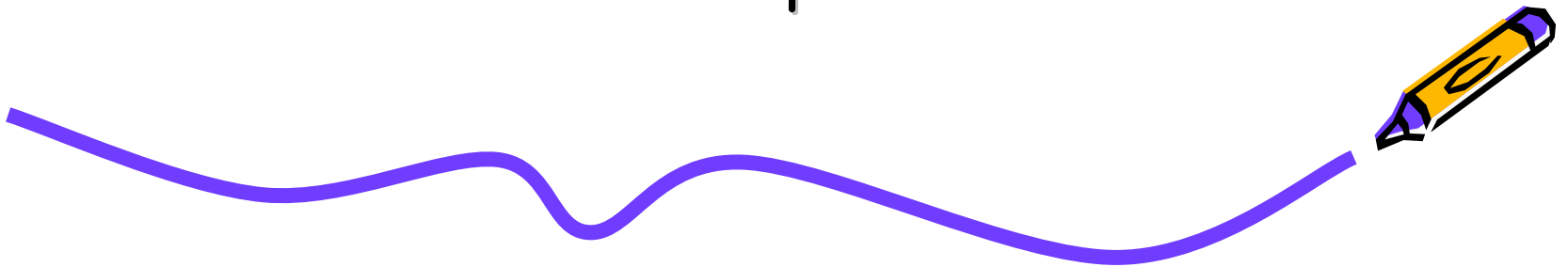


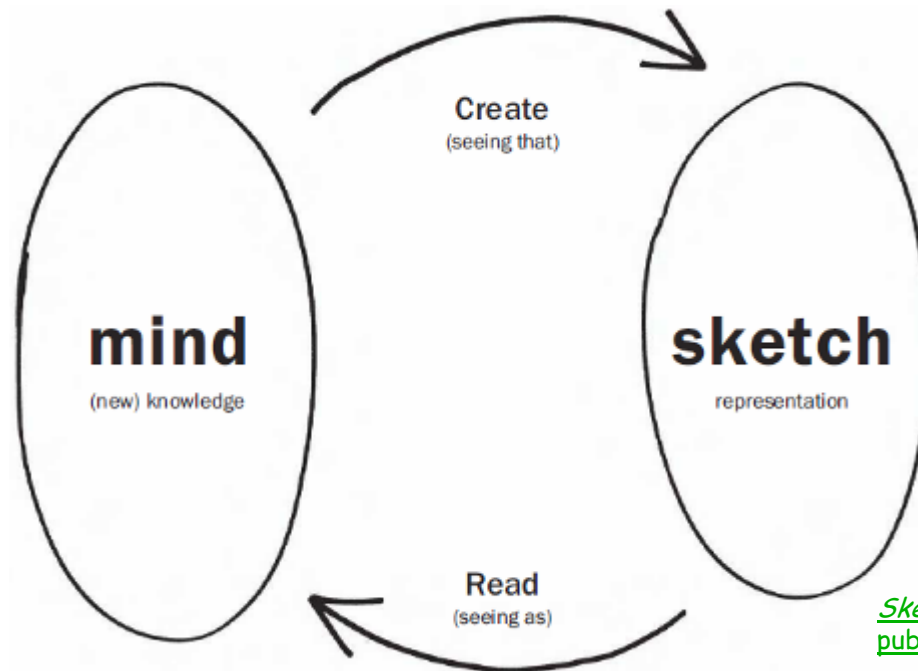
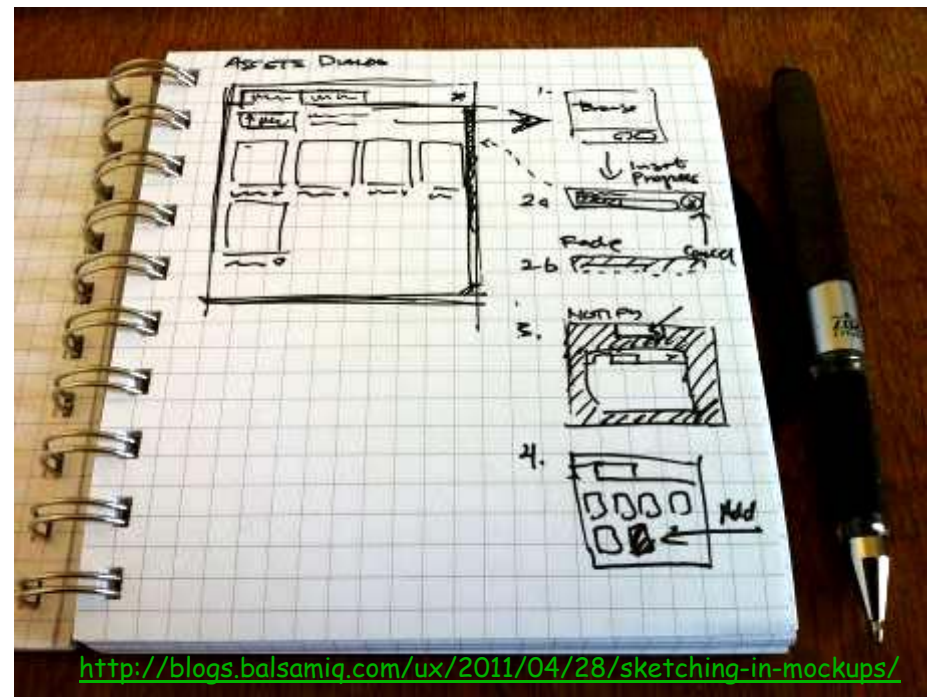
# Quick Primer on Sketching for Lo-Fi User Interface Prototypes

CZ2004 Human-Computer Interaction



# Why Sketch?

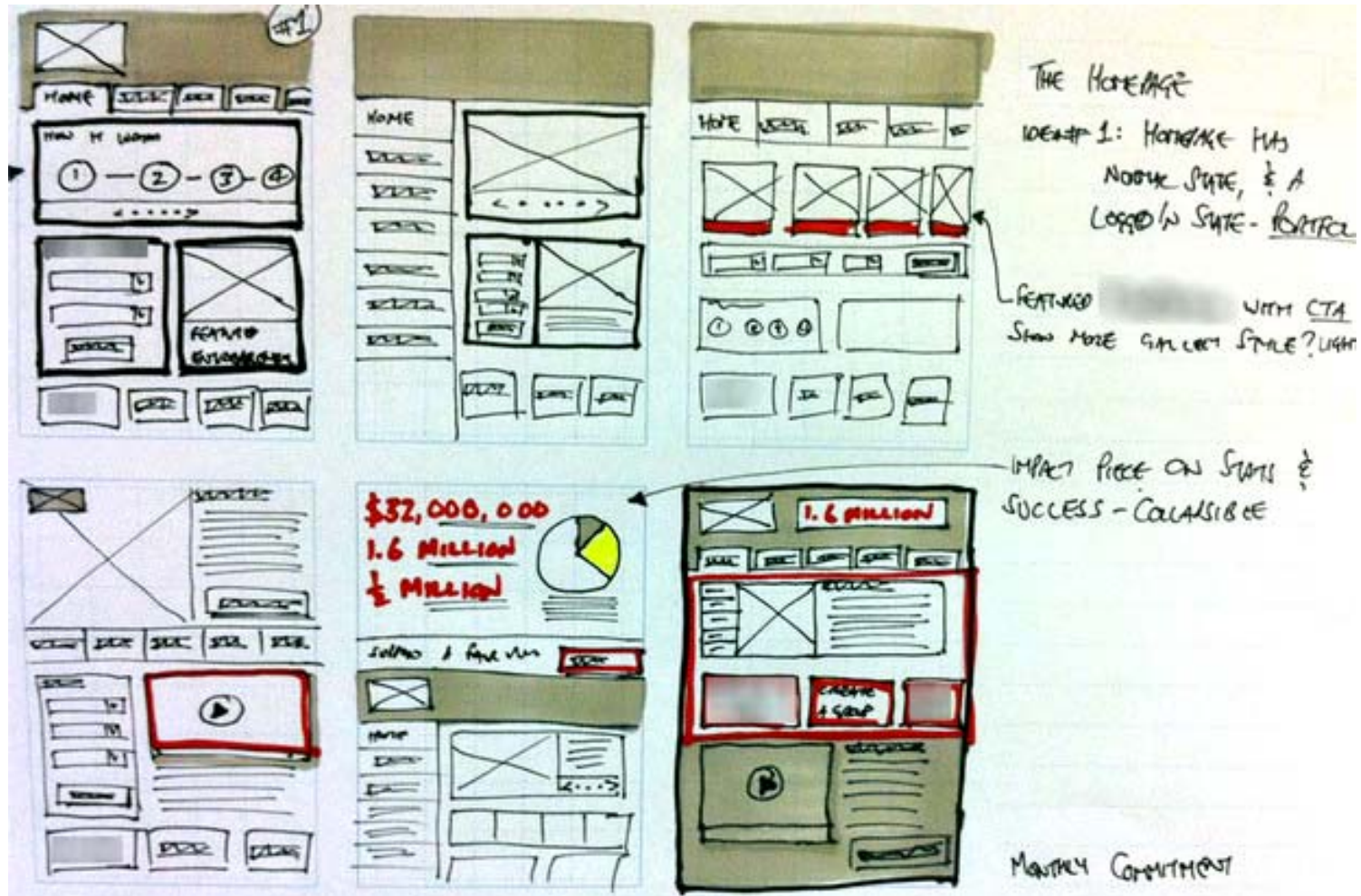
Visualize your thoughts *fast*, without worrying about details



*Sketching User Experiences*, by Bill Buxton,  
pub. Morgan Kaufmann, 2007

# Why Sketch?

Try out *many* different ideas quickly



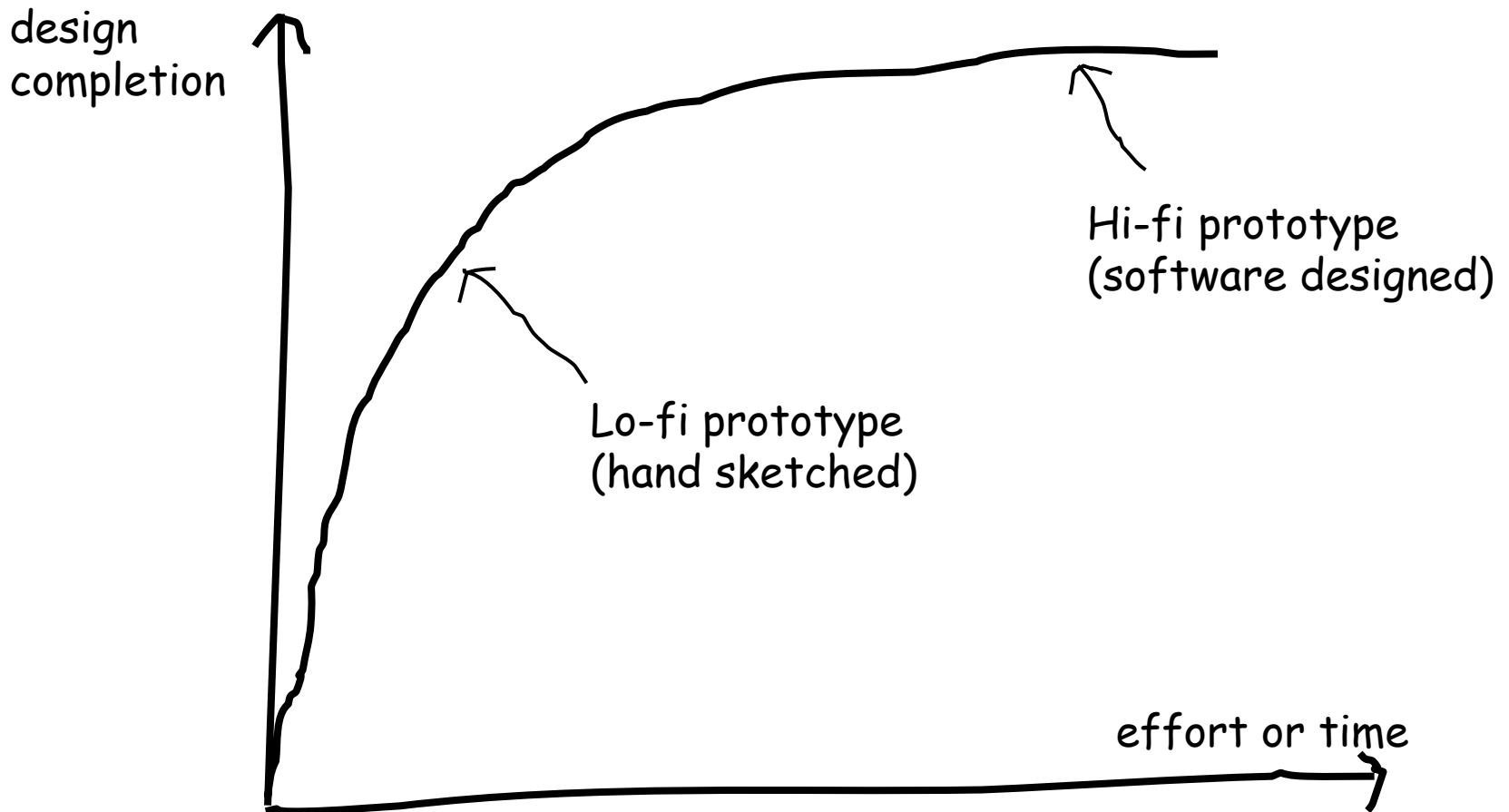
6-up lo-fi prototyping technique (see website)

<http://www.boxuk.com/blog/using-sketchboards-to-design-great-user-interfaces>

# Why Sketch?

## Avoid the 80-20 rule

= Last 20% of the final design takes up 80% of the effort!



# Prototyping

## Lo-Fi vs Hi-Fi

<ul style="list-style-type: none"><li>• Used for exploring ideas</li></ul>	<ul style="list-style-type: none"><li>• Used for refining ideas</li></ul>
<ul style="list-style-type: none"><li>• Broadens thinking to different possibilities</li></ul>	<ul style="list-style-type: none"><li>• Narrows thinking towards a final solution</li></ul>
<ul style="list-style-type: none"><li>• Invites questions from reader</li></ul>	<ul style="list-style-type: none"><li>• Provides answers</li></ul>
<ul style="list-style-type: none"><li>• Tentative</li></ul>	<ul style="list-style-type: none"><li>• Definitive</li></ul>

# Hand-drawn vs software-based prototyping

From *Sketching User Experiences: The Workbook*, by Saul Greenberg et al., pub. Morgan Kaufmann, 2011

WHAT TO DO

Touch a different color or scan another item

WHAT YOU SELECTED

JPG STROLLER

☒ Green  
☐ Red  
☐ Blue

ITEM	STYLE	COST
JPG STROLLER	GREEN	98.00
~~~~~	~~~~~	~~~~~
~~~~~	~~~~~	~~~~~
TAX: 10.00		
TOTAL: 124.98		

ALL DONE ?

ORDER PRINT DISCARD

## Hand-drawn Lo-Fi

- informal, inexact, **fast**,  
**low effort**, looks good



What to do

Touch a different color or scan another item

What you selected

JPG Stroller

☒ Green  
☐ Blue  
☐ Red

Item	Style	Cost
JPG Stroller	Green	98.00
tax: 10.00		
Total: 124.98		

All done?

Order Print Discard

## Software-drawn Lo-Fi

- informal, inexact, somewhat  
fast, moderate effort, **looks  
very messy and jarring**



What to do

Touch a different color, or scan another item.

What you selected

JPG Stroller  
For children between 1-3 years old ...\$98.

☒ Green  
☐ Blue  
☐ Red (out of stock)

Item	Style	Cost
JPG Stroller	Green	98.00
tax: 6.98		
Total: \$104.98		

All done?

Place your order Print this list Throw this list away

## Software-drawn Hi-Fi

- formal, precise, **slow**, **heavy  
effort**, looks good

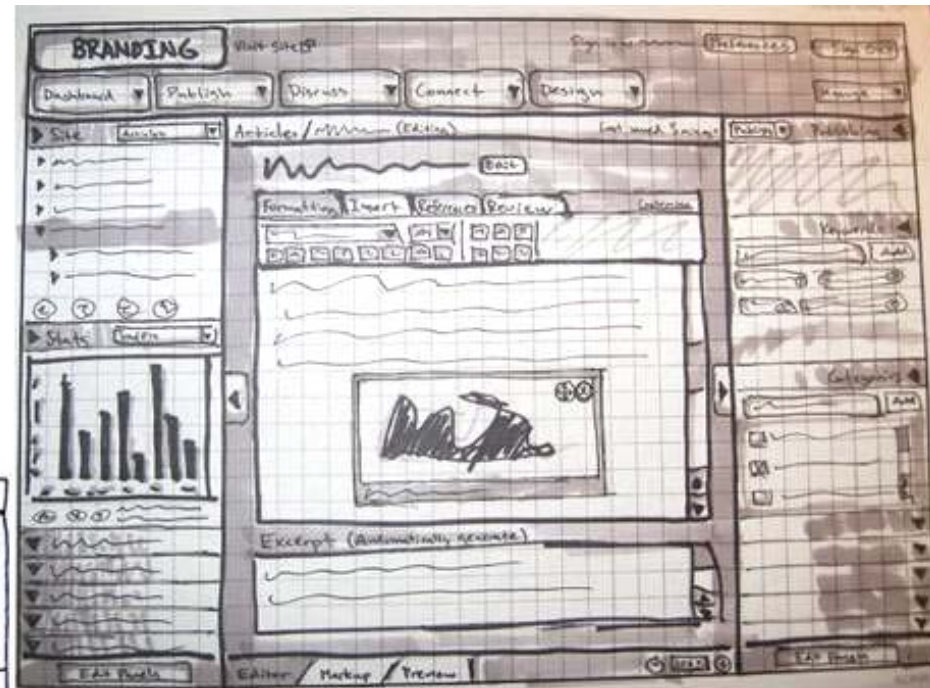
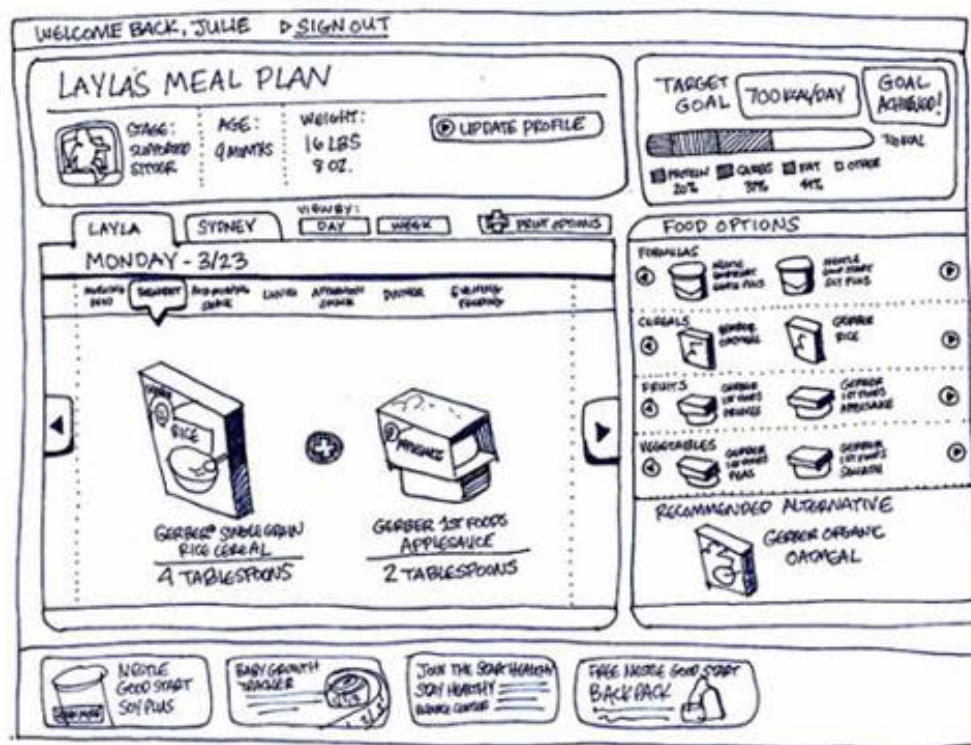


*too much effort now;  
for later*



# Possible things to sketch

## 1. The main interface itself

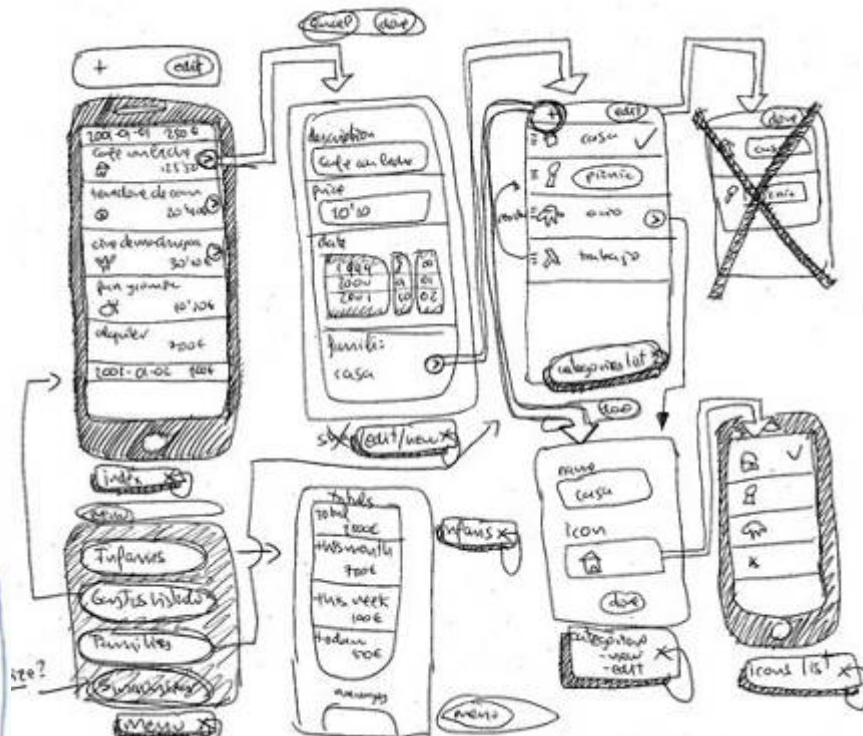
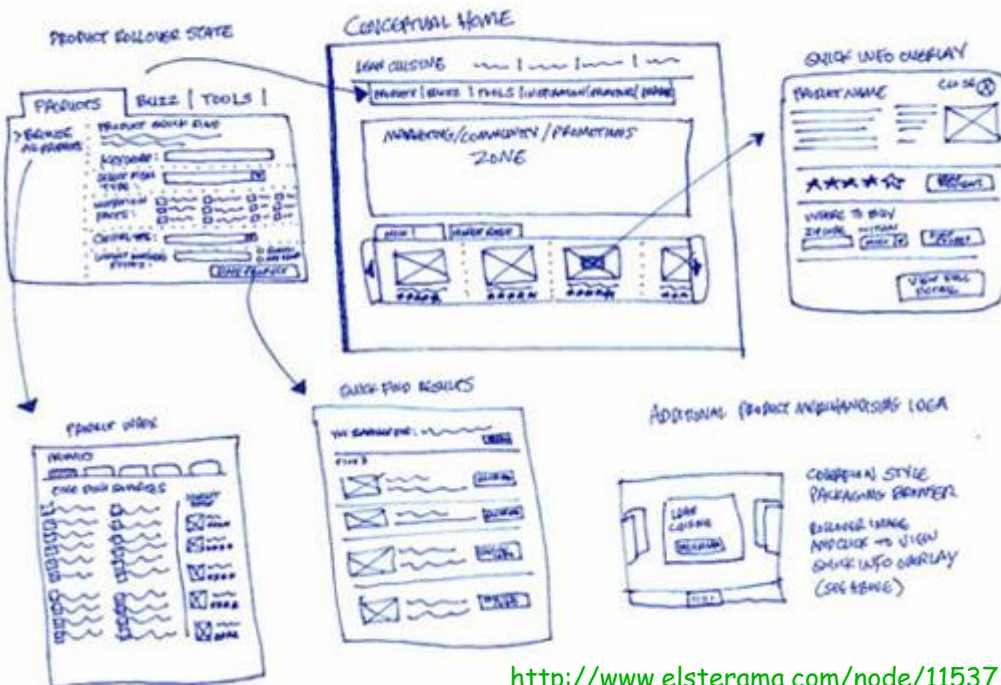


Examples from <http://www.elsterama.com/node/11537>

# Possible things to sketch

## 2. Different modes and transitions of the interface

FIND PRODUCTS



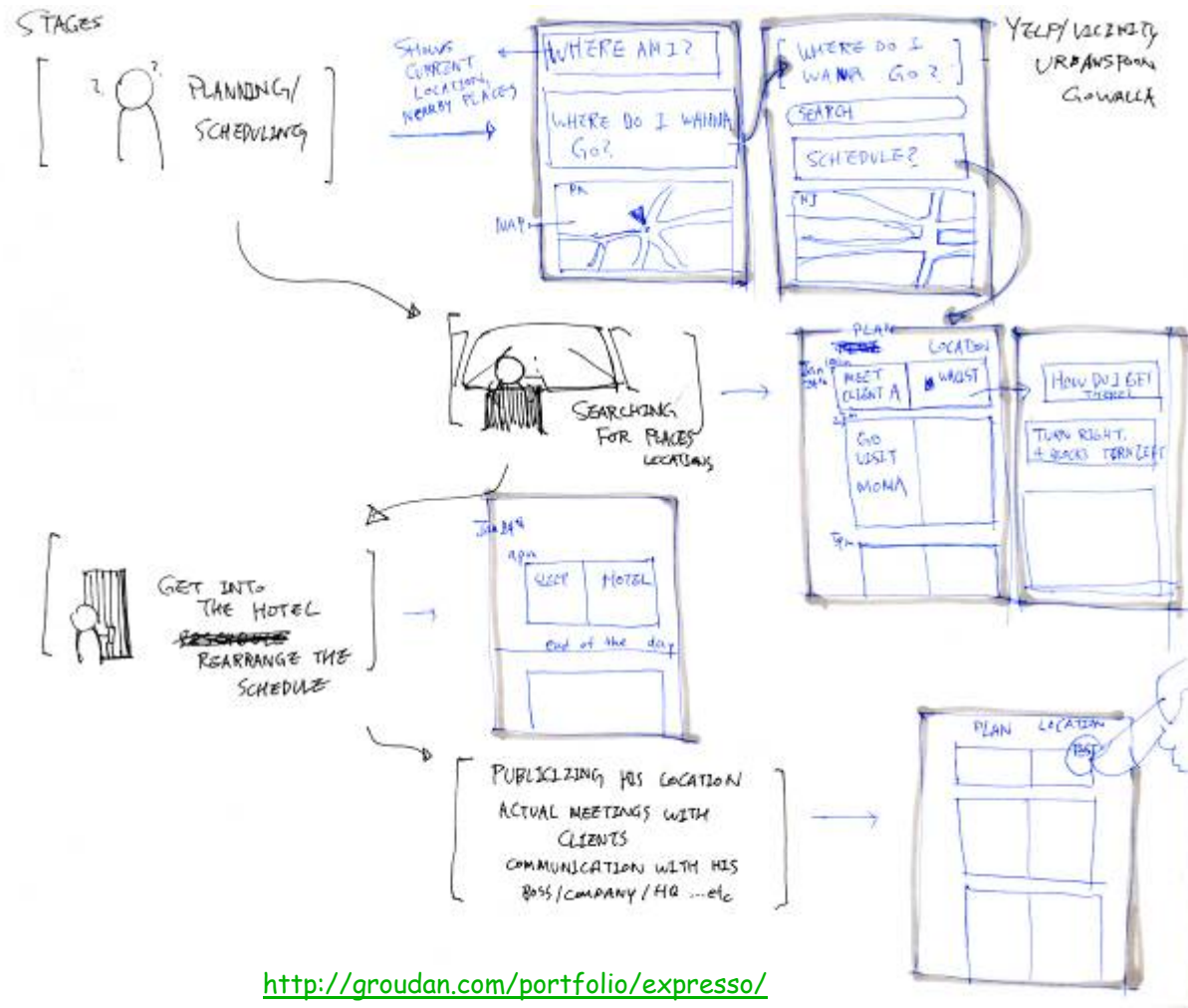
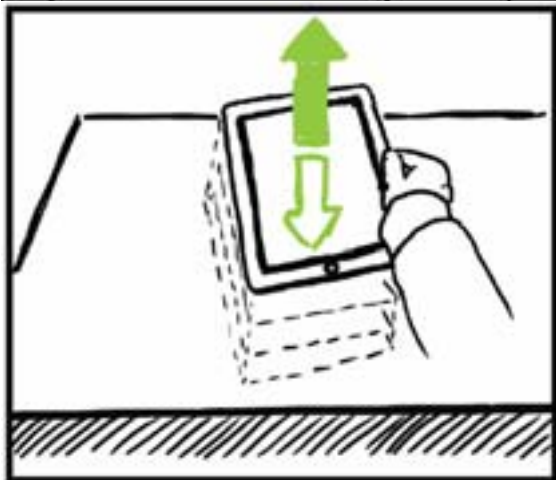
<http://sixrevisions.com/user-interface/website-wireframing/>

<http://www.elsterama.com/node/11537>



# Possible things to sketch

## 3. The user in action



<http://groudan.com/portfolio/expresso/>

*Sketching User Experiences: The Workbook*, by  
Saul Greenberg et al., pub. Morgan Kaufmann, 2011

# Don't Forget to Annotate

From *Sketching User Experiences: The Workbook*, by Saul Greenberg et al., pub. Morgan Kaufmann, 2011

- Use with a scanner + paper catalog
- Printer prints out current list & bar code so it can be scanned

① Wizard

Shopping person icon:

- cartoon?
- photo?
- video/audio?

② Shopping list

Issues

- can we avoid scrollbars for long lists?

③ Actions

The sketch shows a shopping application interface divided into several sections:

- WHAT TO DO:** Contains a speech bubble saying "Touch a different color or scan another item" and a small icon of a person.
- WHAT YOU SELECTED:** Displays a drawing of a stroller, the text "JPG STROLLER", and three color options: ☒ Green, ☐ Red, and ☐ Blue.
- Shopping List Table:**

ITEM	STYLE	COST
JPG STROLLER	GREEN	98.00
mm mm	mm mm	mm
mmmmmm mm	mm	mm
TAX :		10.00
TOTAL :		124.98
- Actions:** Includes buttons for "DELETE", "PRINT", and "DISCARD".
- Footer:** A section labeled "ALL DONE ?" with buttons for "ORDER", "PRINT", and "DISCARD".

Annotations include:

- Red arrows pointing from the "JPG STROLLER" text in the table to the "WHAT YOU SELECTED" section, labeled "click item to select" and "which updates this panel".
- Orange arrows pointing from the color options to the right, labeled "can change these options at any time".
- An orange arrow pointing from the "DELETE" button to the right, labeled "delete item".
- An orange arrow pointing from the "TOTAL" row to the right, labeled "Total cost".

④ Panel showing scanned or selected item

⑤ can change these options at any time

⑥ delete item

⑦ Total cost