

# CMPUT 410: Web Based Information Systems

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# CMPUT 410: Web Based Information Systems

What is  
“Information  
Systems”?

# Information Systems

- information system - any combination of information technology and people's activities using that technology to support operations, management, and decision-making

– 2007 Moore and Ellis, “Trustworthy Refinement Through Intrusion-Aware Design”, Software Engineering Institute, Carnegie Mellon University <http://ur1.ca/gchaq>

# CMPUT 410: Web Based Information Systems

## What is Web-Based?

# CMPUT 410: Web Based Information Systems

What is Web-Based?  
What is the web?

# Topics Touched on In This Course

- HTTP
- Web Servers
- Web Browsers
- Web Services
- Dynamic Webpages
- Web Applications
- Frameworks
- TCP/IP
- DNS

- HTML
- XHTML
- CSS
- Javascript
- AJAX
- XML
- JSON
- Websockets
- Git/Github
- Video
- Audio
- SVG

- REST
- SOAP
- WSDL
- XML-RPC
- CGI
- Django
- Flask
- Application Web Servers
- Security
- Performance
- Web Mining

# CMPUT410 Goals

- Learn about the web from a software developer's viewpoint
- Apply some of what you learned in:
  - 5 Assignments
  - Labs
  - 1 Project

# CMPUT 410 Materials

- Eclass/Moodle
- Github
- Python
- Virtualenv
- I recommend:
  - Virtualbox
  - Ubuntu in Virtualbox
  - Wireshark
  - Emacs/gvim/gedit



# CMPUT 410 Professionalism

- I consider this a software engineering class.
- Thus we are beholden to the ethics of engineering practice.
- Be civil and be professional.
  - Everyone has different experiences
  - Be courteous
  - And help people out.
    - Teachers tend to learn more than students :-)

# CMPUT 410

## Participation

- I expect you attend most classes.
- I expect you ask questions in class.
- I expect you answer questions in class.
- There is a participation mark.
- Participation in class improves your participation mark.
- So does attendance (writing quizzes)

# Quizzes

- I like to give out “quizzes”
- They are exercises
- They are unannounced
- I use them for participation marks
- And for understanding what you understand
- They occur at the start of class
- I give at most 5 minutes in class to write them
- I usually show up 5 minutes early to hand them out.
- Returning a blank quizzes does not count
- I reserve the right to sample quizzes when marking

# CMPUT 410 Communications

- Private
  - Email: Dr. Hindle & the Teaching Assistants
- Public
  - Eclass Discussion Forum
  - Ask assignment questions in the public forum so everyone may benefit

# Communication

- See the eclass page
- <https://eclass.srv.ualberta.ca/course/view.php?id=15777>

# Abram...

- Did you give them the quiz?
- Did you discuss the web in class?
- Did you go over the policies?
- Did you go to the eclass?
- Did you get the quizzes back?
- Did you realize this is public and up on the projector?