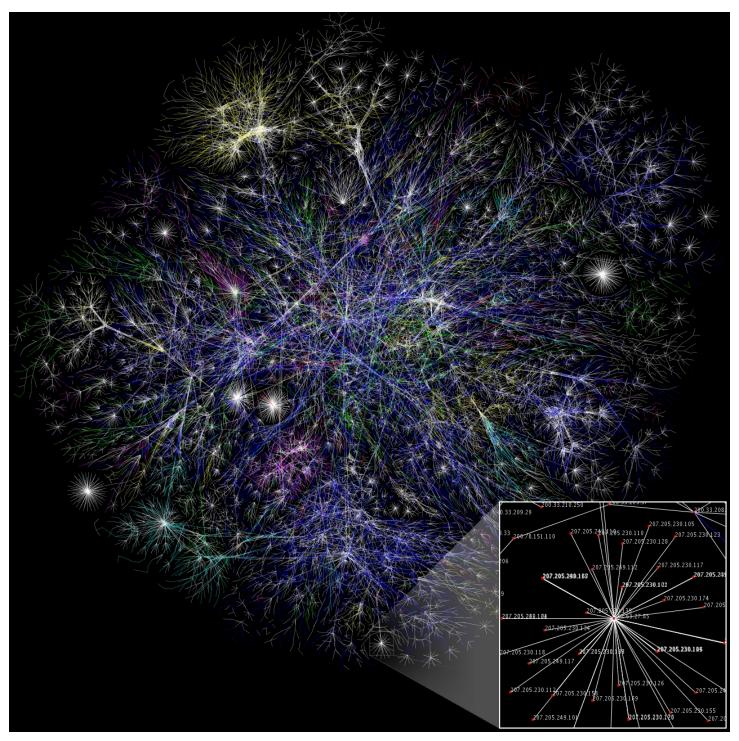
What is the Internet?

CVJ 341: Introduction to Web Design

Lien Tran

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http://en.wikipedia.org/wiki/Internet

The technical

The internet is an information protocol which passes data back and forth between **computers** and **servers**.

This protocol is called **TCP/IP**, which stands for Transmission Control Protocol/Internet Protocol.

It is how the web serves you hypertext documents, email, and everything else you see "online."

Internet vs. the Web

The Internet is a worldwide network of computers and systems cooperating with each other to exchange data using a common set of networking and software protocols.

The Web is a collection of documents whose content are structured with hypertext.

Client-Server Model

CLIENT

any device used to access information on the internet request via URL

data at URL returned

SERVER

hosts files and serves data to clients as it is requested

Servers and files

Servers and computers have IP addresses. These represent locations on the web. These look like: 184.152.46.88.

URLs point people to server IPs in order to download information they are looking for.

URLs not only make IP addresses easier for humans to remember, but they also allow multiple paths to point to the same IP address.

Web clients

Web clients or browsers show us the content at a particular IP.

These clients interpret hypertext documents into visual elements.

As this interpretation is done at the browser level, it is important to test your HTML in as many browsers as possible.

HTML

Hypertext Markup Language (HTML)

HTML is a language for describing webpages

HTML is not a coding language, it is a markup language

HTML History

Created in 1991 by Sir Tim Berners-Lee.

Based off of SGML (Standard Generalized Markup Language)

HTML DOCUMENTS











VISUAL WEB PAGES

dealbook.nytimes.com/2013/08/25/keeping-wall-st-in-the-black-or-maybe-brown/?hp& r=0





INVESTMENT BANKING | AUGUST 25, 2013, 9:26 PM | 9 39 Comments

Shoeshines Keep Wall Street in the Black (or Maybe Brown)

BY WILLIAM ALDEN



Ozier Muhammad/The New York Times

A morning rush at Eddie's Shoe Repair in Rockefeller Center.

Mauricio Dias was being courted by Wall Street.

After losing his job at the investment bank Donaldson, Lufkin & Jenrette when it was sold to Credit Suisse, he received a phone call from the office of Hamilton E. James, the executive who had orchestrated the sale, Mr. Dias said. Mr. James was starting a new role as the No. 2 at the Blackstone Group, a big investment firm, and wanted Mr. Dias to join him.

Article Tools



FACEBOOK



Mr. Dias, now a 10-year stalwart at Blackstone, is no banker with a briefcase, however. He carries a shoeshine box.

PREVIOUS ARTICLE

 Amgen to Buy Onyx for \$10.4 Billion

NEXT ARTICLE An Appreciation of Leather and Polish Shoeshines

More New York Times News by Sector

ENERGY MEDIA

HEALTH CARE

DealBook: Indian Firm to Pay \$2.6 Billion to Build Its Stake in African Gas Project

ONGC Videsh, a unit of the India's state-run Oil and Natural Gas Corporation, says it will acquire a 10 percent stake in a natural gas project in Mozambique from Anadarko Petroleum in an allcash deal.

Under Obama, Little Progress on High-Level Jobs for Women The president, who is considering candidates for a new Federal Reserve leader, has named no more women to major posts than Bill Clinton did. Janet L. Yellen, the Federal Reserve's vice chairwoman, is a finalist for the position.

DealBook: U.S. Short-Seller Takes Aim at Chinese Vegetable

The Glaucus Research Group has accused the China Minzhong Food Corporation of fabricating sales and doctoring financial statements, leading to a 48 percent fall in Minzhong's stock before trading was suspended on Monday.

News by Sector

Energy Industrials Cyclical Goods & Services Autos Non-Cycl. Goods & Services

Food & Beverage

Technology Financials Real Estate Basic Materials Health Care Telecom Utilities

Morning Agenda With William Alden

A Blockbuster Biotech Deal

Amgen agrees to buy Onyx Pharmaceuticals for about \$10.4 billion. | Muriel Siebert, the first woman to buy a seat on the New York Stock Exchange, has died at 80. | Inside New York's investment houses,

HTML Tags

<html> </html>

- Keywords are surrounded by brackets
- Tags come in pairs with an opening and closing tag
- Tags describe page content

HTML ELEMENTS

This whole line is an HTML element.

Everything between the start and end tags, including the tags

BASIC STRUCTURE

```
<!DOCTYPE html>
<html>
     <head>
          <meta charset = "utf-8">
          <title>Page Name</title>
     </head>
     <body>
          My first paragraph.
     </body>
</html>
```

WHY DO WE NEED STRUCTURE?

Correctly written HTML and CSS improves findability and SEO (Search Engine Optimization)

HTML Elements

Hello world.

Opening tag
Closing tag
lowercase

Empty Elements

Empty elements have no content.

HTML Headings

```
<h1>This is the main heading.</h1><h2>This is the next heading.</h2><h3>And the next....</h3><h4> ... </h4><h5> ... </h5><h6> ... </h6>
```

HTML Headings

```
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```

HTML Paragraphs

This is a paragraph.

This is a paragraph
break.

HTML Comments

<!-- This is a comment. It does not show up on the browser. -->

Use comments to help you identify the purpose of segments in your code.

HTML Links

Provide additional information about an element specified in the opening tag

Attributes come in name/value pairs. A value is enclosed in quotes.

Format: name="value"

HTML Links

Click here

Example of an EXTERNAL link:

University of Miami

HTML Links

Click me

Example of an INTERNAL link:

About Me

FAQs

HTML Images

Example of an IMAGE tag:

<img src="sebastian.png" alt="Sebastian UM's
mascot" />

Review

```
<!DOCTYPE html>
<html>
<head> .....</head>
<body>
    <h1> through <h6>
    <br />
    <a> .... </a>
<img .... />
</body>
</html>
```

Web Resources

W3C: World Wide Web Consortium

Validate & Debug: http://validator.w3.org

Web Development Resource: http://w3schools.com

Head Element

Includes scripts and stylesheets (css)

Example:

Useful Tips

Write clean HTML with proper indentation.

Use comments to annotate and organize your code (and to test different code before deleting it)

Validate your pages at http://validator.w3.org.

Test your website in multiple browsers (cross-browser compatibility)

Use "Inspect Element" and other developer tools to debug and test code

What is Image Compression?

The reduction of the file size of images, which also reduces the quality of the image.

Why Image Compression?

Create faster loading web pages because there are less bytes to download (better user experience)

Reduce the burden on your user's browser (uses less bandwidth / less of your data plan)

Protecting your images from being misused (putting up lower quality image reduces chances someone will use your image without your permission)

Free up space on your server

Increase your search engine optimization (SEO)

Image Resolutions

Print - 300 dpi

Web - 72 dpi

Images for Retina Displays

Double the size of all your images.

Instead of uploading a 300 x 409 pixel image to your site, upload a 600 x 817 pixel image instead.

Keep in mind that you are more than doubling the file size of the image when you double the dimensions.

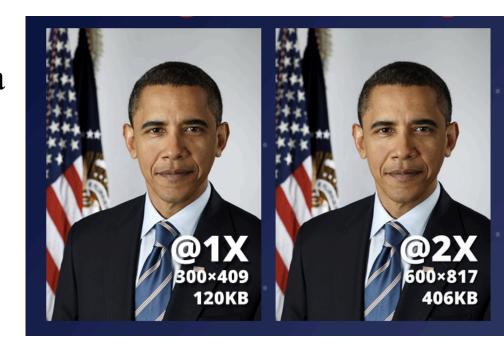


Image Compression Tools

ImageOptim – http://imageoptim.com/

Tiny PNG – http://tinypng.org/

Apple Preview > Tools > Adjust Size

Photoshop > File > Save for Web