6.009: Fundamentals of Programming

Week 5 Lecture:

Interlude: Python Web Programming (kind of)

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6.009: Quiz Logistics

Quiz 1 is this Wednesday.

Rooms:

- Last (Family) Name starts with A-D: 10-250
- Last (Family) Name starts with E-P: 50-340
- Last (Family) Name starts with Q-S: 34-501
- Last (Family) Name starts with T-Z: 34-101

No office hours Wednesday night (9 March)

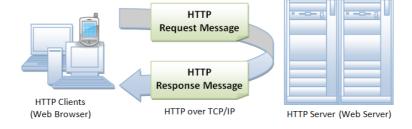
No office hours Thursday morning (10 March)

What Is a Web Application?

What does a web application do?

- Receive request from user
 (show me a page, submit this answer, etc)
- Find relevant information
 (page content, user info, history of submissions, etc)
- Log new information if necessary, and
- Send response
 (typically, HTML to be displayed in the browser)

The World Wide Web



Sockets

Sockets allow communication across processes (on the same machine or different machines).

Typically, a *server* will wait for a *client* to make a connection on a designated *port* (a virtual endpoint for a connection).

Once the client connects, the socket allows for communication between the server and the client.

Client and server can each send/receive data via the socket.

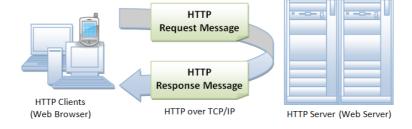
Example: yelling echo server.

The Rest of Today

Designing a:

- Web Server
- Web Application Framework
- Web Application

The World Wide Web



HTTP Request and Response

