CS 179
& Useful!
Design of Usable Interactive Systems
Krzysztof Gajos
What you will learn in CS 179

- **Discover** and understand people’s latent needs
- **Invent** and construct prototypes
- **Design** for people different than yourself
- **Evaluate** and refine your solutions
- **Build** mobile web applications
- **Teamwork**
What Will You Do?
Observe
Fail Fast to Succeed Sooner
Amal's guide to Storyboarding!

The main point of storyboarding is to understand how your product fits in the world. You want to illustrate a scenario.

**THE GIST**

Let's check out places in SF...

& Show Interactions

& Show Satisfactions

Red & Sean were bored after going to the Bluegrass Festival. They decided to find out what else they could do...

Do we do MUSEUMS? Let me use TIBERIAS on my iPhone! Insted, show why & when features would be used.

Don't use this to illustrate all the UI features & components. *This is what paper prototyping is for!*

& Finally, be creative! You don't need to be an artist to get a point across.
CS.179. Video Prototyping.
One Accurate Measurement Is Worth a Thousand Expert Opinions

Adm Grace Murray Hopper
Mysteries Revealed in CS 179
TRY OUR FAMOUS LOBSTER STRUDEL
Color

- friendly and professional
- serious and professional
- exciting and dynamic
Microsoft Word
C# and Visual Studio Tools for Office

Soylent is a prototype crowdsourced word processing interface. It focuses on three main tasks: shortening the user’s writing, proofreading [...] 

User selects text

Displayed to the user

Soylent is a prototype crowdsourced word processing interface, focuses on three tasks: shortening the user’s writing, proofreading [...] 

shorten(text)

Return (patches)

Mechanical Turk
Javascript, Java and TurKit

Find
"Identify at least one area that can be shortened without changing the meaning of the paragraph."

Find overlapping areas (patches)

Fix
"Edit the highlighted section to shorten its length without changing the meaning of the paragraph."

Soylent, a prototype...

Randomize order of suggestions

Verify
"Choose at least one rewrite that has significant style errors in it. Choose at least one rewrite that significantly changes the meaning of the sentence."

- Soylent is a prototype...
- Soylent is a prototypes...
- Soylent is a prototype test...
[HiPPO: Highest Paid Person’s Opinion]
Practicalities

- **Prerequisites**: CS 50
- **Lectures** T, Th 10-11:30 am
- **Studios** on Fridays
- **Weekly assignments** (mostly in teams)
What is Computer Science?
What is Computer Science?
PlateMate
(by Jon Noronha ’11 & Eric Hysen ’11)

<table>
<thead>
<tr>
<th>Food Description</th>
<th>kcal</th>
<th>fat (g)</th>
<th>carbs (g)</th>
<th>protein (g)</th>
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<tbody>
<tr>
<td>Dinner</td>
<td>1573.2</td>
<td>72.9</td>
<td>84</td>
<td>138.9</td>
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<tr>
<td>Yellow Corn (0.50 cup)</td>
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<tr>
<td>Barbeque Chicken Breast</td>
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<tr>
<td>Chicken Breast Meat and Skin (Broilers or</td>
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<tr>
<td>Fryers) (1.00 breast, bone removed)</td>
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<tr>
<td>Barbeque Sauce (Low Sodium, Canned) (0.14</td>
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<tr>
<td>cup)</td>
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<tr>
<td>Beef Steak (0.92 medium steak (yield</td>
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<tr>
<td>after cooking, bone removed)</td>
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<tr>
<td>Hominy (White, Canned) (0.44 cup)</td>
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<tr>
<td>Ketchup (2.00 tbsp)</td>
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<tr>
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<td>after cooking, bone removed)</td>
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</tbody>
</table>

Add Food
Delete this photo
PETALS
by Lahiru Jayatilaka ’10