Browsing the Web

URL

http://cs.calstatela.edu:8080/cs320stu31/index.html

How the Web Works

HTML

```html
<html>
  <head><title>CS320 Hello</title></head>
  <body>
    Welcome to <b>CS320</b>!
  </body>
</html>
```

Dynamic Content

- Web search results
- Shopping cart
- ...
- Anything that need to be generated on the fly based on user request
Deliver Dynamic Content

![Diagram showing data flow between application server and browser]

Terminology

- Application server
- Servlet container
- Server-side programming vs. Client-side programming

Server-side Technologies

- CGI
  - C, Perl
- Java
  - Servlet/JSP
- ASP.NET
  - VB, C#
- PHP
- Ruby
- Python

Client-side Technologies

- HTML, CSS
- JavaScript
- Java Applet
- Rich Internet Application (RIA) technologies
  - Adobe Flex and Flash
  - Microsoft Silverlight
  - Sun/Oracle JavaFX

Why Web Applications?

- Take traditional businesses to larger audience
  - Amazon, Netflix
- Replace desktop applications
  - Google Docs
- Open up new opportunities
  - Facebook, Twitter, Youtube

Advantages of Web Applications

- Low publishing and distribution cost
- Potentially large user base
- Centralized administration
  - No client side installation
  - Professional maintenance
  - Easy data backup
  - Easy upgrade
- Available anywhere, anytime
- Piracy proof