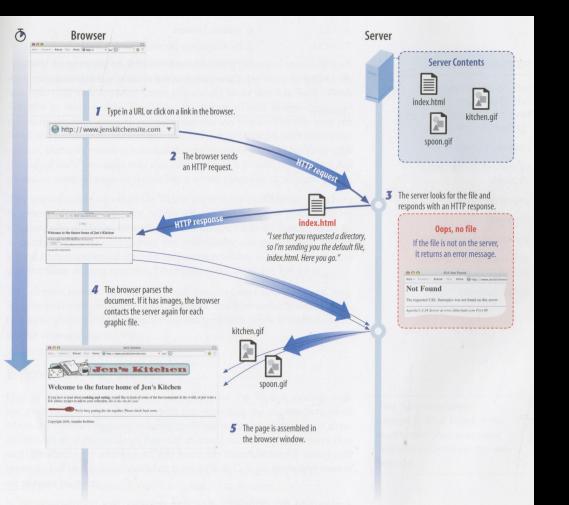
# How the Internet Works



# Internet

Is a network of connected computers which primary purpose is to share information.

## **Protocols**

Are ways in which information can be passed from one computer to another. Examples include:

**Email** 

FTP (File Transfer Protocol)

HTTP (HyperText Transfer Protocol)

IP (Internet Protocol)

## World Wide Web

Is one way information can be shared over the Internet. It connects documents together through the use of hypertext links. The Web uses a protocol called HTTP.

# http://

HTTP determines how information (text, images, audio files, movies, etc.) are arranged and transmitted on the Web. The HTTP Servers or Web server browsers, in turn demonstrate how that information should act or behave in response to various commands.

# Web Browsers Today



Rendering Engine a software component that takes marked up content (such as HTML, XML, image files, etc.) and formatting information (such as CSS, XSL, etc.) and displays the formatted content on the screen. For this class Google Chrome will be the functionality of your websites will be evaluated in Google Chrome.

## **IP Address**

Is a specific identification number assigned to a device (computer, printer, etc) that is within a particular computer network and is using the Internet Protocol.

example:

64.233.160.0

# Domain Name System (DNS)

Is the most common "human" way to refer to a server without using an IP address.

example:

google.com

## **URL (Uniform Resource Locator)**

A URL is made up of three main elements:

the protocol

the site name

the absolute path

example:

http://www.webopedia.com/term/u/url.html

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**Absolute Path** 

Protocol

**Host Name** 

**Domain Name** 

n, Doth

Directory Path

: .mont

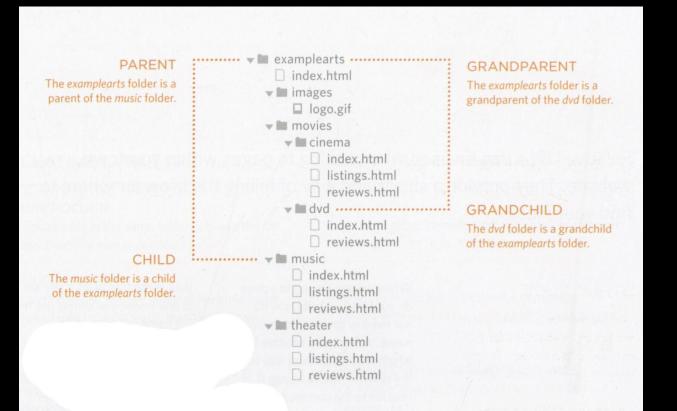
Document

# **Directory Path**

File organization is the key to a successful website. Its best practice to organize your code according to a folder structure hierarchy. Folders are also called directories.

**Root Folder** - Is the top level folder **index.html** - Is the main homepage of a site written in HTML

#### Sample Directory Structure



## Relative URLS

Can be used to link pages within your own website. They exist a shortened version of the path to a specific directory.

examples:

history.html info/data.html ../img/image.png

#### Relative Link Examples

#### RELATIVE LINK TYPE

SAME FOLDER To link to a file in the same folder, just use the file name. (Nothing else is needed.)

#### CHILD FOLDER

For a child folder, use the name of the child folder,

#### followed by a forward slash, then the file name.

file name.

file name.

#### GRANDCHILD FOLDER

Use the name of the child folder, followed by a forward slash, then the name of the grandchild folder, followed by another forward slash, then the

two folders (rather than one), then follow it with the

PARENT FOLDER Use ... / to indicate the folder above the current one. then follow it with the file name.

Repeat the ../ to indicate that you want to go up

GRANDPARENT FOLDER

To link to music reviews from the music homepage: <a href="reviews.html">Reviews</a>

EXAMPLE (from diagram on previous page)

To link to music listings from the homepage:

To link to the homepage from the music reviews:

<a href="../index.html">Home</a>

<a href="music/listings.html">Listings</a>

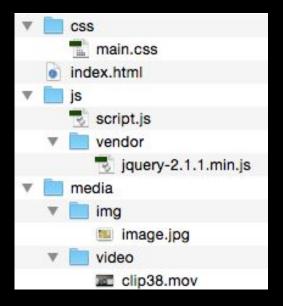
To link to DVD reviews from the homepage: <a href="movies/dvd/reviews.html">

Reviews</a>

To link to the homepage from the DVD reviews:

# Typical Website Organization

Best practices for file names: lowercase, numbers, hyphens ( - ), underscores ( \_ )



Exercise #1:

# File Organization & Path Navigation