

Web Development

Produced
by

Eamonn de Leastar (edeleastar@wit.ie)

Department of Computing, Maths & Physics
Waterford Institute of Technology

<http://www.wit.ie>

<http://elearning.wit.ie>



Waterford Institute of Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE



Agenda

- The Module
- The Internet
- The Web
- The Labs

Agenda

- The Module

- The Internet

- The Web

- The Labs

Web Development

- Tuition Team:

- Eamonn de Leastar (edelestar@tssg.org)
- Dr. Brenda Mullally (bmullally@wit.ie)
- Siobhan Drohan (sdrohan@wit.ie)
- Mairead Meagher (mmeagher@wit.ie)

- 12 Week Module

- 2 Lectures per week
- +1 x 3 hours of supervised labs
- 100% Continuous assessment
- 2 Assignments during term.

Useful Text

- Freeman, Elisabeth and Eric Freeman. 2005. [Head First HTML with CSS & XHTML](#). O'Reilly & Associates. 658 p. ISBN 0-596-10197-X





Head First Programming

By David Griffiths, Paul Barry

November 2009

Print: \$49.99

Ebook: \$39.99

Bundle: \$54.99

If you have little or no programming experience started with the core concepts of writing computer programs -- functions, and objects --... [Read more.](#)



Head First 2D Geometry

By Lindsey Fallow, Dawn Griffiths

November 2009

Print: \$19.99

Ebook: \$15.99

Bundle: \$21.99

Having trouble with geometry? Do Pi, the Pythagoras calculations just make your head spin? Relax. With Head First 2D everything from triangles, quads, and... [Read more.](#)



Head First iPhone Development

By Dan Pilone, Tracey Pilone

October 2009

Print: \$44.99

Ebook: \$35.99

Bundle: \$49.49

Let's say you have an idea for a killer iPhone app. Head First iPhone Development will help you get your first application... [Read more.](#)



Head First PMP, Second Edition

By Jennifer Greene, Andrew Stellman

July 2009

Print: \$69.99

Ebook: \$55.99

Bundle: \$76.99

Learn the latest principles and certification objectives. Fourth Edition, in a unique and inspiring way with Head First PMP book helps... [Read more.](#)



Head First Data Analysis

By Michael Milton

July 2009

Print: \$49.99

Ebook: \$39.99

Bundle: \$54.99

How can you learn to manage and analyze all kinds of data? Head First Data Analysis, where you'll learn how to collect and organize data... [Read more.](#)



Head First Networking

By Al Anderson, Ryan Benedetti

May 2009

Print: \$54.99

Ebook: \$43.99

Bundle: \$60.49

Frustrated with networking books so chock full of acronyms that your brain goes into sleep mode? Head First Networking's unique, visually rich format provides a task-based approach to computer networking... [Read more.](#)

Head First Labs from O'Reilly

http://www.headfirstlabs.com/index.php

O'REILLY

Brain-Friendly Guides from O'Reilly Media, Inc.



Head First Labs



Home

Books

Forums

Blog

About

write for us



New Year, Lots of New Books (and an iPhone app)!

Are you sitting down? Hopefully you are, because we've got a lot to discuss here. Since the last time we posted, we've released four more new books, and an iPhone app to boot. Speaking of iPhone apps, let's start with one of the more recent books we just published...

Head First iPhone Development

In true Head First fashion, you'll be building an app right out of the gate in the first chapter of [Head First iPhone Development](#). Obviously, if you want to build iPhone apps, you want to sell them in the app store, so the book is geared towards getting you creating apps quickly, and also focuses on designing top-notch apps and how to navigate the app submission process. Back in November, co-author Dan Pilone taught a great workshop, [Build, Compile, and Run Your iPhone App in 2 days](#), which covered a lot of the material in the book, namely, getting a developer who knows how to code in an Object Oriented environment coding on a Mac in Objective-C. And Tracey Pilone (co-pilot of the most prolific Head First writing couple since Kathy and Bert!) also recently posted over on the O'Reilly Community blog about [her experience as a Head First author](#), which is a great read for any aspiring Head First authors. (You can follow them both on Twitter as @danpilone and @traceypilone.)


Head First Programming

Completely new to programming? Based on experience with Head First's successful books on programming languages, design patterns, and technologies, learners have long been clamoring for a general Head First introduction to programming for the absolute beginner. In November, Paul Barry and Head First veteran David Griffiths teamed up to finally fill that need with [Head First Programming](#). Of course, this being Head First, you can forget "Hello, World!" and pages upon pages of dull, dry, boring text you'll never apply to real-world problems. By the time you've worked through the first few chapters of this book, you'll have written a numeric guessing game and interfaced with Twitter's API. And by the end of the book, you'll have a completely functional and attractive graphical desktop application! Though the authors use the dynamic and versatile Python language to apply and reinforce the general programming concepts illustrated in concrete examples and exercises, you'll be able to apply this knowledge to whatever language or software project you need or want to learn.

Search Head First Labs and O'Reilly.com

Go

Search Tips

SUBSCRIBE TO OUR RSS FEED

FOLLOW US ON Twitter

Visit our Facebook Page

Looking for **source files**, **code**, **exercise answers**, and **other materials** to go along with your Head First book? Go to [this page](#), find your book on the list, and click on the title.

The Latest Head First Tweets!

Head First (Excel and Data Analysis) author @michaelsmilton's Google Apps for Business course starts today! <http://oreil.ly/9X4IIa> 2 days ago

RT @mikehatora: Potential free book: 2 Question Survey-Mobile Platform for development, & why? <http://bit.ly/aQwnid> 7 days ago

Follow Head First Labs on Twitter!

6



We need some help constructing and deconstructing `<a>` elements. Given your new knowledge of the `<a>` element, we're hoping you can help. In each row below you'll find some combination of the label, destination, and the complete `<a>` element. Fill in any information that is missing. The first row is done for you.

Label	Destination	What you write in HTML
Hot or Not?	hot.html	<code>Hot or Not?</code>
Resume	cv.html	
	candy.html	<code>Eye Candy</code>
See my mini	mini-cooper.html	
let's play		<code>_____ </code>

there are no Dumb Questions

Q: I've seen many pages where I can click on an image rather than text. Can I use the `<a>` element for that?

A: Yes, if you put an `` element between the `<a>` tags then your image will be clickable just like text. We're not going to talk about images in depth for a few chapters, but they work just fine as links.

Q: So I can put anything between the `<a>` tags and it will be clickable? Like, say, a paragraph?

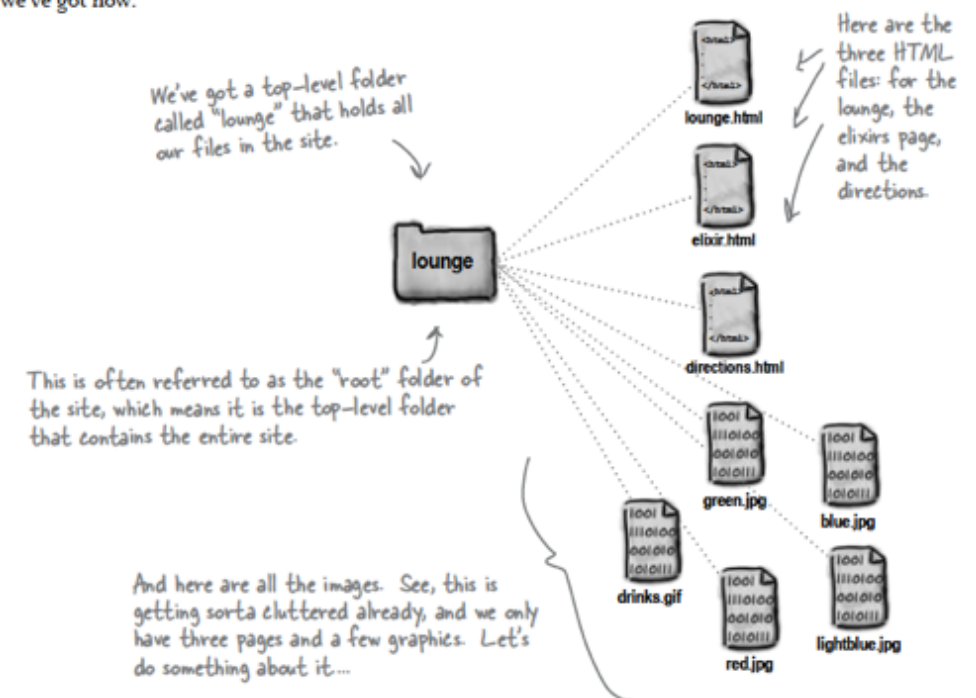
A: Whoa now. Not so fast. Not every element can be placed inside an `<a>` element. In general you'll just be using text and images (or both) within the `<a>` element. What tags will go inside other tags is a whole other topic, but don't worry, we'll get there soon enough.

Your work on the Head First Lounge has really paid off. With those enticing elixirs and directions, lots of people are frequenting the place and visiting the Web site. Now we've got plans for expanding the lounge's online content in all sorts of directions.



Getting organized

Before you start creating more HTML pages, it's time to get things organized. So far, we've been putting all our files and images in one folder. You'll find that even for modestly-sized Web sites, things are much more manageable if you organize your Web pages, graphics, and other resources into a set of folders. Here's what we've got now:



Tags dissected...

Okay, you've seen a bit of markup, so let's zoom in and take a look at how tags really work...



You usually put tags around some piece of **content**. Here we're using tags to tell the browser that our content, "Starbuzz Coffee Beverages", is a top level heading (that is, heading level one).

Here's the **opening tag** that begins the heading.

This is the **closing tag** that ends the heading; in this case the `</h1>` tag is ending an `<h1>` heading. You know it's a closing tag because it comes after the content, and it's got a `/` before the `"h1"`. All closing tags have a `/` in them.

Tags consist of the tag name surrounded by angle brackets; that is, the `<` and `>` characters.

The whole shebang is called an **element**. In this case we can call it the `<h1>` element. An element consists of the enclosing tags and the content in between.

We call an opening tag and its closing tag **matching tags**.

To tell the browser about the structure of your page, use pairs of tags around your content.

Remember,

Element = Opening Tag + Content + Closing Tag

there are no Dumb Questions

Q: So matching tags don't have to be on the same line?

A: No; remember the browser doesn't really care about tabs, returns, and most spaces. So, your tags can start and end anywhere on the same line or they can start and end on different lines. Just make sure you start with an opening tag, like `<h2>`, and end with a closing tag, like `</h2>`.

Q: Why do the closing tags have that extra `/`?

A: That `/` in the closing tag is to help both you and the browser know where a particular piece of structured content ends. Otherwise, the closing tags would look just like the opening tags, right?

Q: I've noticed the HTML in some pages doesn't always match opening tags with closing tags.

A: Well, the tags are *supposed* to match. In general, browsers do a pretty good job of figuring out what you mean if you write incorrect HTML. But, as you're going to see, these days there are big benefits to writing totally correct HTML. If you're worried you'll never be able to write perfect HTML, don't be; there are plenty of tools to verify your code before you put it on a Web server so the whole world can see it. For now, just get in the habit of always matching your opening tags with closing tags.

Q: Well, what about that `` tag in the lounge example? Did you forget the closing tag?

A: Wow, sharp eye. There are some elements that use a shorthand notation with only one tag. Keep that in the back of your mind for now and we'll come back to it in a later chapter.

Q: An element is an opening tag + content + closing tag, but can't you have tags inside other tags? Like the head and body are inside an `<html>` tag?

A: Yes, HTML tags are often "nested" like that. If you think about it, it's natural for an HTML page to have a body, which contains a paragraph, and so on. So many HTML elements have other HTML elements between their tags. We'll take a good look at this kind of thing in later chapters, but for now just get your mind noticing how the elements relate to each other in a page.



Tags can be a little more interesting than what you've seen so far. Here's the paragraph tag with a little extra added to it. What do you think this does?

```
<p id="houseblend">A smooth, mild
blend of coffees from Mexico, Bolivia
and Guatemala.</p>
```


Topics in Web Development

- The language of the Web:

Hypertext Markup Language - HTML

Cascading Style Sheets - CSS

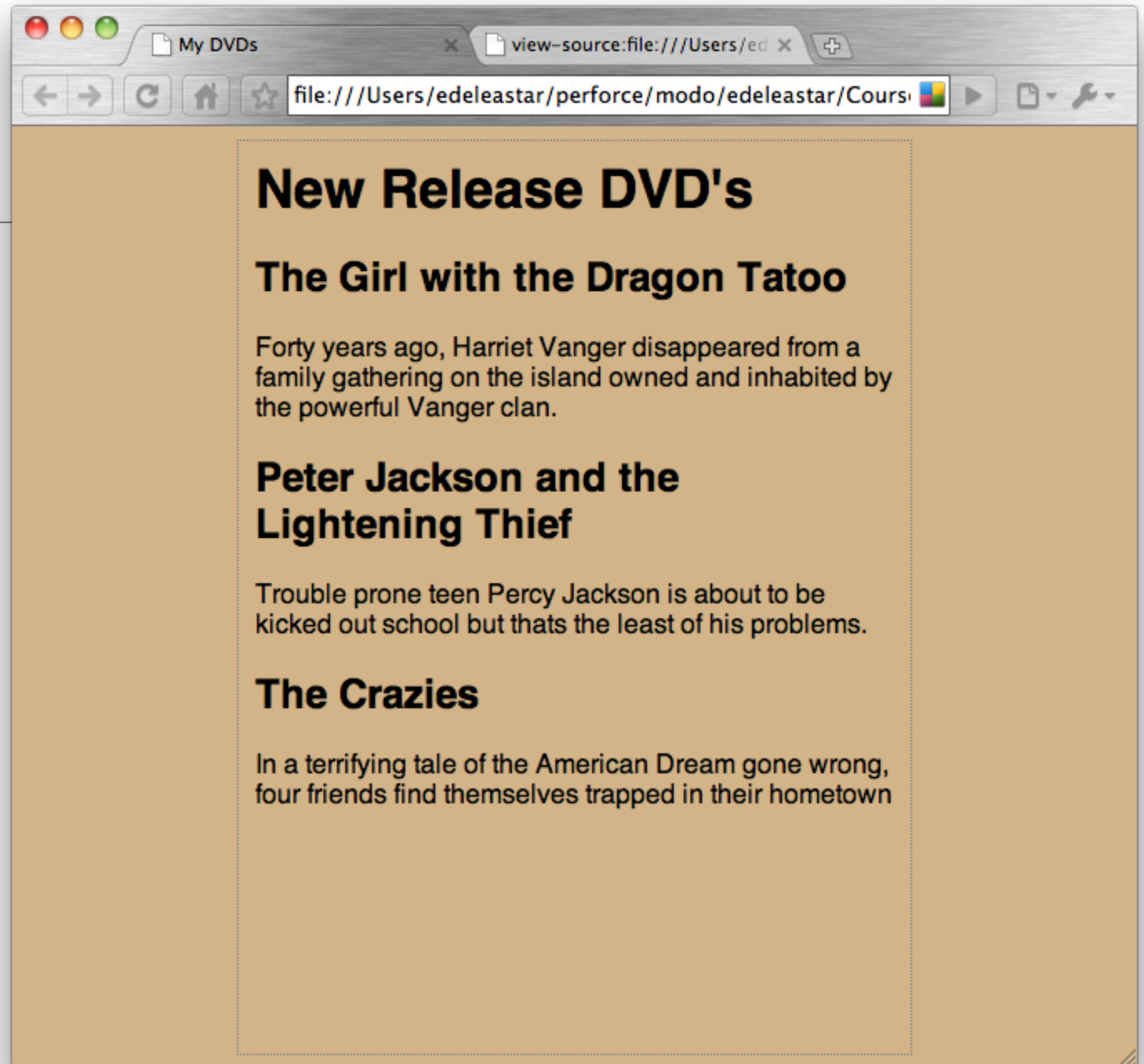
Javascript - JS

- ... by building over successive labs a simple web site from scratch.
- Focus on the structure and meaning of:

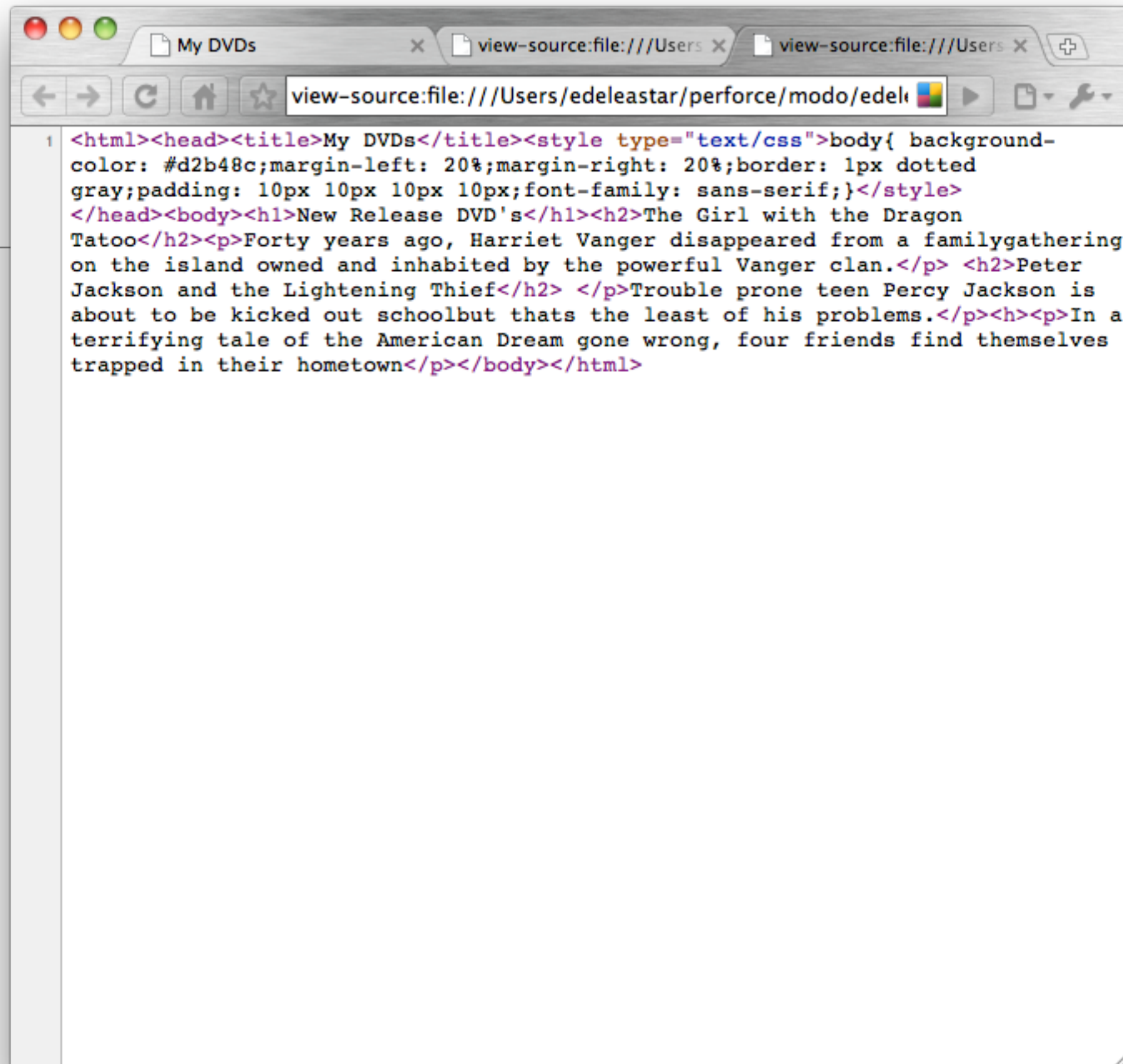
•CODE - *html, css, javascript*

Lab 01

files
documents
folders
directories
media
content



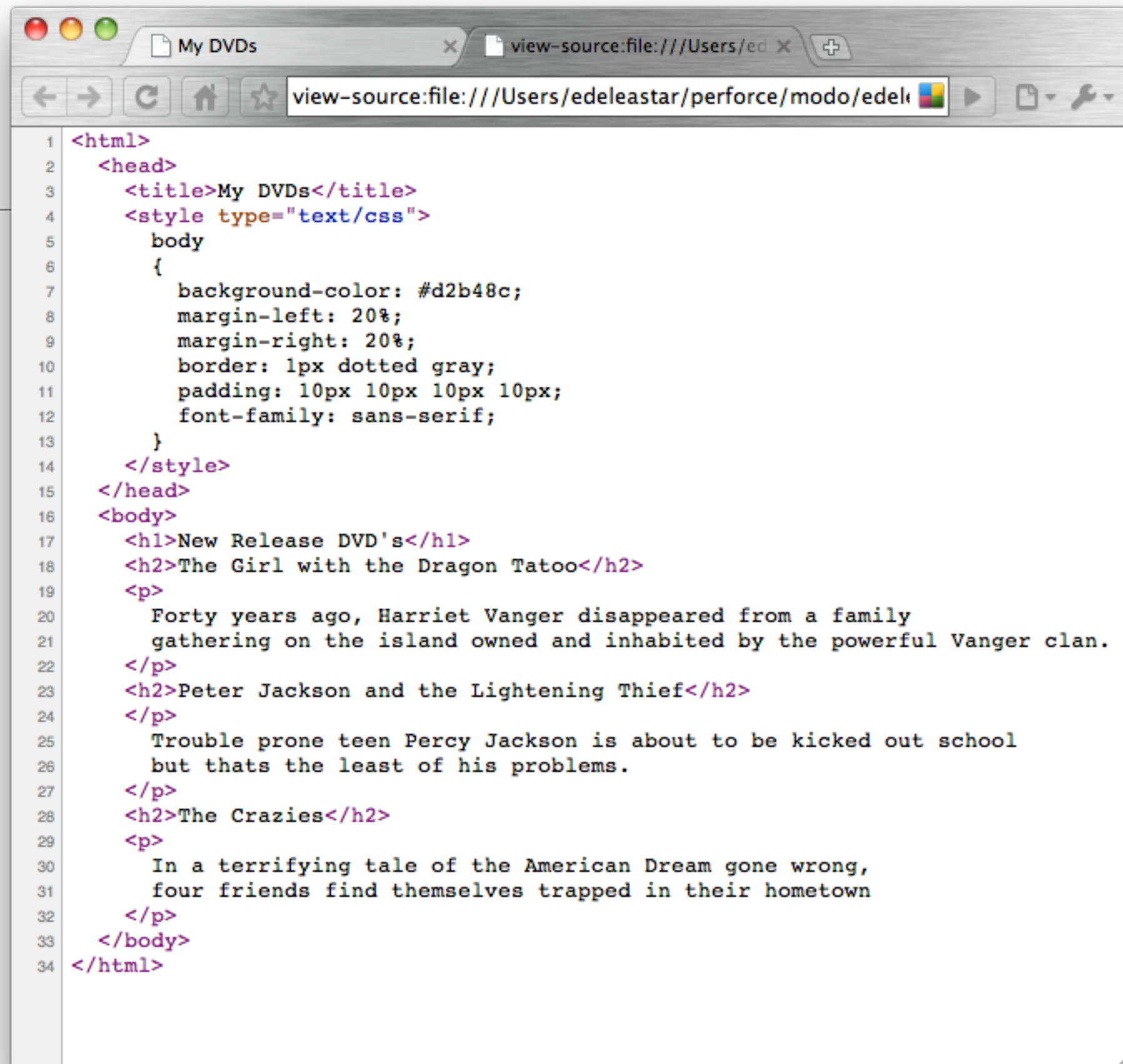
- A document rendered (displayed) in a browser



The screenshot shows a web browser window with three tabs. The first tab is titled 'My DVDs'. The second and third tabs are titled 'view-source:file:///Users...'. The address bar shows the URL 'view-source:file:///Users/edeleastar/perforce/modo/edel...'. The main content area displays the source code of an HTML document. The code is as follows:

```
1 <html><head><title>My DVDs</title><style type="text/css">body{ background-  
color: #d2b48c;margin-left: 20%;margin-right: 20%;border: 1px dotted  
gray;padding: 10px 10px 10px 10px;font-family: sans-serif;}</style>  
</head><body><h1>New Release DVD's</h1><h2>The Girl with the Dragon  
Tattoo</h2><p>Forty years ago, Harriet Vanger disappeared from a familygathering  
on the island owned and inhabited by the powerful Vanger clan.</p> <h2>Peter  
Jackson and the Lightning Thief</h2> </p>Trouble prone teen Percy Jackson is  
about to be kicked out schoolbut thats the least of his problems.</p><h><p>In a  
terrifying tale of the American Dream gone wrong, four friends find themselves  
trapped in their hometown</p></body></html>
```

- The actual document text - but poorly structured (indented)



The image shows a web browser window with two tabs. The first tab is titled 'My DVDs' and the second is 'view-source:file:///Users/ed...'. The address bar shows the file path 'view-source:file:///Users/edeleastar/perforce/modo/edel...'. The main content area displays the source code of an HTML document, which is formatted with syntax highlighting and line numbers from 1 to 34. The code defines a page titled 'My DVDs' with a specific CSS style for the body, including a blue background, margins, a dotted border, and padding. The body content includes a main heading, three sub-headings, and three paragraphs of text.

```
1 <html>
2   <head>
3     <title>My DVDs</title>
4     <style type="text/css">
5       body
6       {
7         background-color: #d2b48c;
8         margin-left: 20%;
9         margin-right: 20%;
10        border: 1px dotted gray;
11        padding: 10px 10px 10px 10px;
12        font-family: sans-serif;
13      }
14    </style>
15  </head>
16  <body>
17    <h1>New Release DVD's</h1>
18    <h2>The Girl with the Dragon Tatoo</h2>
19    <p>
20      Forty years ago, Harriet Vanger disappeared from a family
21      gathering on the island owned and inhabited by the powerful Vanger clan.
22    </p>
23    <h2>Peter Jackson and the Lightening Thief</h2>
24    <p>
25      Trouble prone teen Percy Jackson is about to be kicked out school
26      but thats the least of his problems.
27    </p>
28    <h2>The Crazies</h2>
29    <p>
30      In a terrifying tale of the American Dream gone wrong,
31      four friends find themselves trapped in their hometown
32    </p>
33  </body>
34 </html>
```

- Exactly the same document - pleasingly indented

Agenda

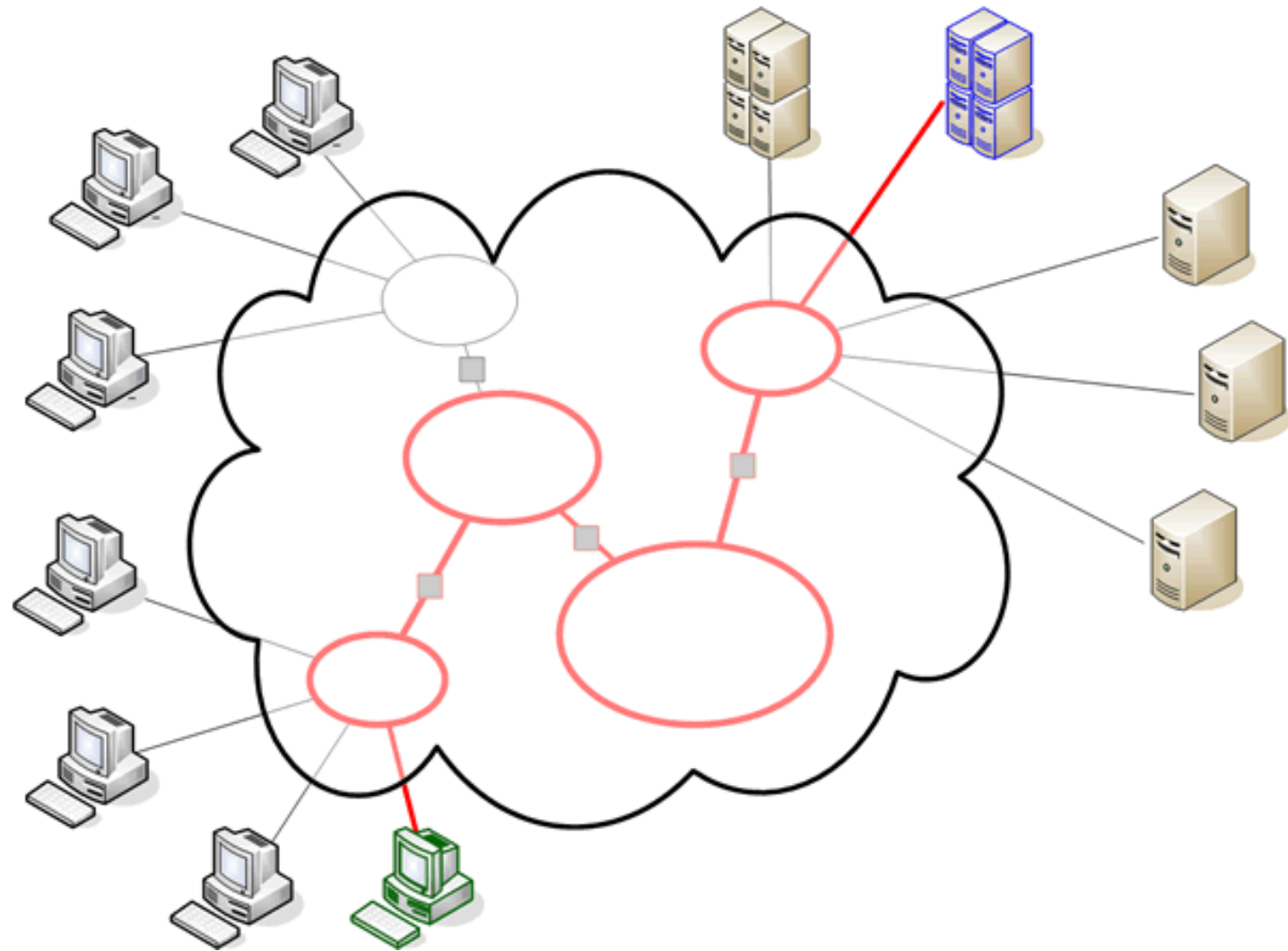
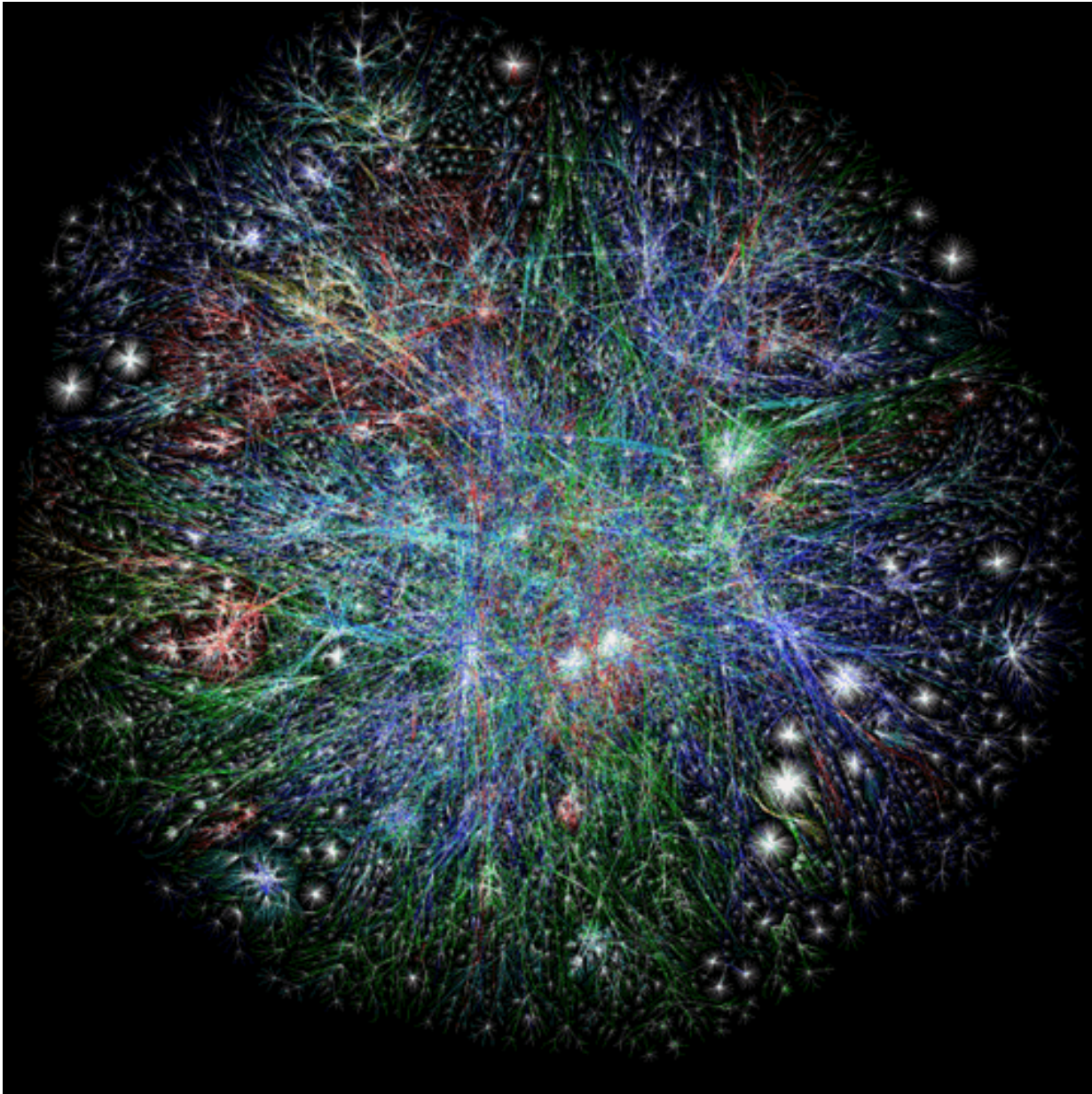
- The Module

- The Internet

- The Web

- The Labs

The Internet



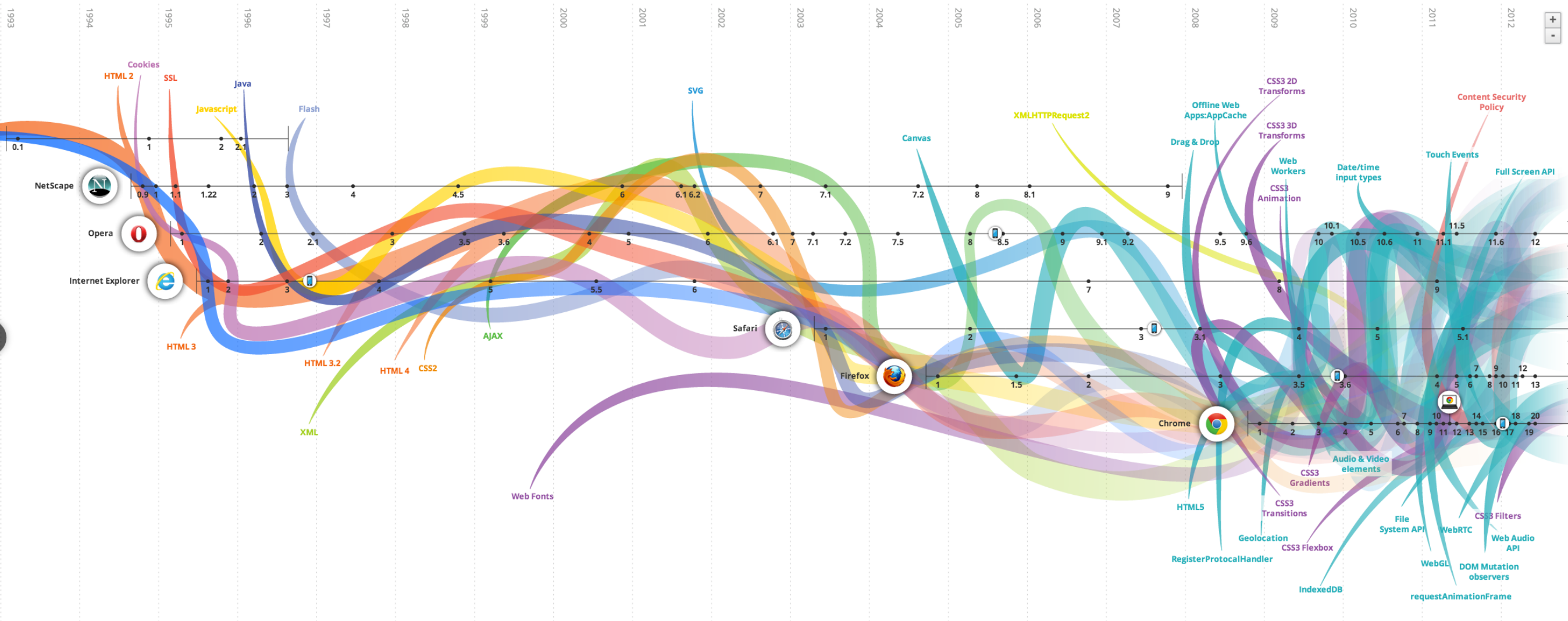
Underlying nature of the Internet - Protocols & Standards

The irony is that in all its various guises -- commerce, research, and surfing -- the Web is already so much a part of our lives that familiarity has clouded our perception of the Web itself.

[Tim Berners-Lee](#) in [Weaving the Web](#)

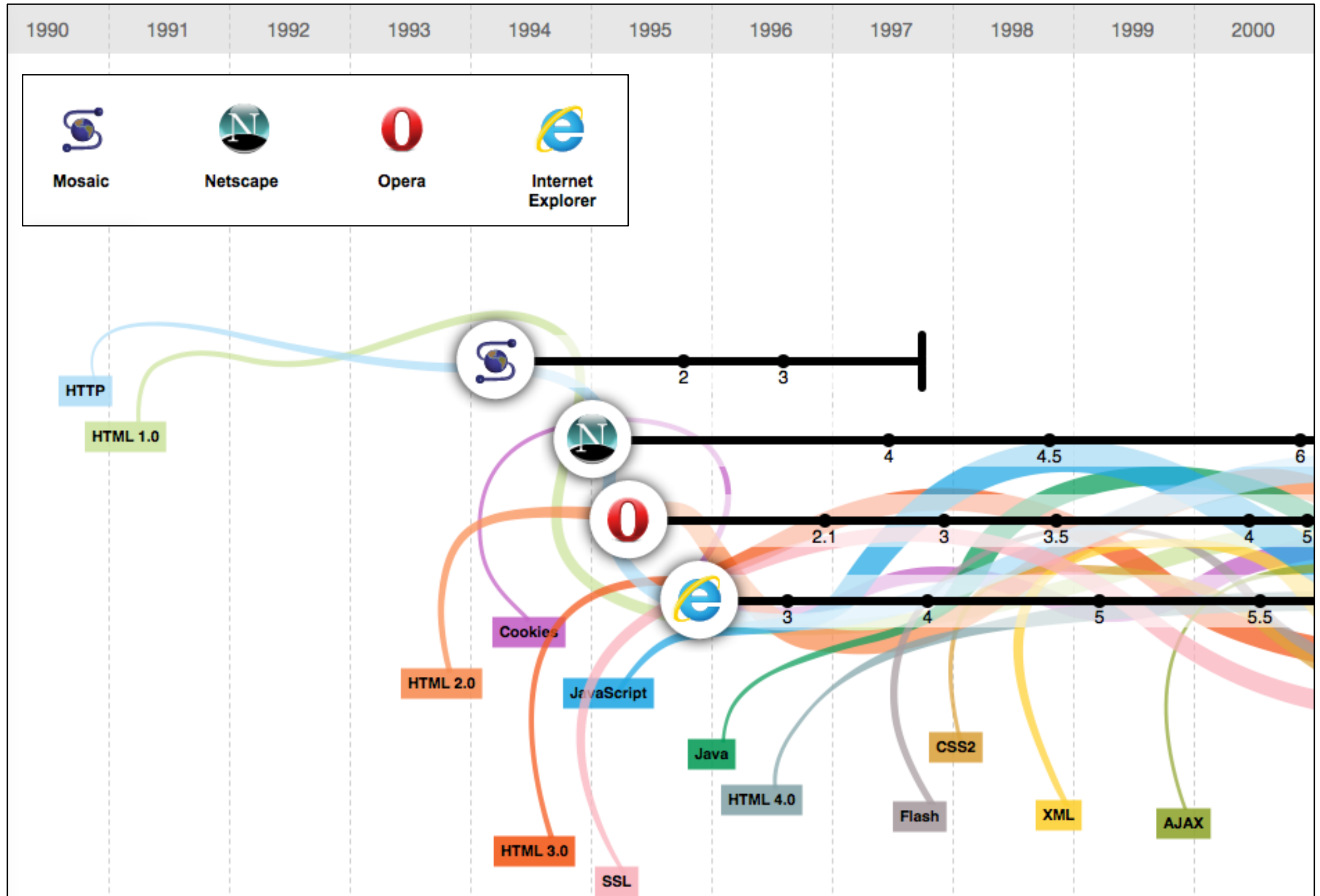
- Email
 - SMTP
 - POP
 - IMAP
- File Transfer
 - FTP
 - SFTP
 - FTP over SSH
- Login
 - Telnet
 - SSH
- Web
 - HTTP, HTML
- Messaging
 - XMPP

Evolution of the Web - 1990-2012

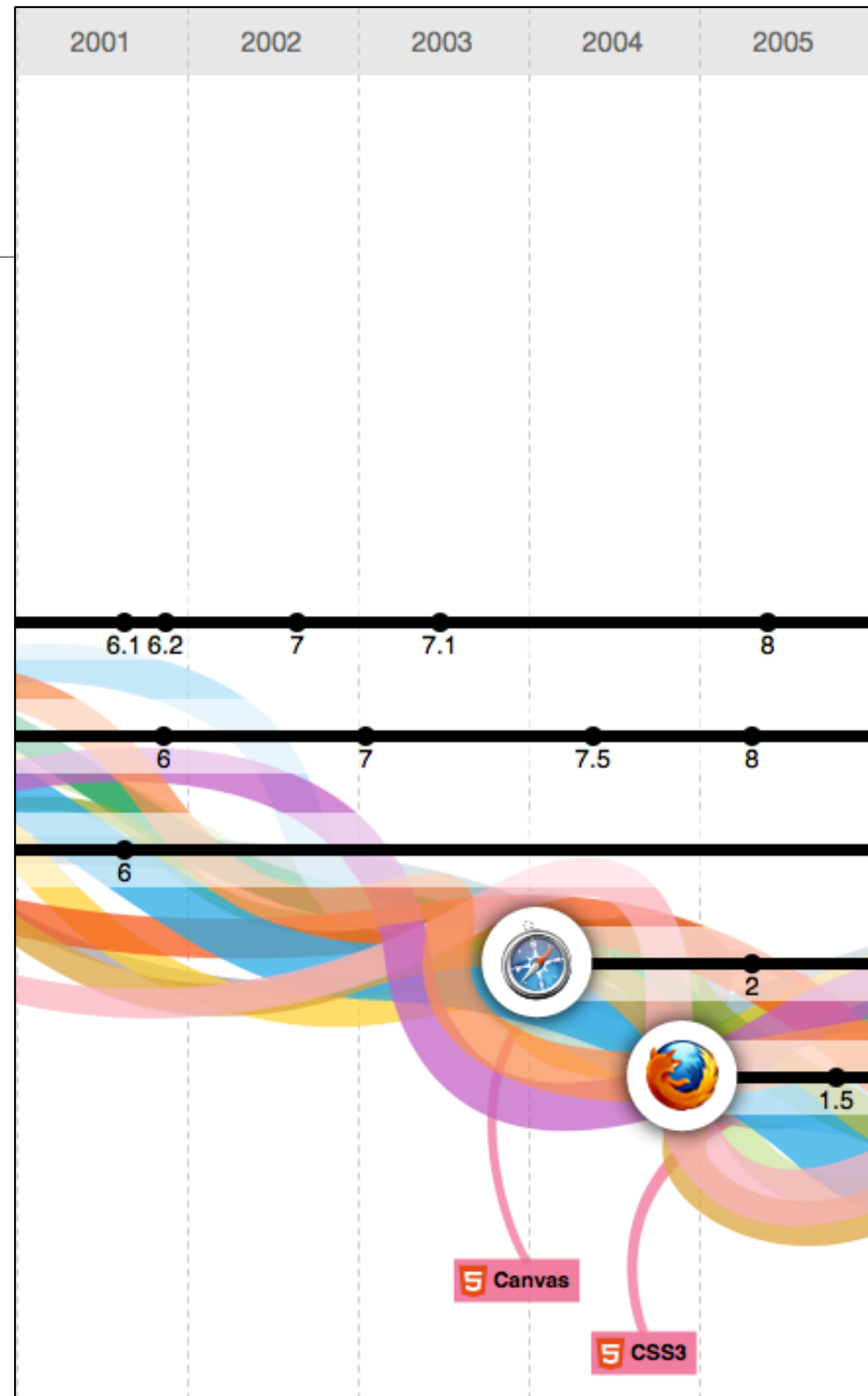
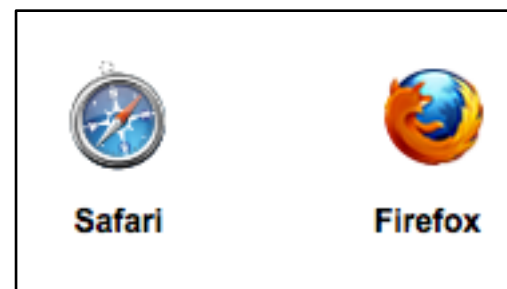


• !!

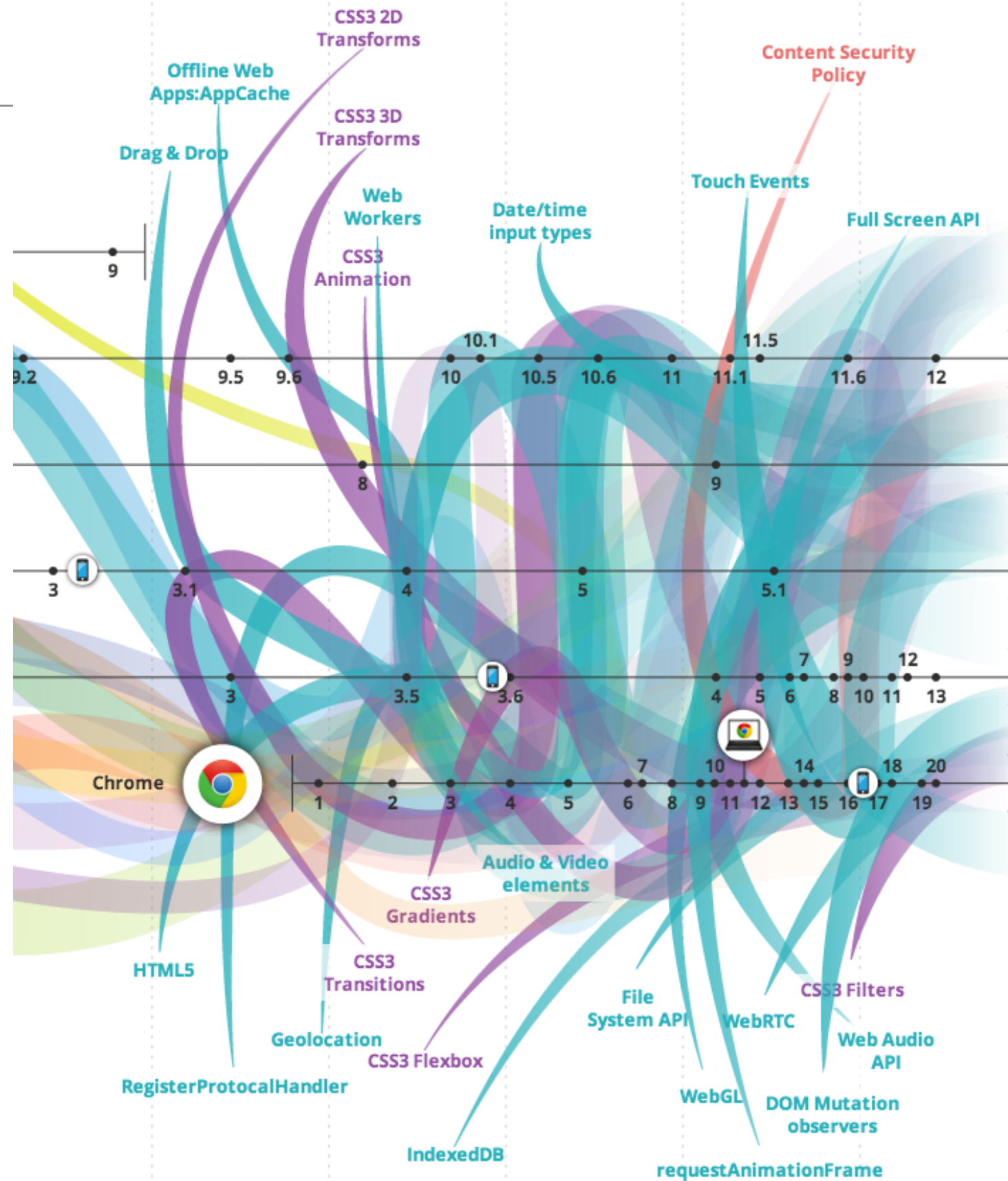
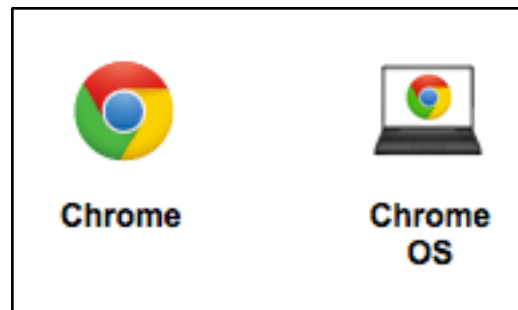
Evolution of The Web - 1990-2000



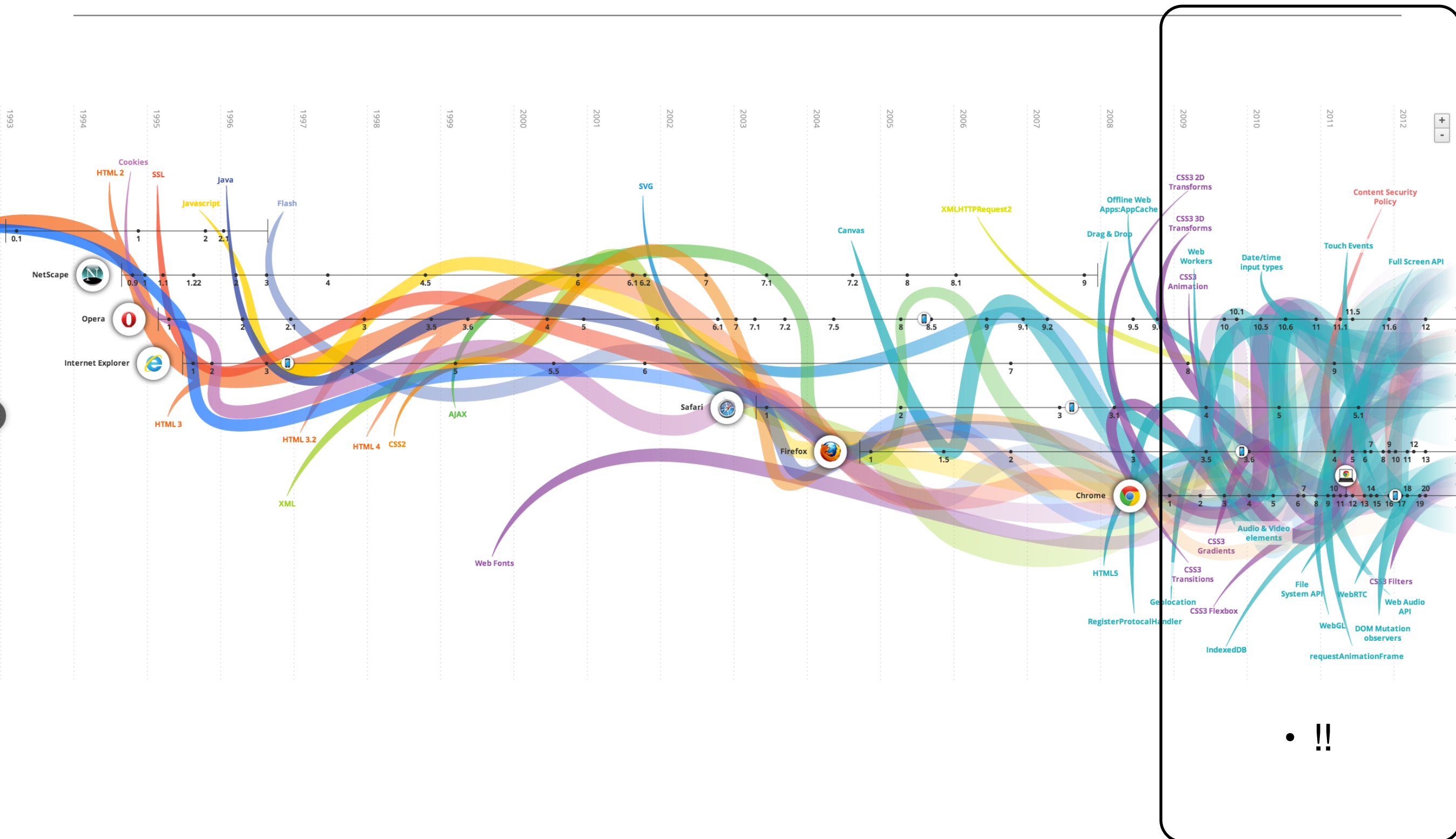
2001-2005



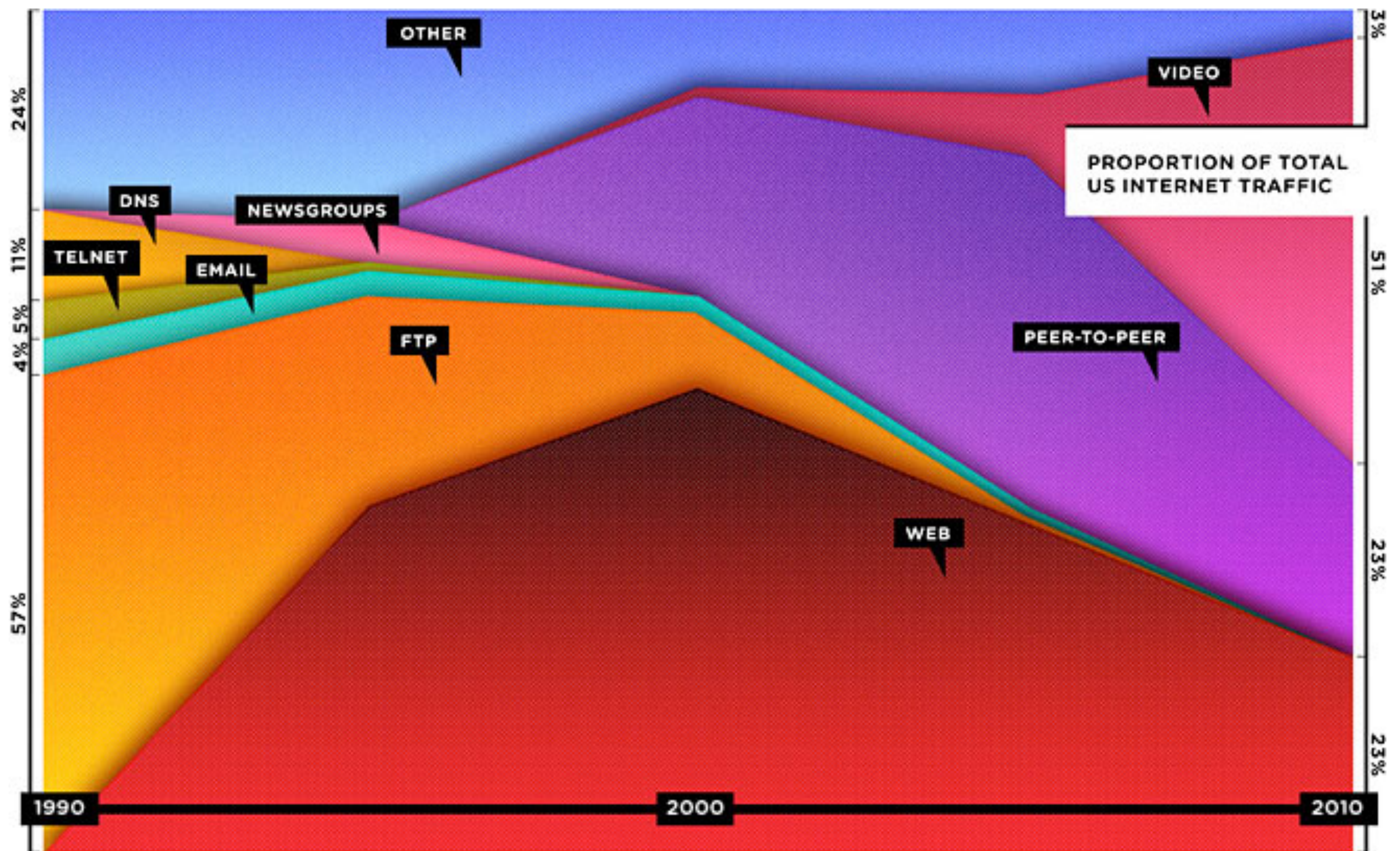
2006-2012



Evolution of the Web - 1990-2012



Evolution of Traffic Types



Top 10 Web Sites

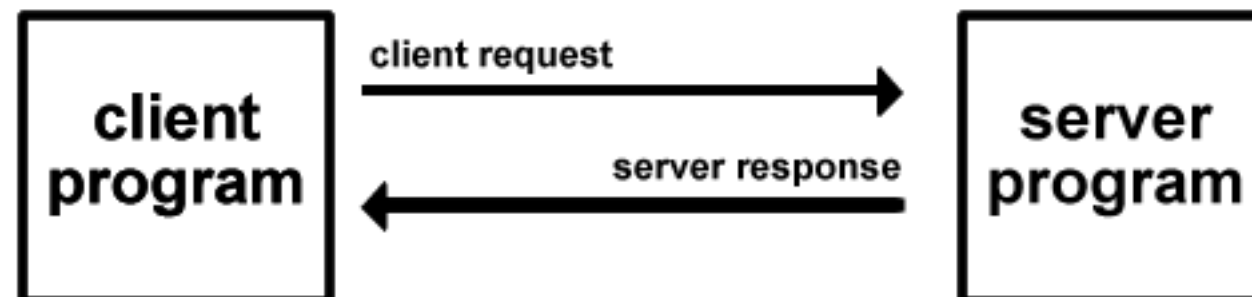
- 1 facebook.com 590,000,000 (760,000,000,000)
- 2 youtube.com 490,000,000 (92,000,000,000)
- 3 yahoo.com 400,000,000 (70,000,000,000)
- 4 live.com 330,000,000 (37,000,000,000)
- 5 wikipedia.org 260,000,000 (6,400,000,000)
- 6 msn.com 250,000,000 (13,000,000,000)
- 7 baidu.com 230,000,000 (110,000,000,000)
- 8 blogspot.com 210,000,000 (4,800,000,000)
- 9 microsoft.com 190,000,000 (3,300,000,000)
- 10 qq.com 190,000,000 (53,000,000,000)

Agenda

- The Module
- The Internet
- The Web
- The Labs

Clients and Servers

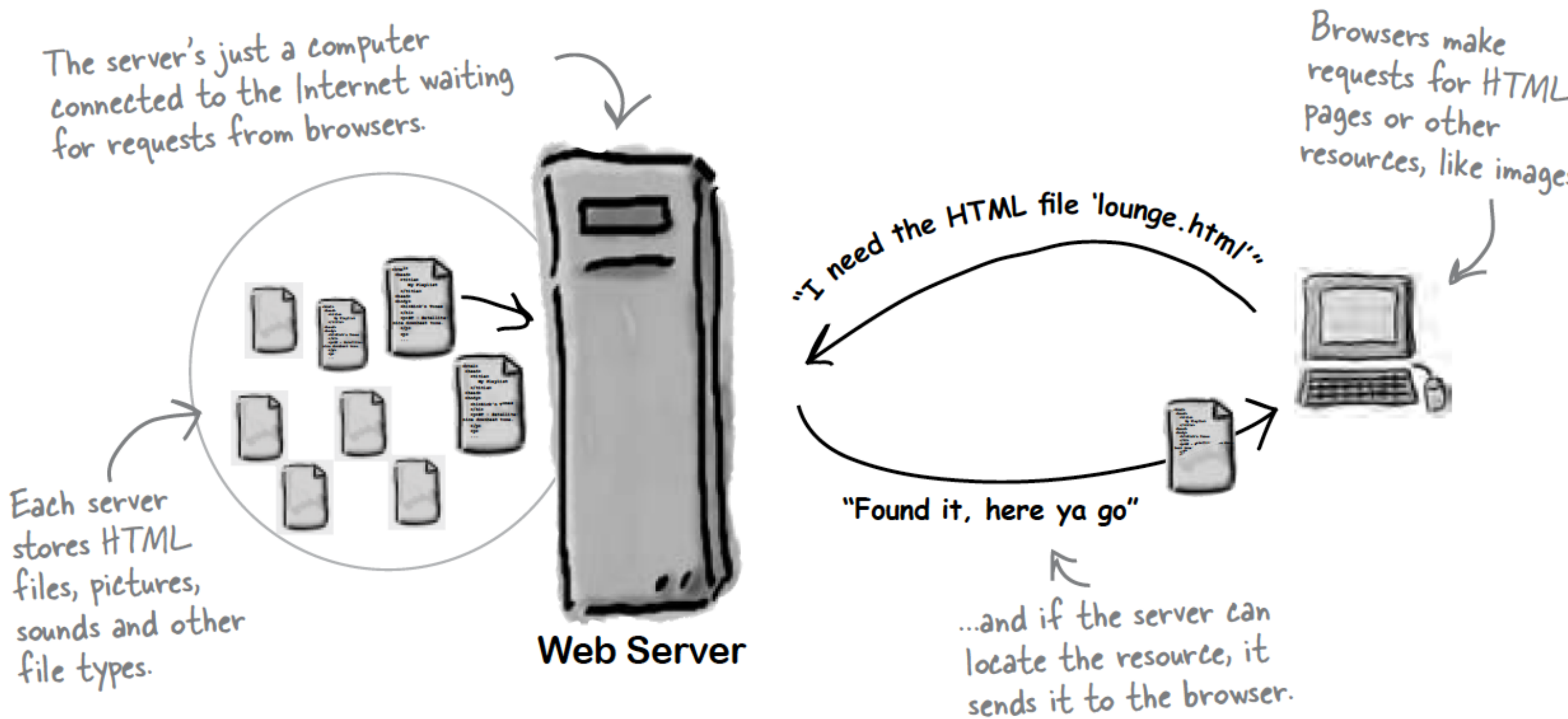
- Client/Server Computing:
 - The interaction between two programs when they communicate across a network.
 - A program at one site sends a request to a program at another site and awaits a response.
 - The requesting program is called a client; the program satisfying the request is called the server.



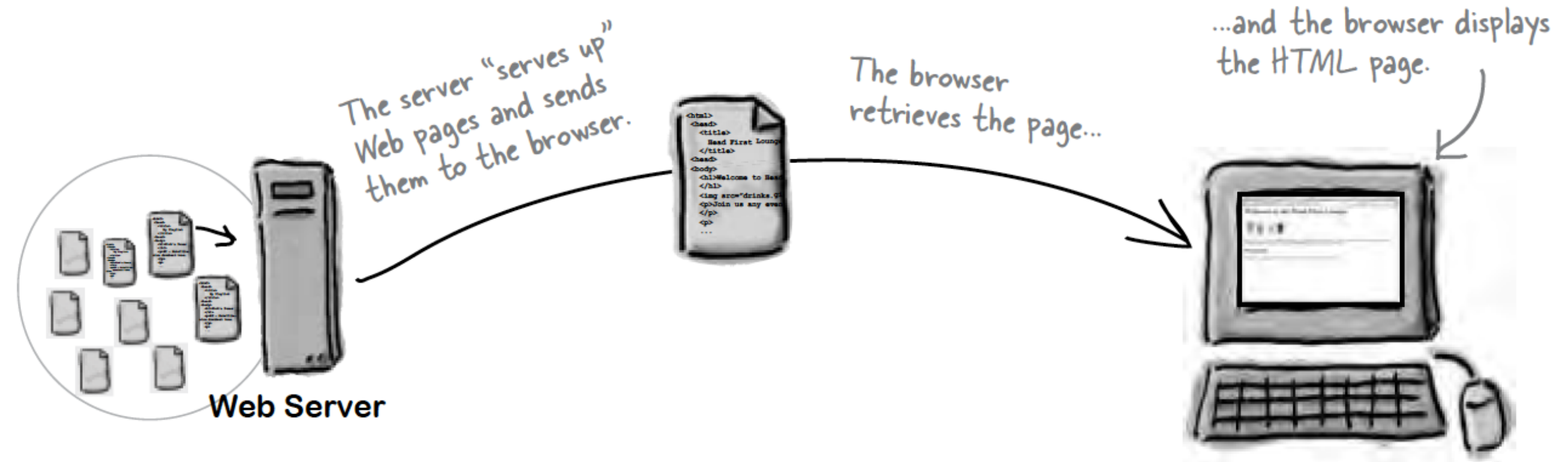
The Web

- Protocols & Standards
 - Protocol : agreed vocabulary to enable two programs to communicate
 - Standard: an agreed definition of the structure and meaning of a document
- Web Protocol
 - Hyper Text Transfer Protocol - HTTP
- Web Standard
 - Hyper Text Markup Language - HTML
- Web Servers and Web Browsers use HTTP to exchange HTML documents

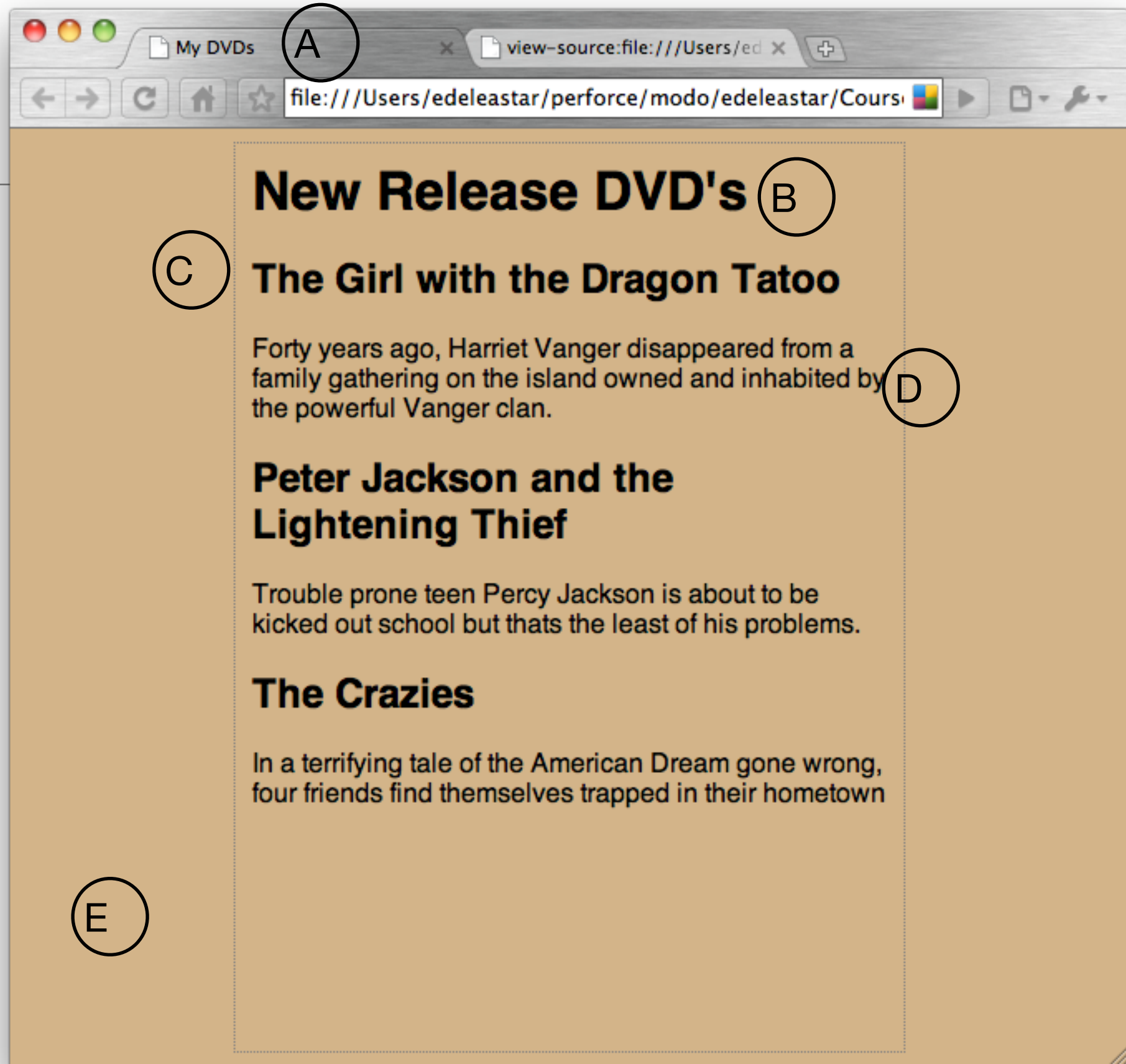
Role of Server



Role of Client



The Page




```
1 <html>
2   <head>
3     <title>My DVDs</title>
4     <style type="text/css">
5       body
6       {
7         background-color: #d2b48c;
8         margin-left: 20%;
9         margin-right: 20%;
10        border: 1px dotted gray;
11        padding: 10px 10px 10px 10px;
12        font-family: sans-serif;
13      }
14    </style>
15  </head>
16  <body>
17    <h1>New Release DVD's</h1>
18    <h2>The Girl with the Dragon Tatoo</h2>
19    <p>
20      Forty years ago, Harriet Vanger disappeared from a family
21      gathering on the island owned and inhabited by the powerful Vanger clan.
22    </p>
23    <h2>Peter Jackson and the Lightening Thief</h2>
24    <p>
25      Trouble prone teen Percy Jackson is about to be kicked out school
26      but thats the least of his problems.
27    </p>
28    <h2>The Crazies</h2>
29    <p>
30      In a terrifying tale of the American Dream gone wrong,
31      four friends find themselves trapped in their hometown
32    </p>
33  </body>
34 </html>
```

Hyper Text Markup Language

- HTML tells your browser about the structure of your document:
 - where the headings are,
 - where the paragraphs are,
 - what text needs emphasis, etc
 - what text needs to be linked
 - what images to be displayed
- Given this information, browsers have built-in default rules for how to display each of these elements.
- This information is conveyed using “Tags”, this denotes the intention of the author regarding the structure and display of the document.

HTML Tags (more correctly called Elements)

Tags for this week

```
<html>
<head>
<title>
<body>
<h1>
<h2>
<em>
<a>
<img>
<style>
```

- Grouped by purpose:
 - Structural
 - <html>, <head>, <title>, <body>
 - Text
 - Heading
 - <h1>, <h2>
 - Text
 - <p>,
 - Hypertext
 - <a>
 - Image
 -
 - Style
 - <style>

HTML Complete List.

<!--...-->
<!doctype>
<a>
<abbr>
<acronym>
<address>
<applet>
<area>

<base>
<basefont>
<bdo>
<big>
<blockquote>
<body>

<button>
<caption>
<center>
<cite>
<code>
<col>
<colgroup>
<dd>

<dfn>
<dir>
<div>
<dl>
<dt>

<fieldset>

<form>

<frame>
<frameset>
<h1>
<h2>
<h3>
<h4>
<h5>
<h6>
<head>
<hr>
<html>
<i>
<iframe>

<input>
<ins>
<isindex>
<kbd>
<label>
<legend>

<link>
<map>
<menu>
<meta>
<noframes>
<noscript>
<object>

<optgroup>
<option>

<p>
<param>
<pre>
<q>
<s>
<samp>
<script>
<select>
<small>

<strike>

<style>
<sub>
<sup>
<table>
<tbody>
<td>
<textarea>
<tfoot>
<th>
<thead>
<title>
<tr>
<tt>
<u>

<var>

Complete List by Purpose (1)

- **Structural**
 - `body, head, html, title`
- **Text**
 - `abbr, acronym, address, blockquote, br, cite, code, dfn, div, em, h1, h2, h3, h4, h5, h6, kbd, p, pre, q, samp, span, strong, var`
- **Heading**
 - `h1, h2, h3, h4, h5, h6`
- **Block**
 - `address, blockquote, div, p, pre`
- **Inline**
 - `abbr, acronym, br, cite, code, dfn, em, kbd, q, samp, span, strong, var`
- **Hypertext**
 - `a`
- **List**
 - `dl, dt, dd, ol, ul, li`
- **Applet, deprecated.**
 - `applet, param`
- **Text Extensions**
 - **Presentation**
 - `b, big, hr, i, small, sub, sup, tt`
 - **Edit**
 - `del, ins`
 - **Bi-directional text**
 - `bdo`
- **Forms**
 - **Basic Forms**
 - `form, input, label, select, option, textarea`
 - **Forms**
 - `form, input, select, option, textarea, button, fieldset, label, legend, optgroup`

Complete List by Purpose (2)

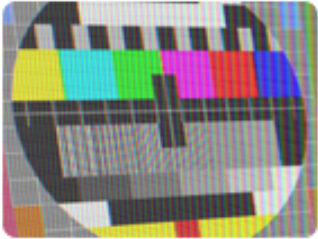
- **Tables**
 - **Basic Tables**
 - `caption, table, td, th, tr`
 - **Tables**
 - `caption, table, td, th, tr, col, colgroup, tbody, thead, tfoot`
- **Image**
 - `img`
- **Client-side Imagemap**
 - `area, map`
- **Object**
 - `object, param`
- **Frames**
 - `frameset, frame, noframes`
- **Iframe**
 - `iframe`
- **Metainformation**
 - `meta`
- **Script**
 - `script, noscript`
- **Style**
 - `style`
- **Link**
 - `link`
- **Base**
 - `base`
- **Legacy, deprecated.**
 - `basefont, center, dir, font, isindex, menu, s, strike, u`

Module: Web Development

← → ↺ 🏠 🔒 https://moodle.wit.ie/course/view.php?id=20522 🛡️ ⭐ 🕒 💬 f? 📁 ☰

Moodle Eamonn Delestar

My home / Web Development



Web Development

Table of contents

Welcome

Introducing HTML

Administration

Table of contents

0 Welcome

1 Introducing HTML

Welcome

The first part of this journey we will uncover the basics components a web page, learn the fundamental of structure of the HyperText Markup Language (HTML), the role Cascading Style Sheets (CSS) and how these two technologies can allow us to formulate a simple, elegant and navigable static web site. This will involve careful attention to the syntax and semantics of the HTML elements, the nature of CSS rules and how these combine to layout content in an appealing and effective manner.

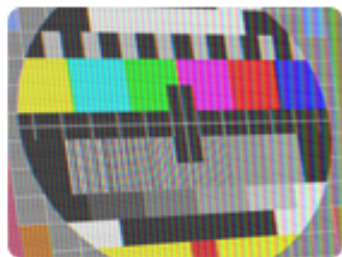
In the second part, we will transition from exploring the construction of Web Sites to simple Web Applications. This will enable us to consider how a user can interact with the site, signing up/in for instances and making information available to the site - which we now call an 'App'. This leads us to a whole new world of interesting abstractions not really exposed to the users. This include Controllers, Models, Views and the associated machinery of a Web Application Framework. Here we will build on your emerging knowledge of the Java programming language.

There will be 2 assessments in the course. The first will be a project you submit by mid term. This will be a static web site. The second will be a Web Application, which will be due at the end of Week 13.

NEXT SECTION
Introducing HTML ➔

https://moodle.wit.ie/course/view.php?id=20522§ion=1

[My home](#) / [Web Development](#) / [Introducing HTML](#)



Web Development

Table of contents



[Welcome](#)

[Introducing HTML](#)

Introducing HTML

Current section

Jump to... ▾

In this session we explore the basics of HTML. We will try to get to grips with the fundamentals of the HTML language. As you will see, its structure and format is relatively straightforward, and you will be able to understand the basics very quickly.

We will be focusing on a small number of 'tags' to get started, and also on the ways in which different html files can be linked together to form a site.

We will also be gaining an understanding of the role of the 'browser' in presenting a web page, and starting to gain an insight into how the pages are retrieved and rendered in the browser.



[b-html-page-structure](#)



[a-introduction](#)

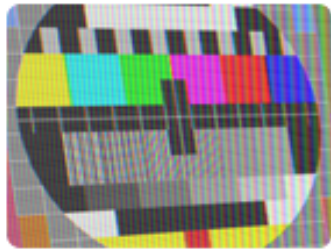


[Lab 01](#)



PREVIOUS SECTION

[Welcome](#)



Web Development

Table of contents

- 1 : Objectives**
- [2 : Setup](#)
- [3 : First Project](#)
- [4 : Project Files](#)
- [5 : Lab01 Project](#)
- [6 : CSS](#)
- [7 : Exercises](#)

Lab 01

1 : Objectives

In our first lab we will be getting familiar with a programmers editor called Eclipse. This is one of the most well known IDEs (Integrated Development Environments) and is used by programmers all over the world.

It has very powerful features - not just for web development, but also for all kinds of programming tasks and work-flows. In this lab we will be getting to know these features of Eclipse:

- Project Explorer
- Html Editor
- Web Browser Preview
- HTML Outline

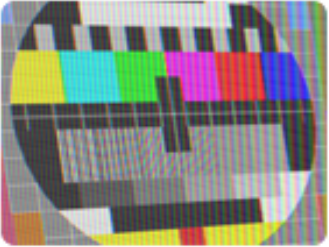


Lab 01: : Setup

← → ↺ 🏠 <https://moodle.wit.ie/mod/book/view.php?id=679400&chapterid=36263> 🔒 ⭐ 🕒 💬 f? 📁 ☰

Moodle Eamonn Delestar ▾

My home / Web Development / Introducing HTML / Lab 01



Web Development

Table of contents

1 : Objectives

2 : Setup

3 : First Project

4 : Project Files

5 : Lab01 Project

6 : CSS

7 : Exercises

Lab 01

2 : Setup

Instructions for working in Walton Building PC Labs:

If you are working on the workstations in the IT Building, locate the C: Drive in the Explorer. Navigate to C:\dev\eclipse\javascript folder. Run (double click on) the "Eclipse" application.

Proceed with the next step of the lab.

Instructions for working on your own laptop

Download and install the Eclipse IDE from

- <http://www.eclipse.org>

Select the version "Eclipse IDE for Java EE Developers". The primary prerequisite for installing Eclipse is that you have a recent Java installation on your workstation. To see if you have Java, and to install it if you do not, visit:

- <http://www.java.com>

Installing Eclipse is usually just a matter of unarchiving the Eclipse download. This unarchiving tool here will generally be much faster than native windows archive support:

- <http://www.7zip.com>

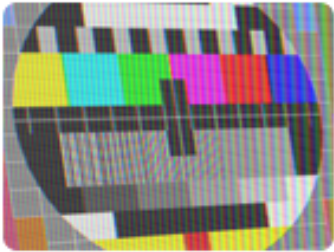
Lab 01: : First Project

https://moodle.wit.ie/mod/book/view.php?id=679400&chapterid=36266

Moodle

Eamonn Delestar

My home / Web Development / Introducing HTML / Lab 01



Web Development

Table of contents

1 : Objectives

2 : Setup

3 : First Project

4 : Project Files

5 : Lab01 Project

6 : CSS

7 : Exercises

Lab 01

3 : First Project

In Eclipse, select File->New->Other. Navigate to Web, and select "Static Web Project":

New

Select a wizard

Create a Web project for static content (HTML files) only

Wizards:

type filter text

Dynamic Web Project

Filter

HTML File

JSP File

JSP Tag

Listener

Servlet

Static Web Project

Web Fragment Project

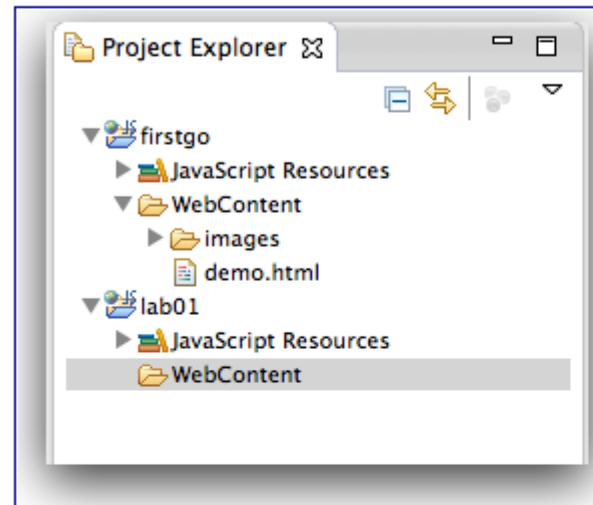
Web Services

Labs Philosophy

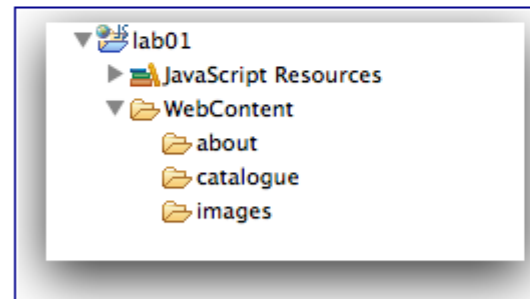
- Learn by Doing
- Supervised by tuition team
- *Do Exercises & Don't be afraid to experiment - **you cant break the web!***

5 : Lab01 Project

Create a new project called "lab01" using the same options as in the first step of this lab.



Notice that we now have two separate projects open. We will populate lab01 with some simple content to include folders inside the lab01 project as shown - to be called "about", "catalogue" and "images":



Here are four image files:



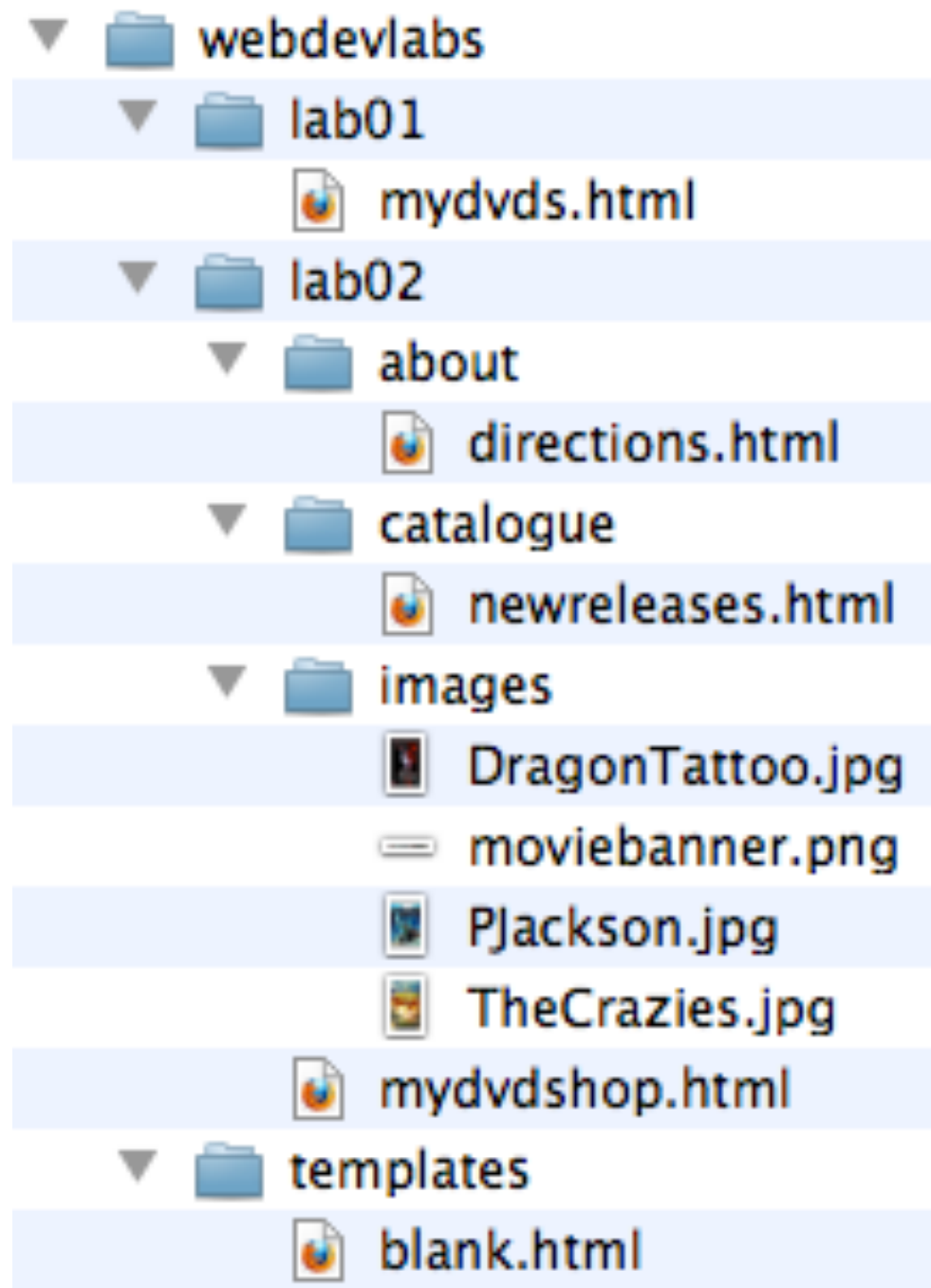
- Typical Step:
- Short motivation
- Screen shots to show outcome
- Some html to type
- More screen shots to
- show expected outcome
- Not a race! - Take your time
- 2 hours timetabled/supervised
- Reflect as you go along

Objectives for Lab 01

Be able to download, install Eclipse, and understand its key features.
In particular:

- Project Explorer
- Html Editor
- Web Browser Preview
- HTML Outline
- Be able to locate the workspace folder and understand its structure
- Have created a simple static web project, and be able to manage it within the Eclipse environment

- Complete folder structure on Disk
- A simple linked web site



JavaScript - file://C:/Users/bmullally/Documents/web-dev-ict-2013/prj/lab01/WebContent/catalogue/newreleases.html - Eclipse

File Edit Navigate Search Project Run Window Help


Project Explorer

- firstgo
- lab01
 - JavaScript Resources
 - WebContent
 - about
 - catalogue
 - newreleases.html**
 - images
 - index.html
 - style.css
 - lab02
 - lab03
 - lab04
 - lab04-spacebook

newreleases.html My DVD Shop: New Releases


file://C:/Users/bmullally/Documents/web-dev-ict-2013/prj/lab01/WebContent/catalogue/newreleases.html

The Hobbit




The first in a trilogy of films based on the enduring masterpiece The Hobbit by J.R.R. T. Baggins, who along with the Wizard Gandalf and 13 Dwarves, led by Thorin Oakenshield is swept into fearsome Dragon Smaug.

Argo



Based on real events, the dramatic thriller "Argo" chronicles the life-or-death covert c Iran hostage crisis, focusing on the little-known role that the CIA and Hollywood played-information tha


Skyfall



My DVD Shop: New Releases


file:///localhost/Users/edeleastar/dev/eworkspaces/web-dev-ict/lab01/WebCont...

The Hobbit




he first in a trilogy of films based on the enduring masterpiece The Hobbit by J.R.R. Tolkien, The Hobbit: An Unexpected Journey follows title character Bilbo Baggins, who along with the Wizard Gandalf and 13 Dwarves, led by Thorin Oakenshield is swept into an epic quest to reclaim the lost Dwarf Kingdom of Erebor from the fearsome Dragon Smaug.

Argo



Based on real events, the dramatic thriller "Argo" chronicles the life-or-death covert operation to rescue six Americans, which unfolded behind the scenes of the Iran hostage crisis, focusing on the little-known role that the CIA and Hollywood played-information that was not declassified until many years after the event.

Skyfall



Bond's loyalty to M is tested as her past comes back to haunt her. As MI6 comes under attack, 007 must track down and destroy the threat, no matter how personal the cost.

[Back to the Shop](#)

My DVD Shop

file:///localhost/Users/edeleastar/dev/eworkspaces/web-dev-ict/lab01...

Welcome to the New and Improved DVD Shop

MARCH MADNESS

MIX & MATCH:

2 CDs OR DVDs

FOR €12 OR 3 FOR €17

We have the biggest selection of DVDs and Games in Ireland. Check out our [new releases](#), This week we recommend *the Hobbit*.

Directions

You'll find us right in the center of downtown Webville. If you need help finding us, check out our [detailed directions](#). Come join us!

My DVD Shop Directions

file:///localhost/Users/edeleastar/dev/eworkspaces/web-dev-ict/lab01/WebCont...

Directions

Take the 305 S exit to Webville - go 0.4 mi

Continue on 305 - go 12 mi

Turn right at Structure Ave N - go 0.6 mi

Turn right and head toward Structure Ave N - go 0.0 mi

Turn right at Structure Ave N - go 0.7 mi

Continue on Structure Ave S - go 0.2 mi

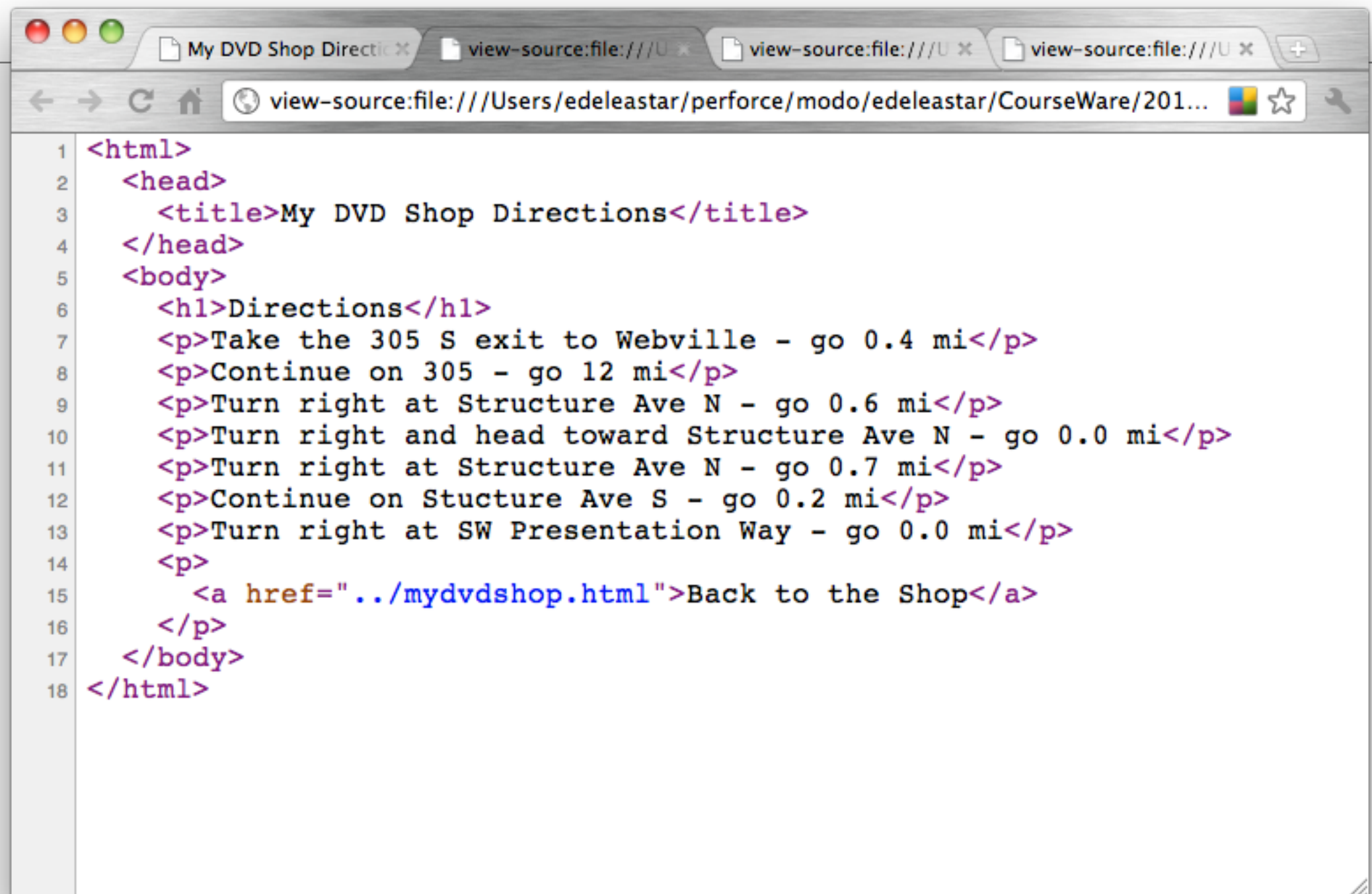
Turn right at SW Presentation Way - go 0.0 mi

[Back to the Shop](#)


```
1 <html>
2   <head>
3     <title>My DVD Shop</title>
4   </head>
5   <body>
6     <h1>Welcome to the New and Improved DVD Shop</h1>
7     
8     <p>
9       We have the biggest selection of DVDs and Games in Ireland.
10      Check out our <a href="catalogue/newreleases.html">new releases</a>,
11      This week we reccomend <em>the crazies</em>.
12    </p>
13    <h2>Directions</h2>
14    <p>
15      You'll find us right in the center
16      of downtown Webville. If you need help finding
17      us, check out our
18      <a href="about/directions.html">detailed directions</a>.
19      Come join us!
20    </p>
21  </body>
22</html>
```

```
1 <html>
2   <head>
3     <title> My DVD Shop: New Releases </title>
4   </head>
5   <body>
6     <h2>The Girl with the Dragon Tatoo</h2>
7     <p>
8       
9       Forty years ago, Harriet Vanger disappeared from a family
10      gathering on the island owned and inhabited by the powerful Vanger clan.
11    </p>
12    <h2>Peter Jackson and the Lightening Thief</h2>
13    <p>
14      
15      Trouble prone teen Percy Jackson is about to be kicked out school
16      but thats the least of his problems.
17    </p>
18    <h2>The Crazies</h2>
19    <p>
20      
21      In a terrifying tale of the American Dream gone wrong,
22      four friends find themselves trapped in their hometown
23    </p>
24    <p>
25      <a href="../mydvdshop.html">Back to the Shop</a>
26    </p>
27  </body>
28 </html>
```

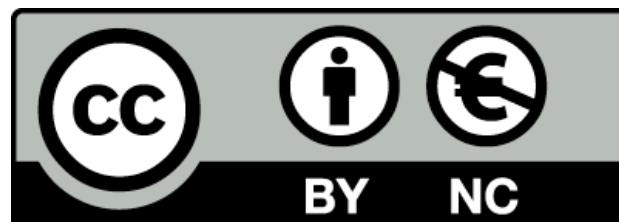
Text



```
1 <html>
2   <head>
3     <title>My DVD Shop Directions</title>
4   </head>
5   <body>
6     <h1>Directions</h1>
7     <p>Take the 305 S exit to Webville - go 0.4 mi</p>
8     <p>Continue on 305 - go 12 mi</p>
9     <p>Turn right at Structure Ave N - go 0.6 mi</p>
10    <p>Turn right and head toward Structure Ave N - go 0.0 mi</p>
11    <p>Turn right at Structure Ave N - go 0.7 mi</p>
12    <p>Continue on Stucture Ave S - go 0.2 mi</p>
13    <p>Turn right at SW Presentation Way - go 0.0 mi</p>
14    <p>
15      <a href="../mydvdshop.html">Back to the Shop</a>
16    </p>
17  </body>
18 </html>
```

Text

-
- Good Luck!



Except where otherwise noted, this content is licensed under a [Creative Commons Attribution-NonCommercial 3.0 License](http://creativecommons.org/licenses/by-nc/3.0/).

For more information, please see <http://creativecommons.org/licenses/by-nc/3.0/>



Waterford Institute of Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

