

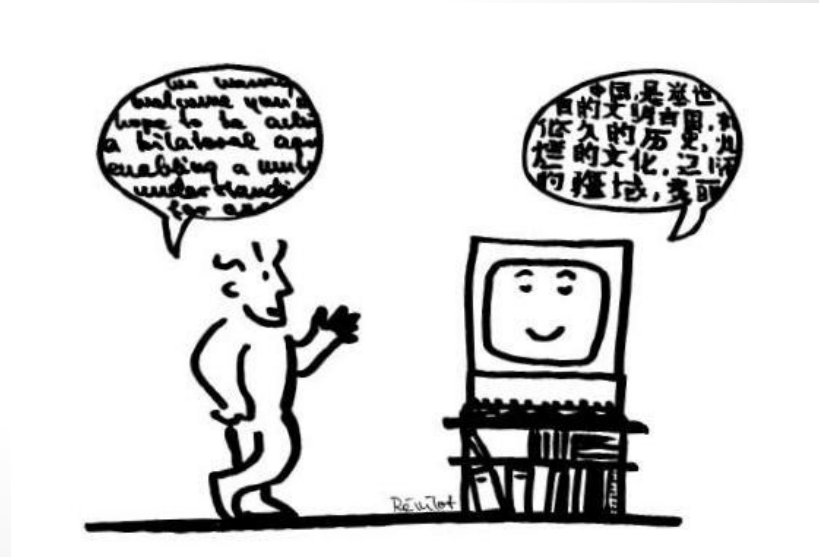
Designing Interfaces

CS286 Visual Programming
Spring 2015
Introduction



HCI

Human Computer Interaction



How has the world changed ...

- Text to Graphical Interfaces
- Display Technology
- Touch Screens
- Web - everything is connected
- Social Media
- Mobile

"But we are hackers and
hackers have black
terminals with green
font colors!"

- John Nunemaker

Applications Today

- Mobile
- Web
- Desktop
- Chromebook
- TV, Kindle/Nook, Game Systems, etc...
- Other?

Interface idioms

Recognizable styles/types of interfaces

If parts recognizable, users can apply previous knowledge to new interfaces

- Forms,
- Text Editors
- Graphics Editors
- Spreadsheets
- Browsers
- Calendars
- Media Players
- Information Graphics
- Immersive Games
- Web pages
- Social Spaces
- E-Commerce

By Intuitive Interfaces we mean “**familiar**” -
Jef Raskin (Apple)

User should not need instructions for how to
use a new interface

Dan Russel (Google Search Researcher)

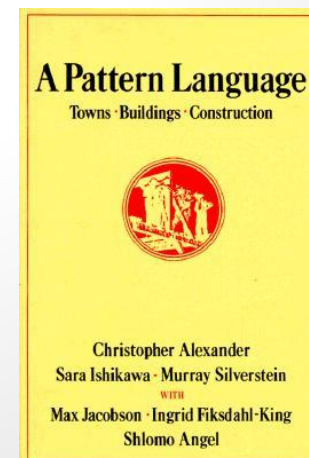
<https://sites.google.com/site/dmrussell/>

Patterns

Patterns are **Design Solutions**

“The elements of this language are entities called patterns. Each pattern describes a problem that occurs over and over again in our environment, and then describes the core of the solution to that problem, in such a way that you can use this solution a million times over, without ever doing it the same way twice.”

Concept has origins from
Christopher Alexander's
“**A Pattern Language**” 1977 book
related to architecture.



Patterns

Learning Design
(ideas, terminology, examples,
inspiration, comparing approaches)



Name, Problem, Solution, Consequences

Name, What, Use When, Why, How, Examples

Chapter 1 - What Users Do

1. Read Tidwell Chapter 1
2. Identify an application and capture a screenshot for each of the seven user goals identified on page 2 ie. “finding some fact or object, learning something, etc..
3. Upload a document with each of your seven screenshots clearly labeled.
4. Begin looking for “Bad” User Interface Examples (submit. to Dr. Lehman)

Bad User Interface Examples

