



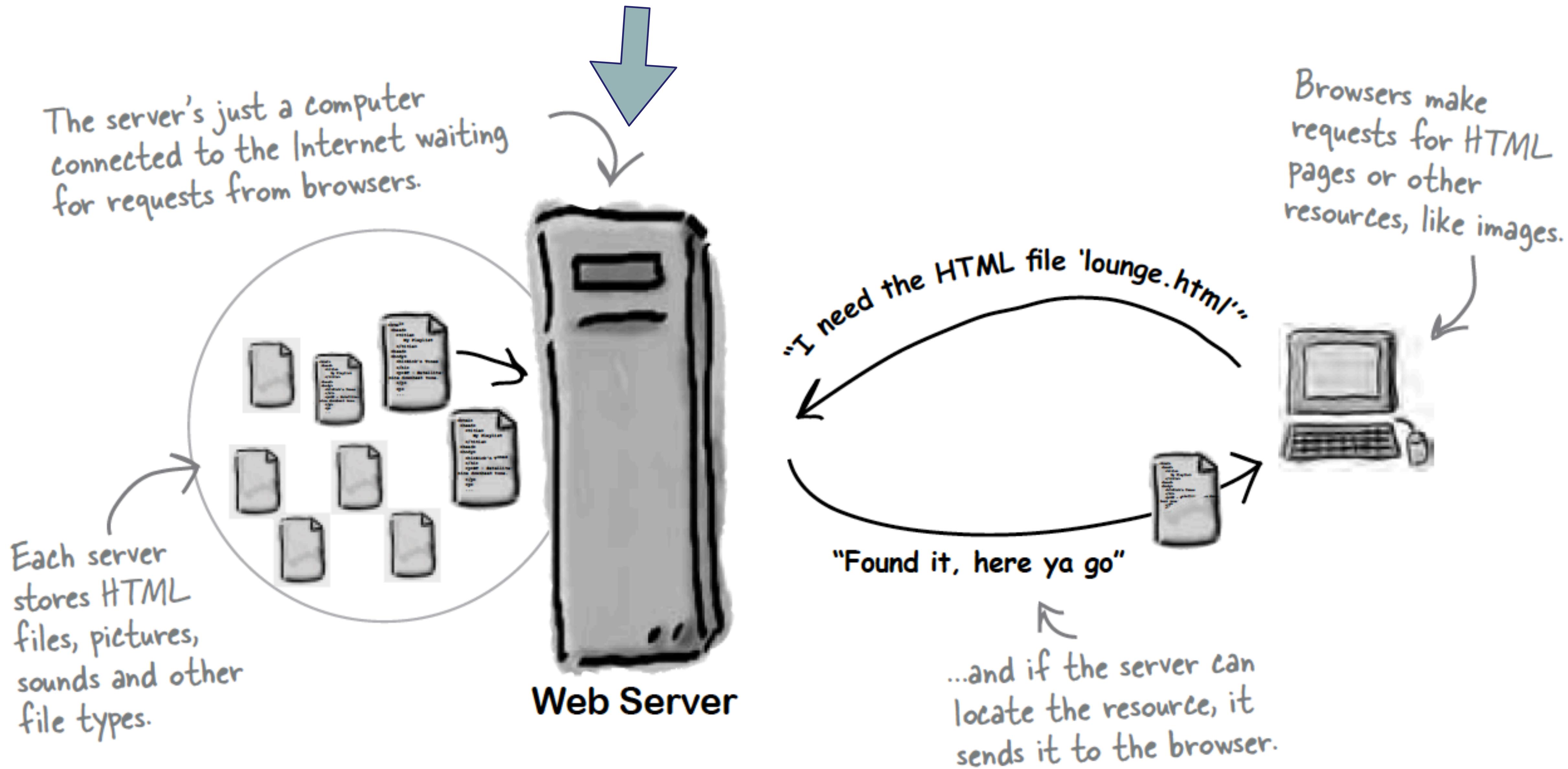
Introducing HTML

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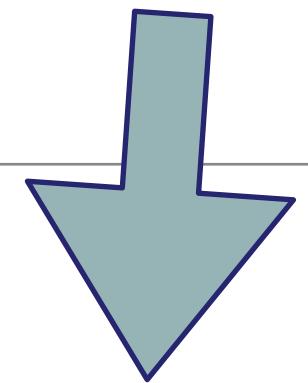


First contact with HTML:
what is it, how does it
work?

Role of Server

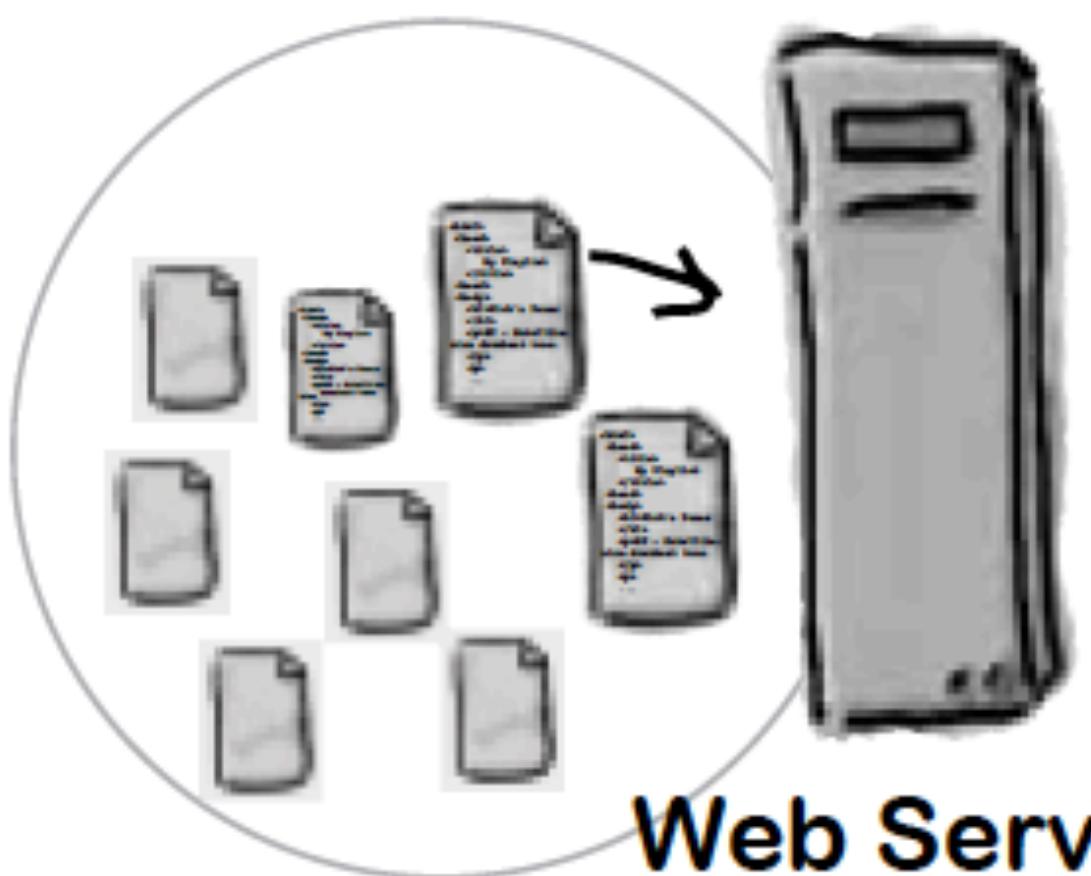
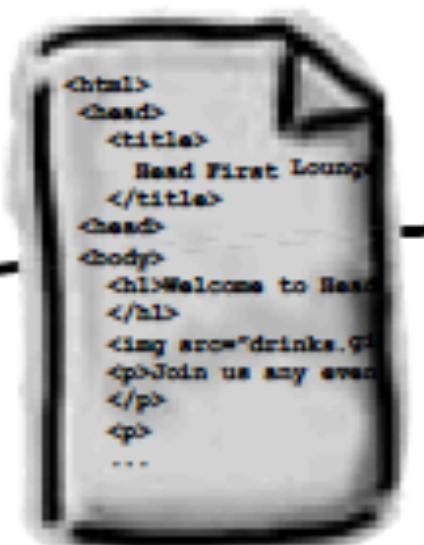


Role of Client



...and the browser displays
the HTML page.

The browser
retrieves the page...



The server "serves up"
Web pages and sends
them to the browser.

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 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 denote the intention of the author regarding the structure and display of the document.

```
<!DOCTYPE HTML>
<html>
  <head>
    <title>Bundle APP Store</title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    
    <h1>Welcome to the App Bundle Store</h1>
    <p>
      This store brings you great app bundles week after week. We select the best power user apps from a broad range of suppliers and combine them into great deals. These are the highest quality apps from the best publishers, at great prices.
    </p>
    <p>
      Whether you are interested in gaming or graphics design, software development or media production - we have the bundle for you. Each <a href="apps.html">app bundle</a> is designed to compliment the others, delivering you an exciting take on a scene.
    </p>
    <h2>Favourites</h2>
    <ul>
      <li>Hype by Tumult</li>
      <li>Webstorm by Idea</li>
      <li>Sublime, by sublimetext.com</li>
      <li>Desktop Utility by Sweet Productions</li>
    </ul>
  </body>
</html>
```



Welcome to the App Bundle Store

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Favourites

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- Webstorm by Idea
- Sublime, by sublimetext.com
- Desktop Utility by Sweet Productions

HTML

- An HTML document is called a ‘page’
- The starting page of a site is called the ‘homepage’
- Markup language should only be used for the description of the document structure and not to describe the document presentation
- Every HTML document consists of two parts:
 - Document ‘header’: contains information about the document.
 - Document ‘body’: contains the content of the document.

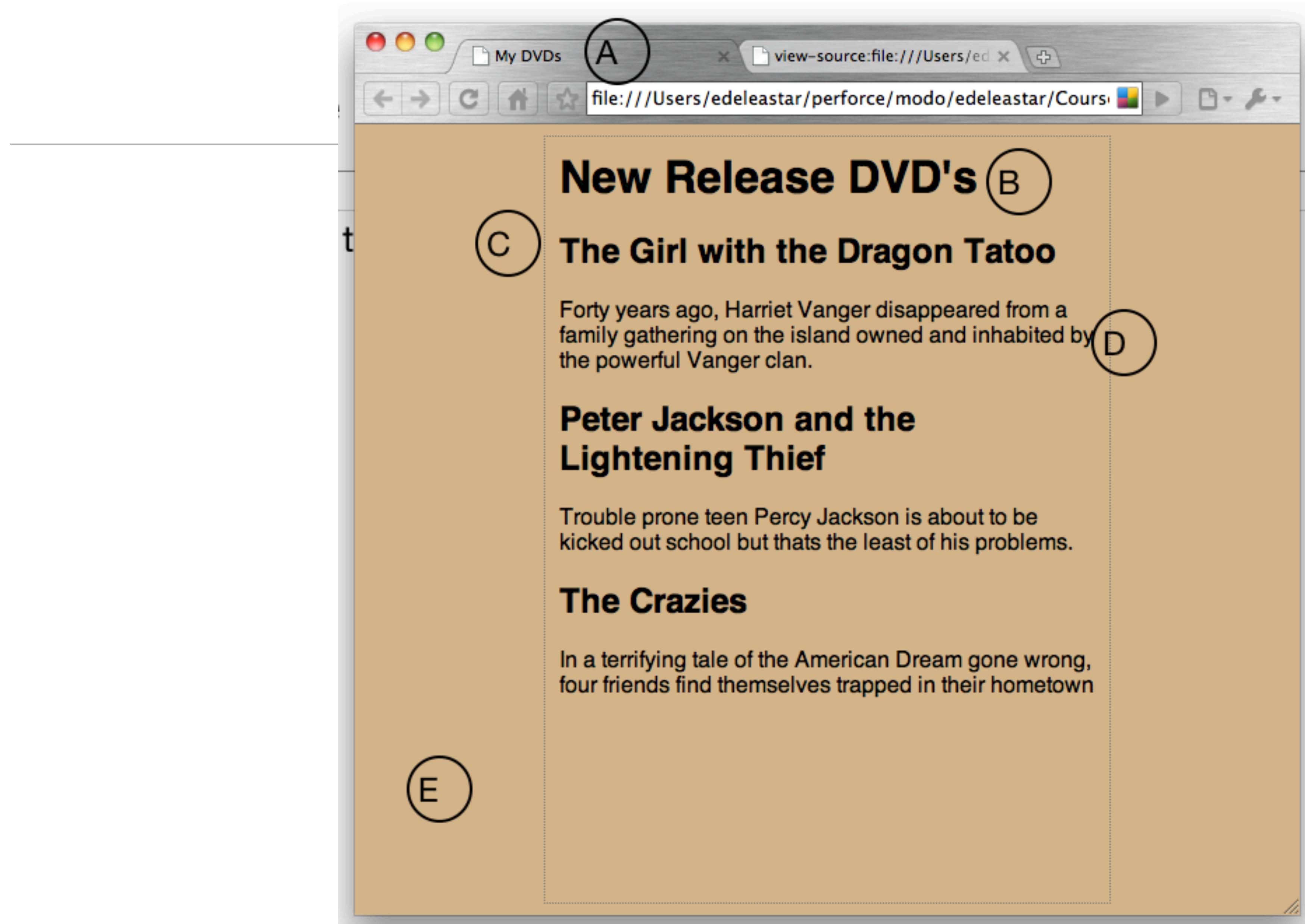
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  </body>
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```

HTML Tags (more correctly called Elements)

Starter Tags

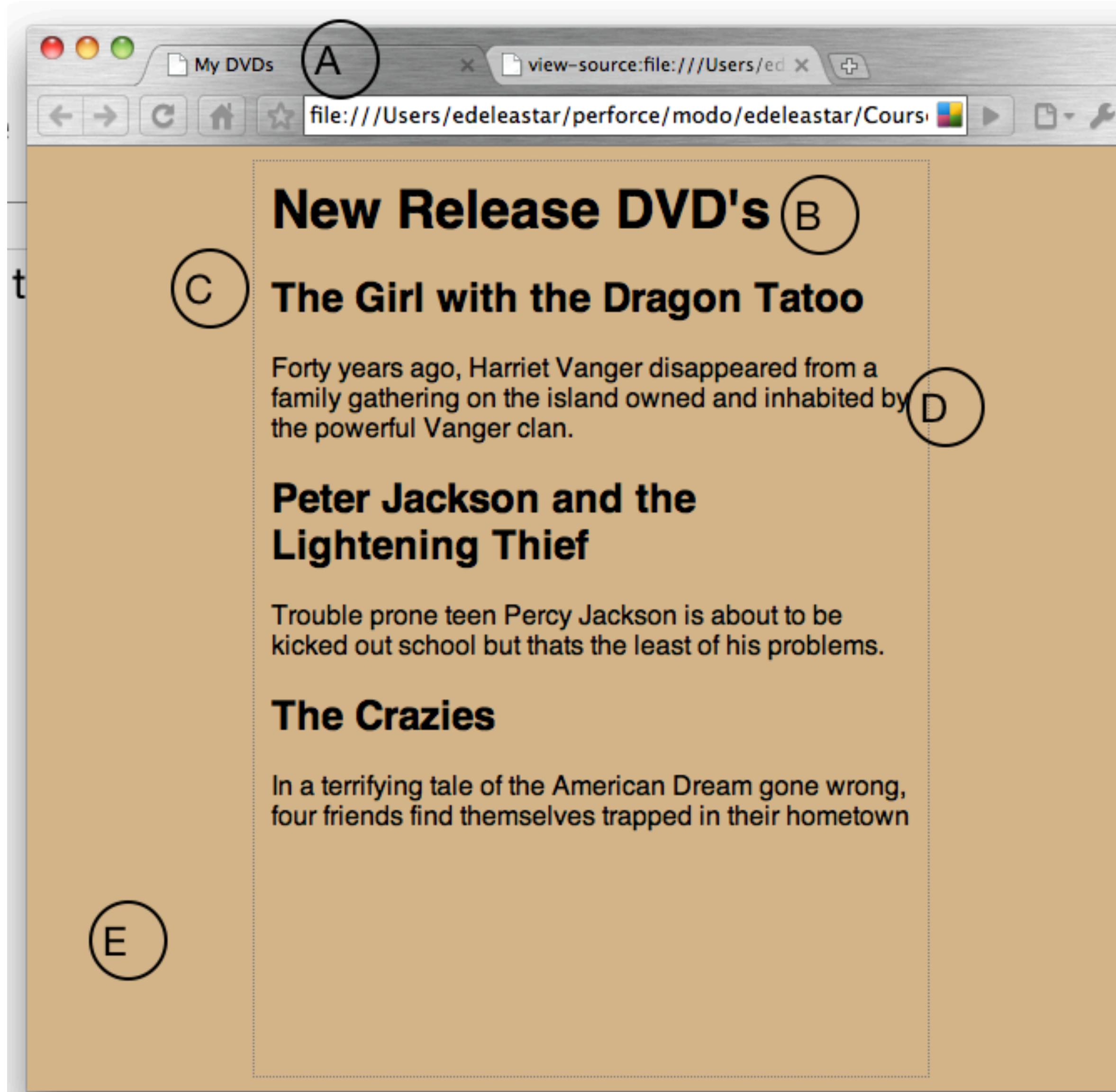
```
<html>
<head>
<title>
<body>
  <h1>
  <h2>
  <em>
  <a>
  <img>
  <style>
```

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



```
1 <html>
2   <head>
3     <title>My DVDs</title>A
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>B
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 Dclan.
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>
```

Every word in <> is a *Html Element*



A screenshot of a web browser window showing the source code of the page. The title bar says "My DVDs" and the address bar says "view-source:file:///Users/ed...". The code is numbered 1 to 34. Five circles labeled A through D point to specific parts of the code:

- A**: Points to the opening `<html>`.
- B**: Points to the heading "New Release DVD's".
- C**: Points to the heading "The Girl with the Dragon Tatoo".
- D**: Points to the text describing the plot of "The Girl with the Dragon Tatoo".
- E**: Points to the closing `</style>`.

```
1 <html>
2   <head>
3     <title>My DVDs</title>
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5       body
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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>
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20      Forty years ago, Harriet Vanger disappeared from a family
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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>
```

HTML 5 NEW TAG

TAG NOT SUPPORTED IN HTML 5

<!---->	Define a comment
<!DOCTYPE>	Defines the document type
<a>	Defines a hyperlink
<abbr>	Defines an abbreviation
<acronym>	Used to define an embedded acronyms
<address>	Defines an address element
<applet>	Used to define an embedded applet
<area>	Defines an area inside an image map
<article>	Defines an article
<aside>	Defines content aside from the page content
<audio>	Defines sound content
	Defines bold text
<base>	Defines a base URL for all the links in a page
<basefont>	Used to define a default font-color, font-size, or font-family for all the document
<bdo>	Defines the direction of text display
<big>	Used to make text bigger
<blockquote>	Defines a long quotation
<body>	Defines the body element
 	Inserts a single line break
<button>	Defines a push button
<canvas>	Defines graphics
<caption>	Defines a table caption
<center>	Used to center align text and content
<cite>	Defines a citation
<code>	Defines computer code text
<col>	Defines attributes for table columns
<colgroup>	Defines groups of table columns
<command>	Defines a command button

<datalist>	Defines a dropdown list
<dd>	Defines a definition description
	Defines deleted text
<details>	Defines details of an element
<dialog>	Defines a dialog (conversation)
<dfn>	Defines a definition term
<dir>	Used to define a directory list
<div>	Defines a section in a document
<dl>	Defines a definition list
<dt>	Defines a definition term
	Defines emphasized text
<embed>	Defines external interactive content or plugin
<fieldset>	Defines a fieldset
<figure>	Defines a group of media content, and their caption
	Used to define font face, font size, and font color of text
<footer>	Defines a footer for a section or page
<form>	Defines a form
<frame>	Used to define one particular window (frame) within a frameset
<frameset>	Used to define a frameset, which organized multiple windows (frames)
<h1> to <h6>	Defines header 1 to header 6
<head>	Defines information about the document
<header>	Defines a header for a section or page
<hgroup>	Defines information about a section in a document
<hr>	Defines a horizontal rule
<html>	Defines an html document
<i>	Defines italic text
<iframe>	Defines an inline sub window
	Defines an image
<input>	Defines an input field
<ins>	Defines inserted text
<keygen>	Defines a generated key in a form
<kbd>	Defines keyboard text
<label>	Defines an inline sub window for, form
<legend>	Defines a title in a fieldset
	Defines a list item value
<link>	Defines a resource reference
<map>	Defines an image map
<mark>	Defines marked text
<menu>	Defines a menu list
<meta>	Defines meta information
<meter>	Defines measurement within a predefined range
<nav>	Defines navigation links
<noframes>	Used to display text for browsers that do not handle frames
<noscript>	Defines a noscript section
<object>	Defines an embedded object
	Defines an ordered list
<optgroup>	Defines an option group
<option>	Defines an option in a drop-down list
<output>	Defines some types of output
<p>	Defines a paragraph
<param>	Defines a parameter for an object
<pre>	Defines preformatted text
<progress>	Defines progress of a task of any kind
<q>	Defines a short quotation
<rp>	Used in ruby annotations to define what to show browsers that do not support the ruby element
<rt>	Defines explanation to ruby annotations
<ruby>	Defines ruby annotations
<s>, <strike>	Used to define strikethrough text.

Periodic table of HTML elements

The table illustrates the classification of HTML elements into major categories:

- base**
- metadata**
- sectioning**
- text-content**
- text-semantics**
- media**
- embedded**
- script**
- edits**
- table**
- forms**
- interactive**
- web-components**

Legend:

- content
- element
- shadow
- template

html													output		
base	h1-h6								strong	area	param	caption	th	input	progress
head	hgroup								sub	audio	source	col	thead	keygen	select
style	nav	figcaption	p	bdi	data	mark	ruby	sup	map	canvas	colgroup	tr	label	details	
title	section	figure	pre	bdo	dfn	q	s	time	track	noscript	table	button	legend	dialog	
address	dd	hr	ul	br	em	rp	samp	u	video	script	tbody	datalist	meter	menu	
article	div	li	abbr	cite	i	rt	small	var	embed	del	td	fieldset	optgroup	menuitem	
footer	dl	main	b	code	kbd	rtc	span	wbr	object	ins	tfoot	form	option	summary	
header	dt	ol													

Major Categories of Elements

- html
- base
- address
- dd
- abbr
- audio
- Base
- Metadata
- Sectioning
- Text Content
- Text Semantics
- Media

- embed
- script
- del
- table
- form
- dialog
- template
- Embedded
- Script
- Edits
- Table
- Forms
- Interactive
- Web Components