



## Test Your Tech

The dangers of phishing include

- A. Sharp hooks and nightcrawlers.
- B. Credit-card fraud at a look-alike Web site that mimics your bank.
- C. High mercury content in fish from polluted oceans.

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## Announcements

- No final next week
- Special lab on Tuesday afternoon from 2-5pm in MGH 430
  - Dave, Sam, and D.A. will be available
- Tuesday before 10pm:
  - Everything due (extra credit labs and papers, labs 14 and 15, and Project 3)



## Majors at UW

Where to go from here...

- Computer Science and Computer Engineering, CSE
- Informatics Program, Information School



## Project 3

- Query 10
  - \* List the sailors' names and the number of reservations made by each sailor but do not show the cases where only one reservation was made.




## Project 3 Part B

- Query 10
  - \* List the sailors' names and the number of reservations made by each sailor but do not show the cases where only one reservation was made.
  - \* What tables do we need?




## Project 3 Part C1

- Which attribute, or column, is not specified properly?
  1. Look closely at the results for Query 3. What looks wrong? (Hint: data type)
  2. Recall that databases never store anything that can be calculated.
  3. How would you change this column to keep it accurate, year after year after year—without annual, manual updates?




### Project 3 Part C2

- Extension to the database
  - \* You landed the contract to make changes in the database that will protect the BoatClub from future lawsuits
  - \* You need to make sure that only sailors with the proper ratings can rent particular models of boats




### Project 3 Part C2

- Extension to the database
  - \* What information do you need?
  - \* Reverse engineer the database:
    - Think about the query you will write
    - What columns will you need ?
      - Sailor rating
      - Model
      - Model Rating




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### Project 3 Part C2

- Extension to the database
  - \* Where do we add the missing column, model rating?
  - \* What table has information about models of boats?



## Project 3 Part C2

- Extension to the database
  - \* Where do we add the missing column, model rating?
  - \* What table has information about models of boats?
    - The Boat table
    - Add rating to each record in the Boat table



## Project 3 Part C2

- Extension to the database
  - \* Think about how to write the query
  - \* Think of a second question you could ask the database after you added the model and model ratings



## Fluency

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

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## Goals of FIT100

FIT100 is designed to ...

- \* Make you better users today
- \* Prepare you to learn more IT as you need it through out 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? Bogus Web Page
- \* Debugging guidelines ... how to do it



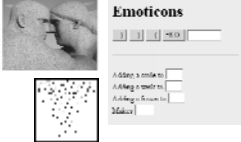


## The Topic List ...

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




## The Topic List ...

- \* Problem solving, PERT charts, examples
- \* JavaScript summary, and review
  - loops, prefetching, animation, mouseOver, functions, ...

## The Topic List ...


- \* Digital Media, colorizing, binary, MP3,
- \* Database basics, operations on tables
- \* Logical Databases -- views and queries
- \* DB design chalk talk SLAMA
- \* Netiquette, viruses, worms, email
- \* Privacy -- opt-in/opt-out, you decide
- \* Encryption, hiding secrets from every1
- \* 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!**



## 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 us:  
[daclem@u.washington.edu](mailto:daclem@u.washington.edu)  
[snyder@cs.washington.edu](mailto:snyder@cs.washington.edu)



## And now the evaluation

We'll do course evaluation ...

- \* It's voluntary, but I hope you do it
- \* Two forms, white and yellow
- \* Use #2 pencil to bubble in results
- \* I need a volunteer to collect evals

I will leave ...