



# Welcome!

## Internet Application Development

*CIS 2336*

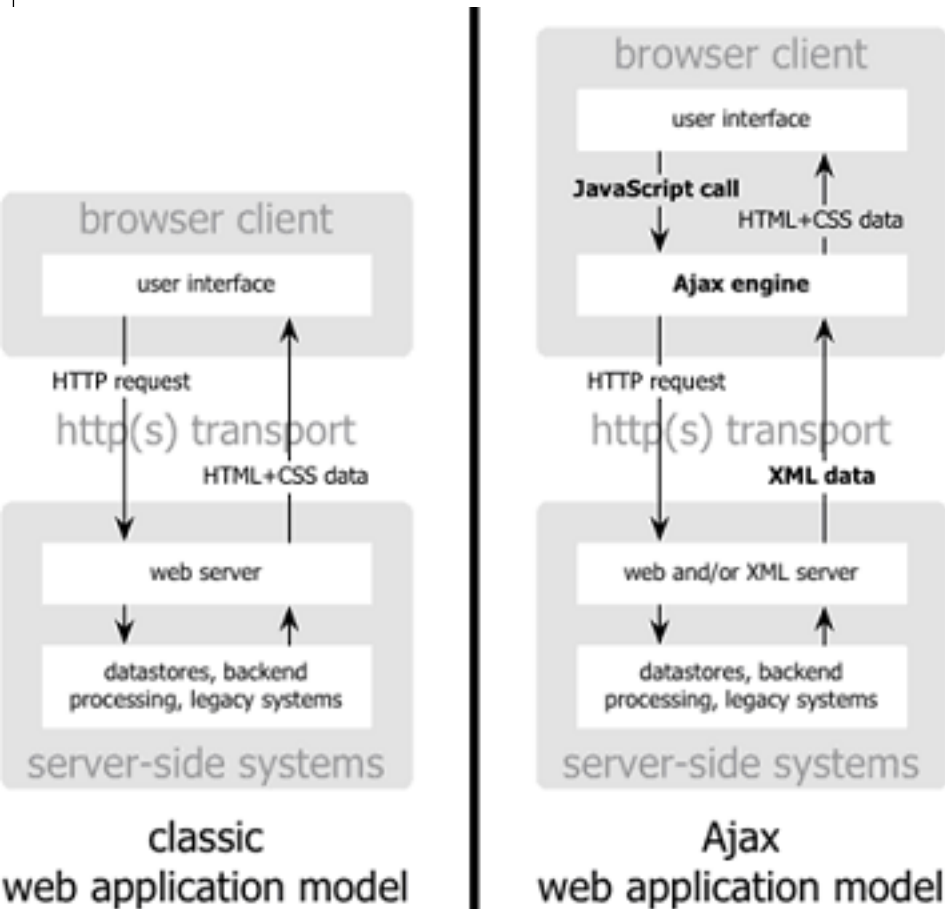
Ed Crowley



## Topics

- Why Internet Application Development?
  - Why now?
- How did we get here?
  - Where are we going?
- What are we going to do?
  - Four Modules
  - Assignments
  - Portfolio
- Appropriate class expectations?

# Internet Application Development



- Internet, and Internet applications, evolving...
- Initially, Internet applications had a static, thin client architecture.
- Now, with Ajax Internet Applications can resemble desktop apps...
- Evolution of HTML 5 and CSS3 allow web pages to resemble traditional apps...
- Necessary component of the Internet of Everything!

*Trends*

*Intelligence moving to edge...*

*Processing becoming more distributed...*



# Three Waves

First wave (60s and 70s)

- IT-enabled process automation, computer-aided design and manufacturing resource planning.

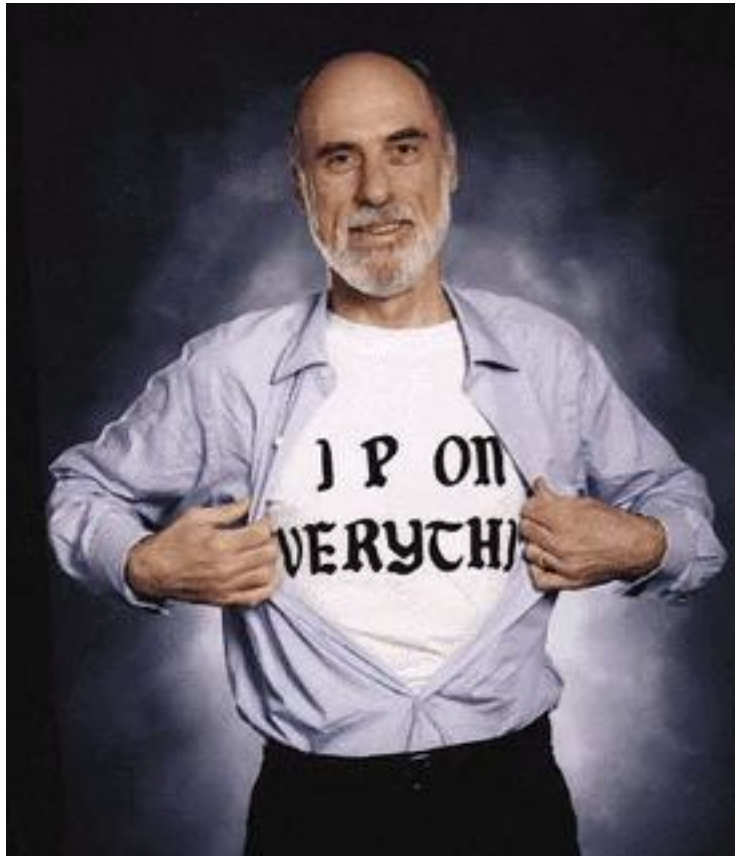
Second Wave

- Internet: a homogenous network of heterogonous computers.

Third Wave: Internet of Everything.

- IT becomes integral part of product.
  - Every product will contain sensors, processors and software.
  - Sensors coupled with analytics makes 'big data'.
- Third wave will change:
  1. How businesses operate.
  2. How they deliver their products.
  3. How interact with customers.

# How Did the Internet Get Here?



- Vint Cerf aka Father of the Internet
- Wrote TCP/IP while a grad student
- Helped demonstrate that packet oriented communications could work.
- '69—'90 called ARPANet in the beginning...

*TCP/IP foundation of the Internet.*

# How Did the World Wide Web Get Here?



- While working as a junior researcher at CERN, Tim Berners-Lee wrote HTTP. (1989)
- Made it open source
- Currently, W3C director...

*HTTP foundation of the World Wide Web.*

# Internet Success Attributes

A unique model:

- Shared Global Ownership
- Development Based On Open Standards,
- Freely accessible processes for technology and policy development.

Internet continues to thrive because the Internet model is:

- Open
- Transparent
- Collaborative.
- Relies on processes and products that are local, bottom-up, and accessible to users around the world.

# Open Models



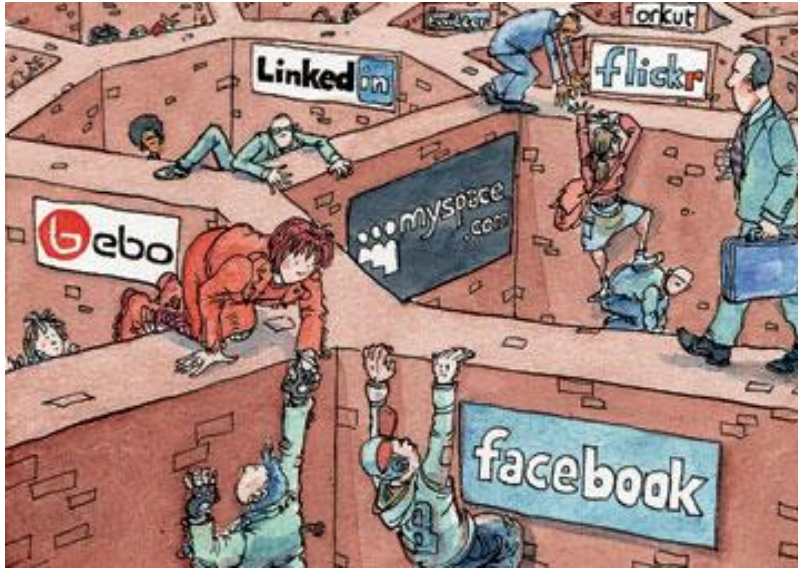
What the Tech Industry Has Learned from Linus Torvalds: Jim Zemlin at TEDxConcordiaUPortland

<https://www.youtube.com/watch?v=7XTHdcmjenI>

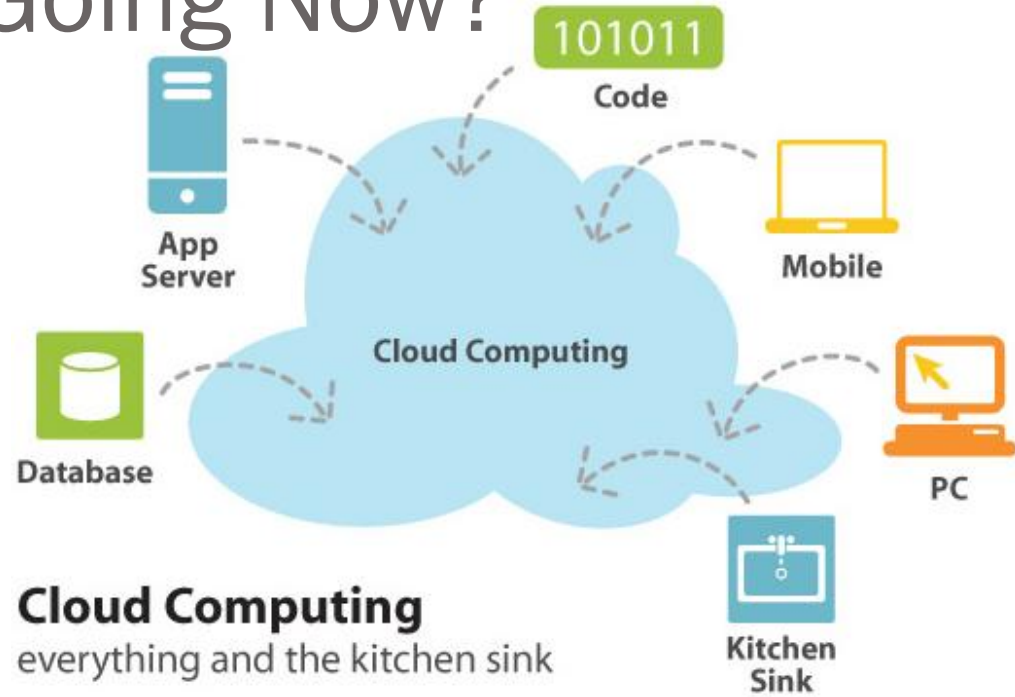


Now that we have turned hardware into software and eliminated the concept of space:

# Where are We Going Now?



*Walled Gardens*



**Cloud Computing**  
everything and the kitchen sink



*Mobile Devices*

- Virtualization
- Wireless
- Data Centers
- Mobile

# What are We Going to Do In Class?

- Modular approach with weekly assignments.
- Four modules:
  1. HTML and CSS Intro
  2. PHP
  3. MySQL
  4. JavaScript and jQuery
- Projects
  - Portfolio
  - Online Assignments
- Four Exams, possible final

*Note: Class is dynamic and may change with time...*

# Appropriate Expectations?

- Hybrid— attendance more important than conventional class
- Ability to self pace and work independently more important than regular class...
- Four exams with a possible final...

You are your own webmaster. You are responsible for your:

- Online portfolio
- Online Assignments
- Ability to learn new technologies, often times out of class, more important than in regular class...

# Syllabus Review

- Goals
- Textbook – required modules 2,3, &4
- Projects
  - Online Portfolio
  - Online Assignments
- Exams – 4
- Grading – 6 parts, 4 parts exam, 1 part portfolio, 1 part assignments

# Hands On

- Go to our support site:

<http://cis2336.chibana500.com/>

- Then, go to

<http://cis2336.chibana500.com/mod1/mod1.html>

- Download 'Online Account' in pdf format....

Contains instructions on how to log onto your HostGator Accounts...

Create a home page.

*If you don't know how to do that, you can review the tutorials at W3Schools or Codecademy....*

# Questions?

- Next week

*We will explore our Hostgator accounts more. In specific, we will create a directory for each module. In each directory, we will create a 'home' page for that module. We will link a common style sheet to each of the four module's home pages.*

*Please work through the Module One Codecademy HTML/CSS tutorial assignment.*