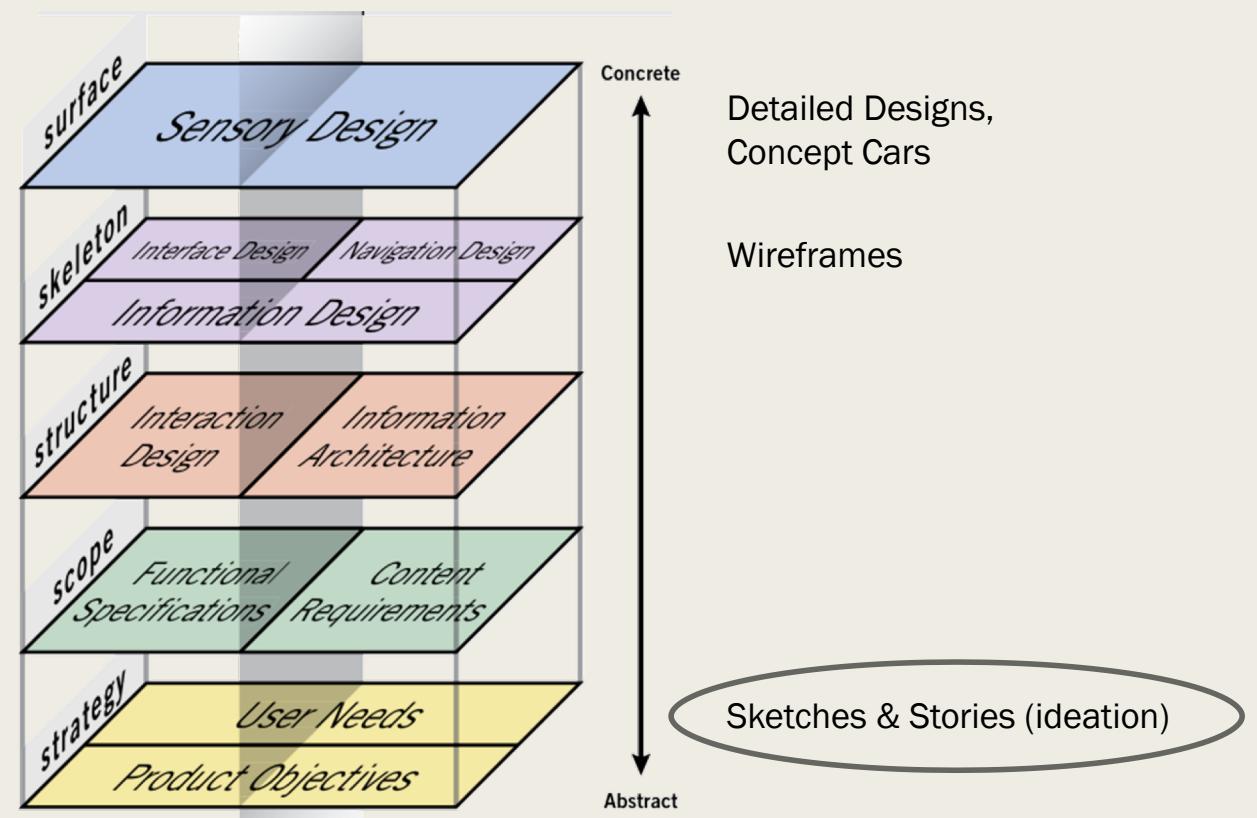
Prototyping: the bigger picture

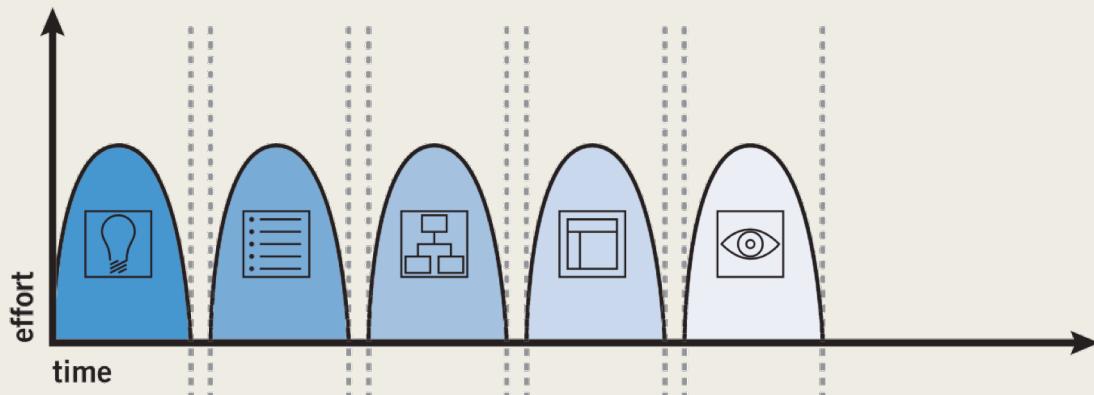


Prototyping: Alignment of Refinement to Fidelity

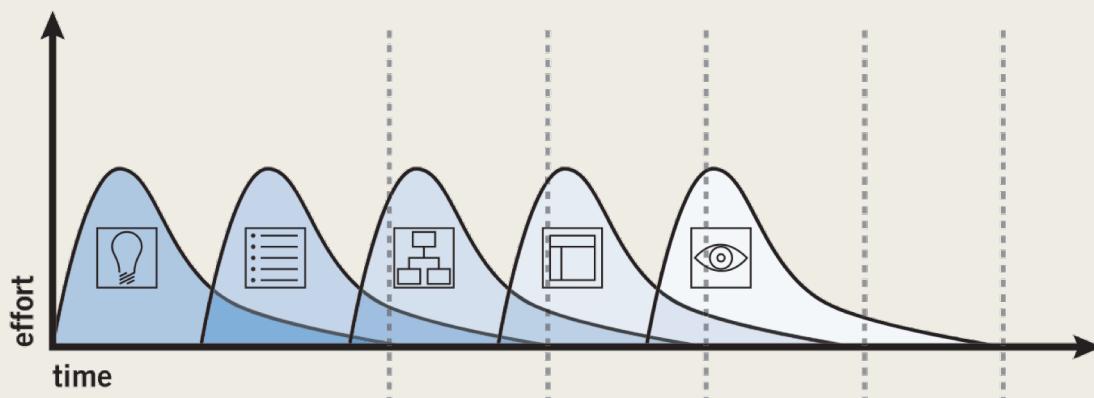


Prototyping: the bigger picture





Requiring work on each plane to **finish** before work on the next can **start** leads to unsatisfactory results for you and your users.

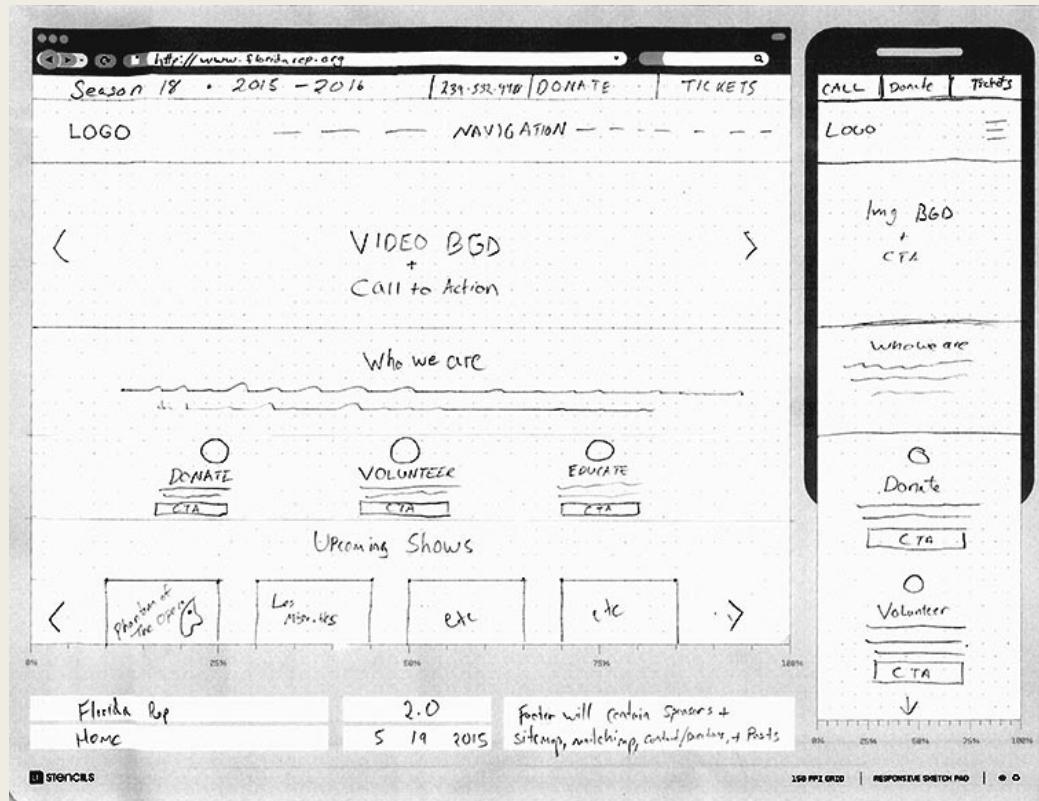


A better approach is to have work on each plane **finish** before work on the next can **finish**.

Wireframes

- Blueprint
- Brings together Information Design, Navigation Design and UI Design
- Surfaces the Conceptual Model for the User
- Excellent for getting user feedback on Conceptual model
- May be enough for dev team to code from
- Note: No Surface design yet

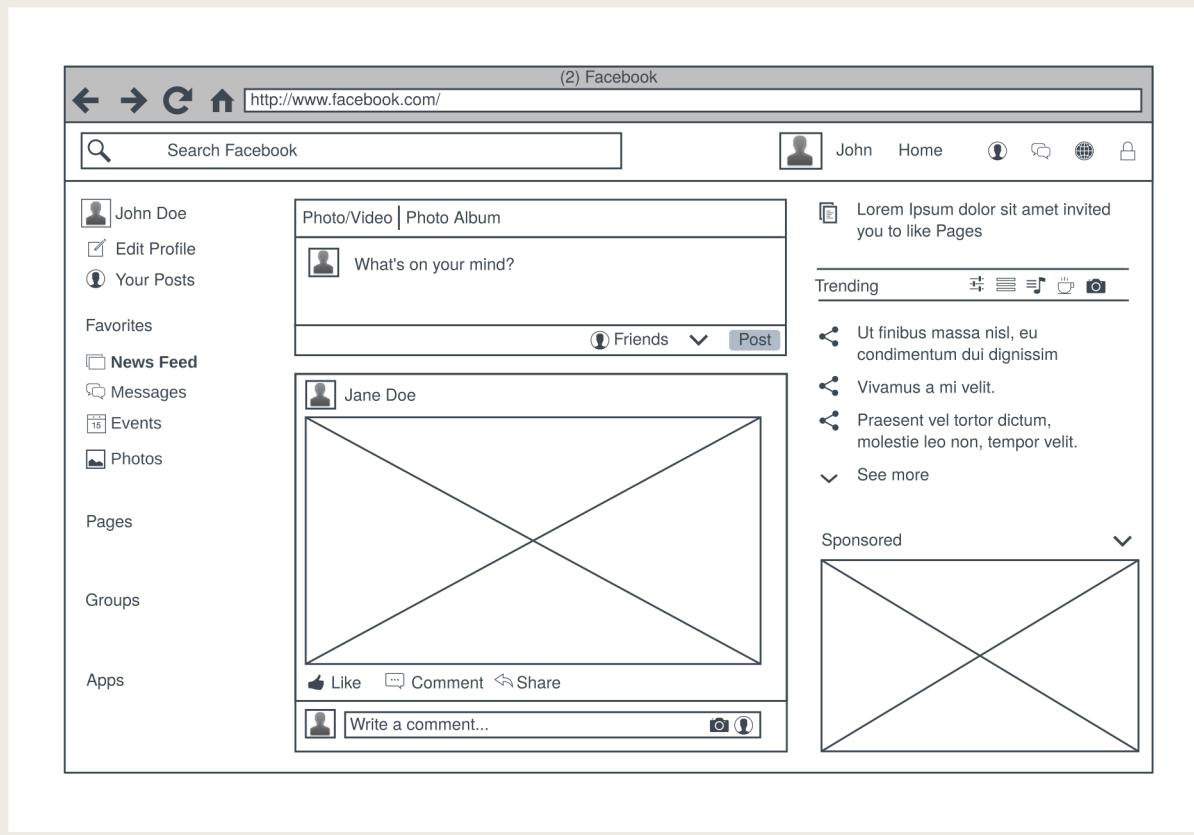
Wireframe Example #1



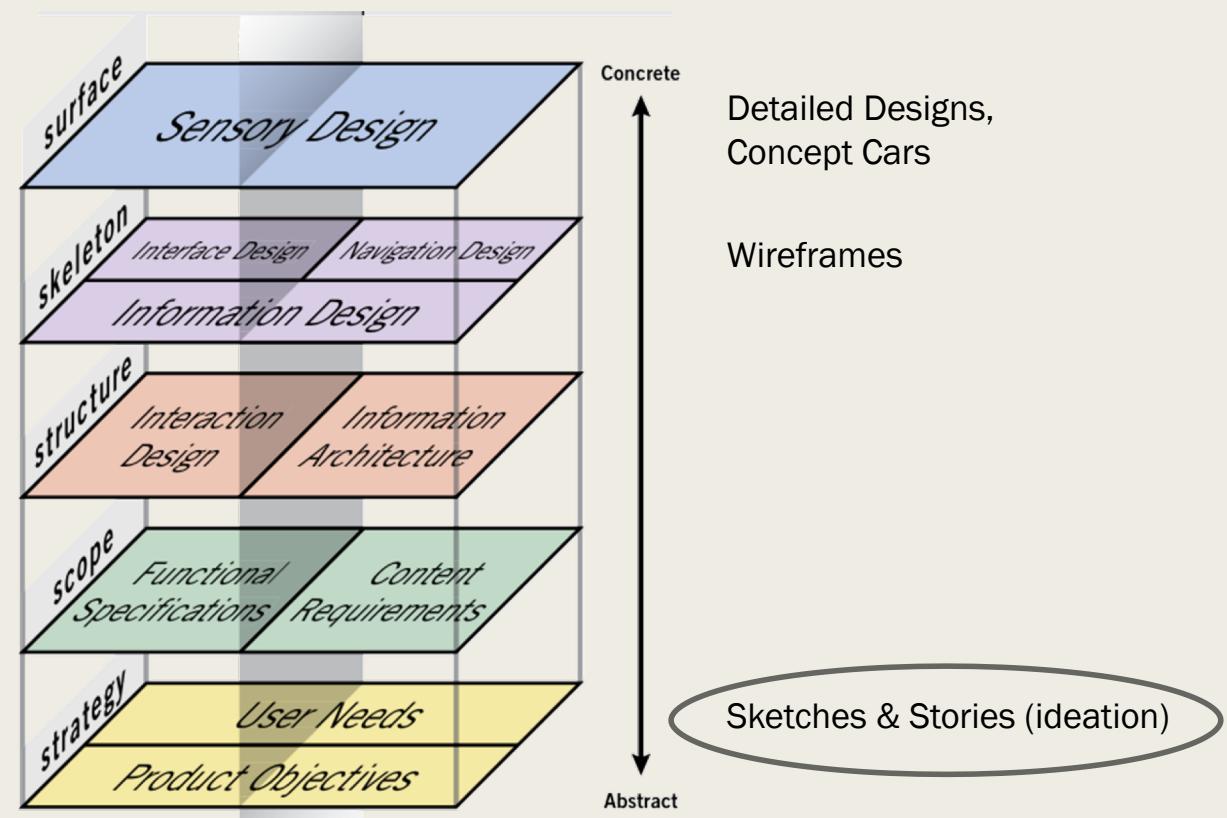
Wireframe Example #2



Wireframe Example #3



Prototyping: the bigger picture



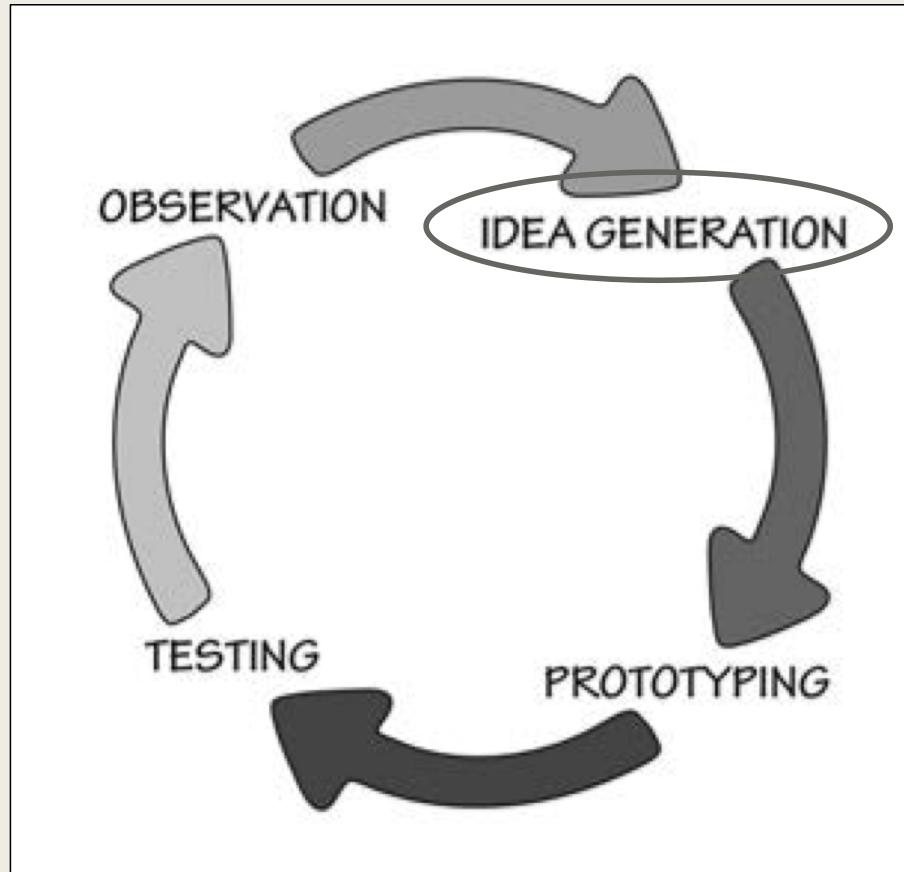


FIGURE 6.2. The Iterative Cycle of Human-Centered Design. Make observations on the intended target population, generate ideas, produce prototypes and test them. Repeat until satisfied. This is often called the *spiral method* (rather than the circle depicted here), to emphasize that each iteration through the stages makes progress.

Source: Don Norman

Contextual Design Process



Source: Holtzblatt & Beyer

Ideation: Visioning Workshop

- The Wall Walk
 - *walk the affinity diagram*
 - *Review the consolidated contextual design models*
- The Visioning Session
 - *Divergent and convergent thinking*
 - *Story telling – from persona's perspective*
 - *Hot Idea Vision Creation - build*

Ideation in the Context of Agile Requirements Management



Sketches and Stories

- Tell the story of the users interaction with the system in a larger context
- Sketch omit a lot of the detail of the ui
- Very fast to create
- Good for getting high level ideas across and validating them

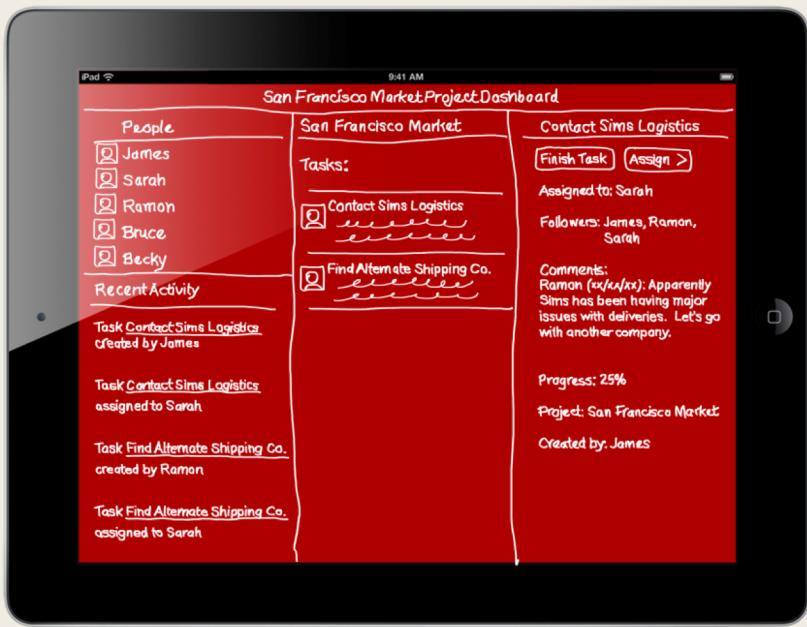
Sketches & Stories Example

Managing work with mindjet



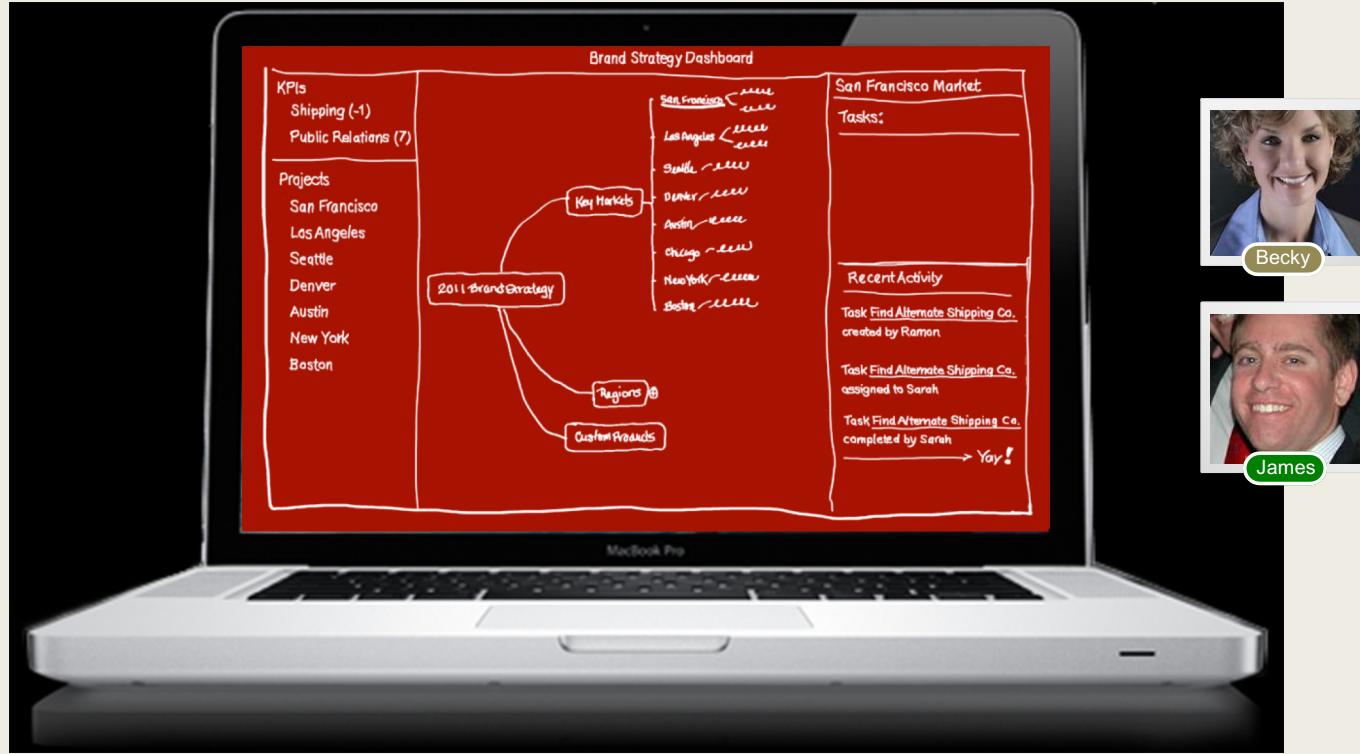
Management dashboards

 **mindjet** Vision Story



 **mindjet** Vision Story

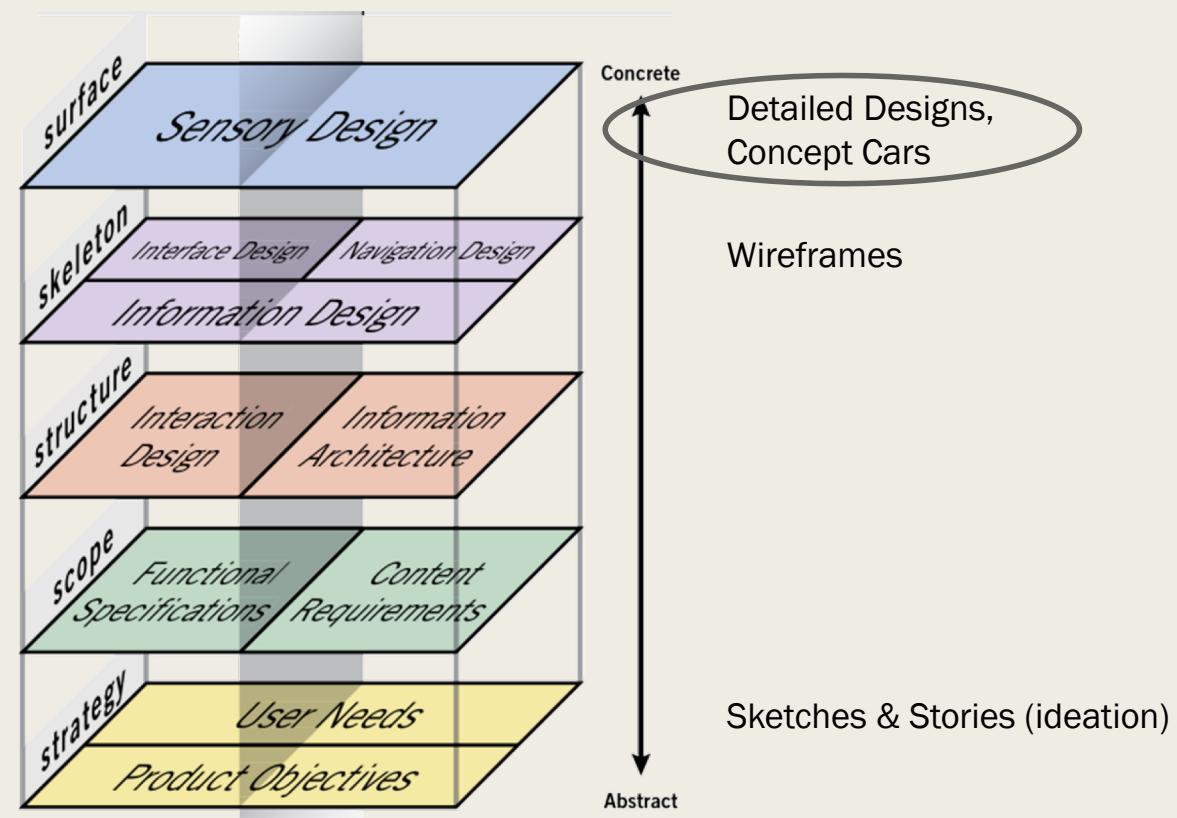
Activity streams



mindjet Vision Story

Real-time team communication

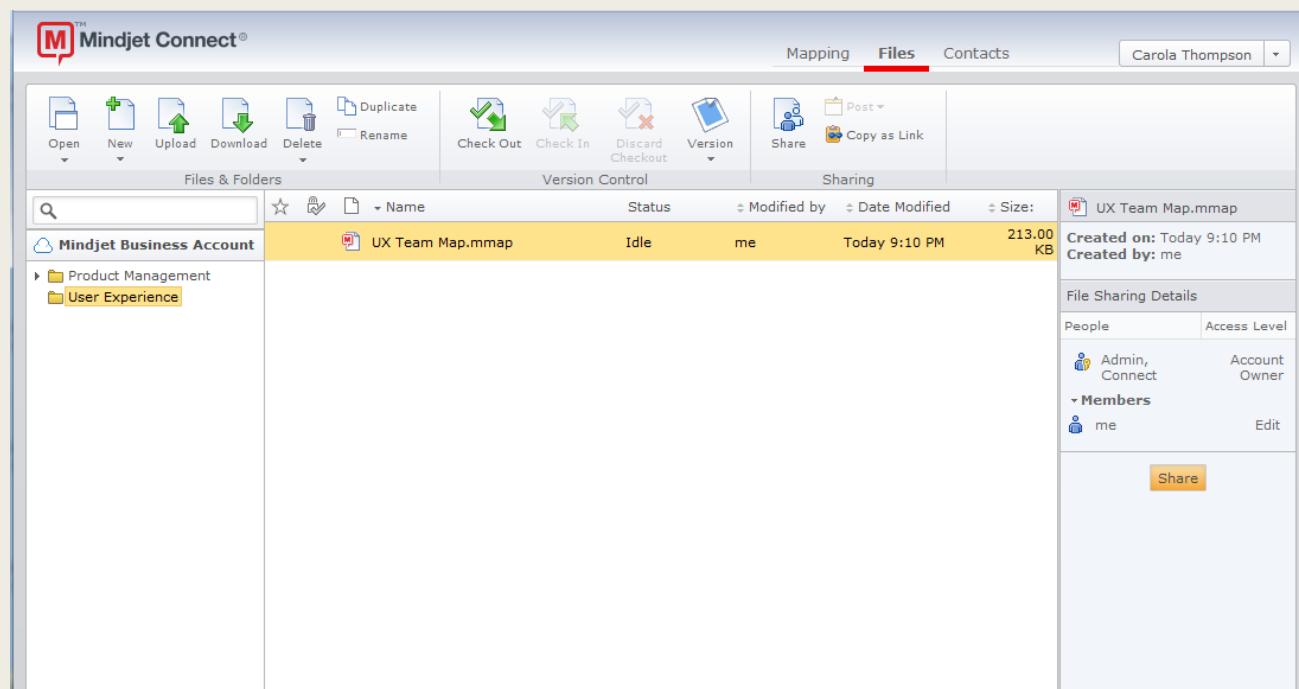
Prototyping: the bigger picture

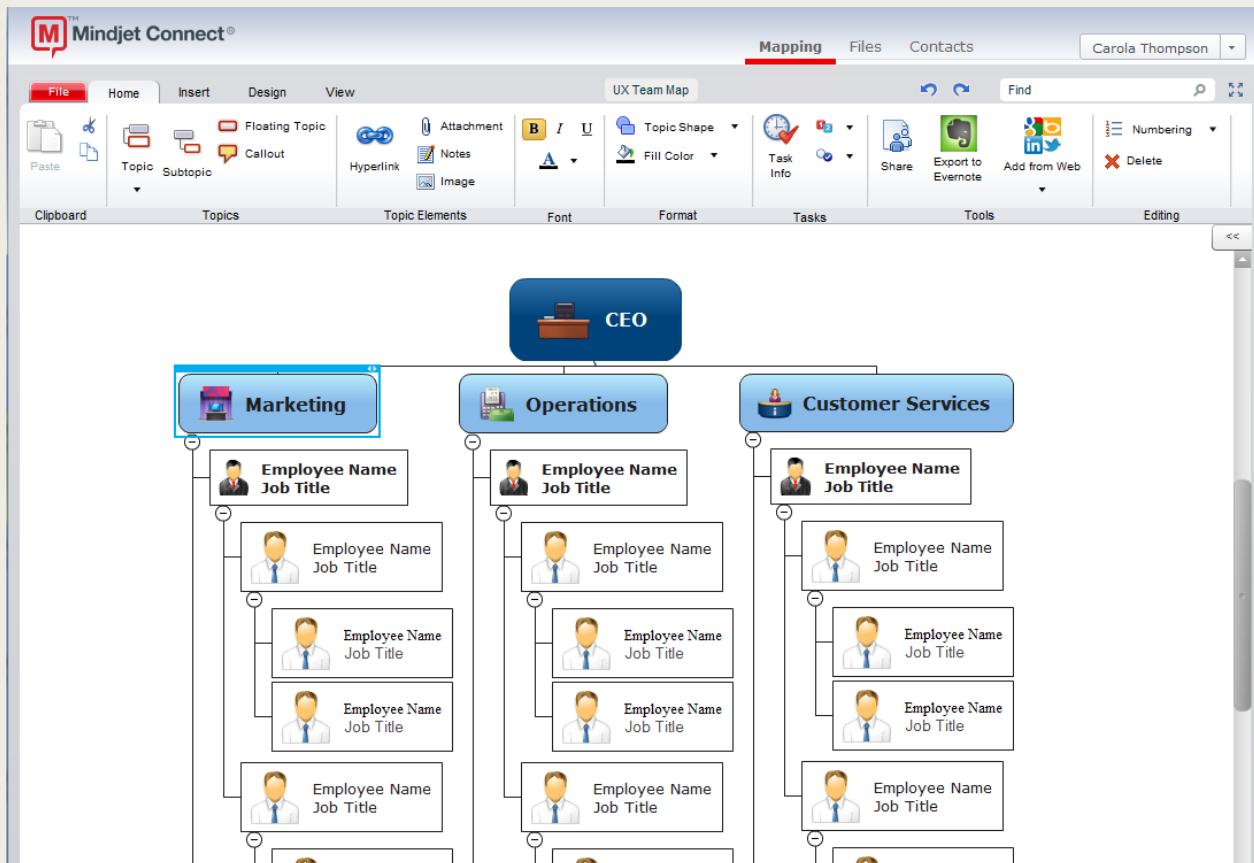


Detailed Designs

- Includes Visual Design and other Sensory Design
 - *Branding*
 - *Style Guide*
 - *Icons*
 - *Color Palettes*
- Includes all details necessary to build including
 - *page flows or interactivity*
 - *Edge and error cases*
 - *Must be feasible*

High Fidelity – Surface included





Concept Cars

- Created to inspire to set a vision
- Includes Visual Styling and other Sensory design
 - *May or may not be align with brand*
- Very high fidelity, but only along the “happy path”
- May not be buildable today
- Slippery slope

Concept Car Example

Liz Fulton

Tasks

- Find Replacement Supplier
- Voice project wiki page
- Fellowship program 2007 (summer round)
- Identify list of vendors

Reference

- Supplier Workspace
- Avpur Jawle

Calendar

- Supplier Substitution Today
New Time: 11:00 PM
- Lunch with Tim
New Time: 12:00 PM

Settings | My Profile Connected

SAP Eventus Prototype

Find supplier click to edit
Show Process | Supplier Cancellation

Assign Share Meet | Copy Print | Delete Complete | Help

Info Panel

- + Details
- + Tags
- + Assigned to
- + Shared with...
- + Meetings

Task Pad

- Edit | Reorder Tasks
- Type or drag an item here to create a new task
- Identify list of vendors
- Click here to assign task
- Analyze vendor quality reports
- Click here to assign task
- Pre-select vendors
- Click here to assign task
- Get Quotes
- Click here to assign task
- Get Samples
- Click here to assign task
- Evaluate part quality
- Click here to assign task
- Make vendor decision
- Click here to assign task

Commentary

- + Show all
- Type here to create a comment
- Liz Fulton
Yes, I actually met with them at TechCom last week. I'm planning on getting more info from them, thc.
- Peter Danoo
Have you checked out NeoTech?

01:48 PM Today 01:42 PM Today

Bookshelf

Name	Size	Modified	Modified By
Supplier Cancellation.doc	10.5 KB	Feb 26, 2007 1:52:08 PM	Peter Danoo

Approved Manufacturer Parts

PIC-ABS-210: Programmed Integrated Circuit		Internal Material Number	Manufacturer	Valid From	Valid To
<input type="checkbox"/>	Create Request for Quotation	PIC-ABS-210-0001	TAIWAN	Oct 15, 2001	Oct 11, 2007
<input type="checkbox"/>	Analyze Manufacturers	PIC-ABS-210-0002	ALLEGHENY	May 01, 1998	Apr 30, 2003
<input type="checkbox"/>		PIC-ABS-210-0003	FASCHIP	Feb 18, 1997	Feb 17, 2002
<input type="checkbox"/>		PIC-ABS-210-0004	TENCORP	Sep 15, 1999	Sep 14, 2005
<input type="checkbox"/>		PIC-ABS-210-0005	LUKENS	Apr 23, 1992	Apr 22, 1997

Manufacturer Analytics

DPPM - Defects Parts Per Million

Vendor	DPPM
ALLEGHENY	~110
FASCHIP	~80
LUKENS	~70
TAIWAN	~45
TENCORP	~55

RTY - Roll Throughput Yield

Vendor	RTY
ALLEGHENY	~85%
FASCHIP	~88%
LUKENS	~75%
TAIWAN	~82%
TENCORP	~80%

RFQ Status

Create Purchase Order		RFQ	Manufacturer	MFR Material Number	Status	Unit Price	Currency	Date Requested	Reply Deadline
<input type="checkbox"/>		600000196	FASCHIP	PIC-ABS-210-0003	Complete	20.00	USD	Jan 25 2007	Feb 19 2007
<input type="checkbox"/>		600000197	TENCORP	PIC-ABS-210-0004	Complete	23.00	USD	Jan 25 2007	Feb 19 2007
<input type="checkbox"/>		600000198	NEOTECH	PIC-ABS-210-0006	Complete	19.00	USD	Jan 25 2007	Feb 19 2007

Traditional
ABAP-based
Screen

The screenshot shows a SAP application interface with two main tables: 'BOM CHANGES' and 'CHARACTERSTIC CHANGES'. The 'BOM CHANGES' table has columns: Doc.No., Date, Time, Changed By, Object ID, and BOM. The 'CHARACTERSTIC CHANGES' table has columns: Doc.No., Date, Time, Name, TCod, Char.Name, Char.Value, and Char.De. Both tables show data entries with some rows highlighted in yellow.

Doc.No.	Date	Time	Changed By	Object ID	BOM
0004050810	11/13/2008	13:16:21	KOSLOWSKI	120K00224048	00224048
0004050807	11/13/2008	13:16:20	KOSLOWSKI	120K00224048	00224048
0004050804	11/13/2008	13:16:20	KOSLOWSKI	120K00224048	00224048
0004050723	11/13/2008	13:09:01	KOSLOWSKI	120K00224048	00224048
0004050720	11/13/2008	13:09:00	KOSLOWSKI	120K00224048	00224048
0004050715	11/13/2008	12:58:40	KOSLOWSKI	120K00224048	00224048
0004050712	11/13/2008	12:58:38	KOSLOWSKI	120K00224048	00224048
0003981456	10/21/2008	23:33:11	SPARTA04	120K00224048	00224048
0003981452	10/21/2008	23:33:10	SPARTA04	120K00224048	00224048
0003981448	10/21/2008	23:33:08	SPARTA04	120K00224048	00224048
0003981445	09/22/2008	09:44:10	XIUSER	120K00224048	00224048

Doc.No.	Date	Time	Name	TCod	Char.Name	Char.Value	Char.De
00039803160	09/22/2008	09:44:13	XIUSER		ASA_WAREHOUSE	00	00
					GL_FINISH_COLOR	SMOKE GRAY	Smoke
					GL_FINISH_NUMBER	AL203	
					GL_FINISH_TYPE	ACROFLUR	Acroflur
					KB_SENDS_BOM	NO	No
					LV_BIRDSCREEN	NO	No
					LV_BLADE_THICKNESS	0.0810	
					LV_BLANK_OFF_PANELS	NO	No
					LV_EXTENDED_SILL	NO	No



Concept Car Example



Anatomy of Home

The screenshot illustrates the "Anatomy of Home" with the following components labeled:

- Global Navigation & Search bar**: Located at the top, featuring the Mindjet logo, navigation links (Home, Mindspaces, Library, New), and a search bar.
- Mindspace Hub control bar**: A vertical bar on the left side of the main content area, containing the "Mindspace Hub" title and a "Mindspace Hub" button.
- Mindspace Hub**: The main content area displaying the "My Connections", "My Work", and "My Calendar" sections, along with the "Mindspace Hub" grid.
- My Connections**: Shows a circular network of user profiles.
- My Work**: Lists urgent tasks, recent files, and high-level goals.
- My Calendar**: Displays a calendar for December 2012, showing scheduled events and tasks.
- Sidebar**: On the right, it shows a sidebar profile for Jill Mattson, a list of "Up Next" tasks, and a "Latest Activity" feed.

Concept Car Example



The screenshot displays the Mindjet platform interface. At the top, there's a navigation bar with 'mindjet' logo, 'Home', 'Mindspace', 'Library', and 'New'. A 'Control bar' includes a search field ('Search everywhere') and a date range ('DECEMBER 2012').

My Connections: Shows a network graph of users.

My Work: Lists tasks and goals. Tasks include:

- 13 DEC Finish United's mobile app proposal in Business development (due 12 Dec)
- 27 DEC Write John an update on project status in ChefsFeed
- 13 DEC Finalize pitch deck in Nike Plus (due 12 Dec)
- 19 DEC Adipiscing Quam Cras Amet in ChefsFeed (due 2 Dec)
- 20 DEC Consectetur Fusce Magna Purus in Nike Plus (due 1 Dec)

My Calendar: A monthly calendar for December 2012.

Mindspace list: A grid of 'Mindspace +' cards. One card, 'Huddle Up', is highlighted with a yellow border. Other cards include:

- My Mindspace:** Due 15 JAN, Finish blog design (15 JAN, 29 JAN).
- Blog post ideas:** Due 15 JAN, Finish blog design (15 JAN, 29 JAN).
- ChefsFeed:** Due 29 JAN, Final SOW for iPhone app and landing page (Nate Clinton).
- AC Copywriters:** Due 29 JAN, Write annual reviews and submit (Mark Kaufman).
- Nike Plus:** Due 16 DEC, Finalize research schedule (First Last, Nate Clinton).

Control bar: Includes 'Sort' and other interface controls.

Right sidebar: Shows 'Up Next' tasks, 'Latest Activity' (e.g., Ben Paulick added 3 images to White Hat Press), and a profile for Jill Mattson.

Concept Car Example



Anatomy of a Mindspace

Mindspace title, toolbar, and timeline toggle

A screenshot of the Mindjet interface. At the top, there's a navigation bar with 'View toggles' and 'View content area'. Below the navigation is the 'mindjet' logo and a search bar. The main area is titled 'HuddleUp' with sub-options 'Add', 'New', and 'Start meeting'. On the left, there's a sidebar with icons for file types like Word, Excel, and PDF. In the center, there are two main nodes: a green circle labeled 'HuddleUp Project Files' and a teal circle labeled 'Website Redesign'. The 'Website Redesign' node has several smaller circular icons branching from it. To the right of the nodes is a 'Project Planning' section with a '+' button. At the bottom right, there's a 'Possible Idea' card with options like 'Open', 'Add To Mindspace', 'Remove From Mindspace', and 'Create Design Brief'. On the far right, there's a vertical sidebar for 'Kristin Johnson' showing activity logs and a 'Latest Activity' feed.

Fidelity and Users

- Lower fidelity prototypes
 - *tend to illicit more honest feedback.*
 - *are better for validating ideas and concepts*
- Higher fidelity prototypes are better for refining finer interactions

Fidelity and Stakeholders

- With lower fidelity you can focus your audience in on the concept and avoid the discussion about the color of the buttons
 - *If you are looking to show an idea or concept, the surface design may get in the way.*
- Higher fidelity can also lead key stakeholders to believe that an idea or concept is closer to completion and expectations for delivery may increase

Fidelity and Development

- Just Enough Design (JED) vs. Big Design Up Front (BDUF)
- Cost of prototyping goes up with Fidelity
- Different organizations and devs need higher and lower fidelity

Prototyping and Assignment #1

- Create 3 alternative design concepts for the same problem space in low fidelity
 - *Sketch and story level. Can include wireframes*
- Use Pencil & Paper or Balsamiq (or other tool)

Prototyping Software Now Available

- Check out the new Prototyping Software section on Learn
 - *Balsamiq*
 - *Invision*
- <https://www.youtube.com/watch?v=MxWTGBQE7zE&t=131s>

Next time:

- Mid-semester test