Course Registration

- Cross-listed as CSE 100 and INFO 100
  - Does not matter which you registered for
- The course is full. I will overload the course later in the week based on lab room capacity and staff availability.
  - For now, check both CSE 100 and INFO 100 for openings.
- If you want to switch lab sections, do NOT drop the course and try to re-add it—someone might take your spot! Talk to me after class.
- Other registration questions?

Syllabus

- See web page: http://www.cs.washington.edu/100

On Textbooks…

- Fluency With Information Technology: Skills, Concepts, and Capabilities
  Lawrence Snyder
  Second Edition (or later)

Labs

- No lab today (1/5) or tomorrow (1/6)
  - Labs start on Wednesday (1/7)

Grading

- Labs: 30%
- Projects: 45%
- Final exam: 25%
- No curve: Your grade depends on you
- Not an "easy A"
- Ask lots of questions—seek help early!

Percent | Grade
---------|--------
98+      | 4.0    
96-97    | 3.9    
94-95    | 3.8    
92-93    | 3.7    
91       | 3.6    
90       | 3.5    
89       | 3.4    
88       | 3.3    
87       | 3.2    
86       | 3.1    
85       | 3.0    
...      | ...    
64       | 0.9    
63       | 0.8    
62       | 0.7    
< 62     | 0.0    

Course Overview

- The course title is "Fluency in Information Technology"
  - What is "information technology"?
  - What does it mean to be "fluent"?

Some Of The "Basics"

Nothing, but nothing, is going to give you half of $80 million to help them liberate the funds of a deceased millionaire…from Nigeria or anywhere else.

David Pogue, "Tech Tips for the Basic Computer User", 10/2/2008

http://pogue.blogs.nytimes.com/2008/10/02/tech-tips-for-the-basic-computer-user/

- Tip #1: If it's too good to be true…

General Topics

- Terminology
- Design
- Networks
- File structure
- HTML / CSS
- Search
- Digital representation
- Algorithmic thinking
- JavaScript (4 weeks)
- Security
- Privacy
- Spreadsheets
- Databases

Questions

- Where is the computer?
- What makes software easy to use?
- How does the Internet work?
- How do you search for information effectively?
- How does a computer store information?
- Where does one go "phishing"?

- What do you want to learn?
  - Send me an e-mail or an anonymous message at:
    https://catalysttools.washington.edu/umail/form/bensonl/2321

Moore's Law

- Gordon Moore, co-founder of Intel, made the following observation in 1965: The number of transistors that can be placed inexpensively on an integrated circuit doubles approximately every two years.

- Exactly how fast is a doubling every two years?
  - Suppose only one transistor could be placed on a circuit in 1965, how many transistors could be placed today?
    \[ 4,194,304 \]

Source: http://en.wikipedia.org/wiki/Moore%27s_law

Moore's Law

- Now applies to almost every measure of capabilities of digital electronic devices:
  - Processing speed
  - Memory capacity
  - Number and size of pixels in digital cameras:

Source: http://en.wikipedia.org/wiki/Moore%27s_law
What Does This All Mean?

*We are currently preparing students for jobs that don't yet exist... using technologies that haven't been invented... in order to solve problems we don't even know are problems yet.*

- The world, particularly technology, changes at a rapid pace
- No set of topics is "everything" you need to know
- Prepare for a lifetime of learning