



# Fluency

*Fluency has been a huge amount  
of work ... have you learned  
anything???*



# Goals of FIT100

FIT100 is designed to ...

- \* Make you better users today
- \* Prepare you to learn more IT as you need it throughout your life
- \* Upgrade your thinking, making you a better reasoner, problem solver, trouble-shooter, etc.

**How have we done?**



## The Topic List ...

### We covered the following topics

- \* Importance of vocabulary: abstraction
- \* Learning an app on your own: click/blaze
- \* Basics of the Internet, domains, TCP/IP, ...
- \* HTML programming: tags, tags, tags
- \* Structuring information, queries, Google
- \* Truth or Fiction? **Misleading Web Page**
- \* Debugging guidelines ... how to do it



## The Topic List ...

- \* Digital representation -- using bits
- \* Computer basics and Si technology
- \* Algorithms -- sorting with pizza boxes
- \* Programming ideas *After Image*
- \* Building a GUI in HTML/JavaScript
- \* Functions -- biggest idea in software
- \* Iteration, looping over & over & over &
- \* Animation, making things happen



## The Topic List ...

- \* Digital Media, colorizing, binary, MP3,
- \* Database basics, operations on tables
- \* Logical Databases -- views and queries
- \* DB design chalk talk **CIA Data**
- \* Netiquette, viruses, worms, email
- \* Privacy -- opt-in/opt-out, you decide
- \* Security, hiding secrets w/encryption
- \* Do computers think? Turing tests
- \* ... and today the wrap-up



# Fluency Topics

Fluency topics can be classified as

- \* Skills
- \* Concepts
- \* Capabilities



## Skills

Skills are the ability to use computers today to solve your problems

- \* **You have learned new applications ... FTP, Photoshop, Access, ...**
- \* **Better yet, you've learned how to learn applications: "Click Around," "Blaze Away"**
- \* **You should be an aggressive, confident user**
- \* **Could you learn your next application on your own?**



# Concepts

Concepts are the foundation of future learning ... you should be ready

- You know how the Internet's TCP/IP works (postcards), how a computer works (F/E cycle), how JavaScript makes animations
- And privacy, netiquette, writing queries, ...
- We don't know what the next technology will be, but it will look familiar to you because you'll see ideas you know

**“Popularized” technology should be understandable**





# Capabilities

The most ambitious goal of this class is to expand your thinking

- Reasoning, debugging, finding information, designing pages or databases, problem solving, research, expecting unexpected,...
- It's not easy to learn these things ... was debugging ever fun???
- **All capabilities will be used beyond IT!**

By surviving FIT100, you've become a better student!



# Survey



## FIT Pioneers

Our experience in this class will make  
FIT100 better for **UW** students, and  
students across the world

**When you do something clever because of  
FIT100, tell me: [snyder@cs.washington.edu](mailto:snyder@cs.washington.edu)**