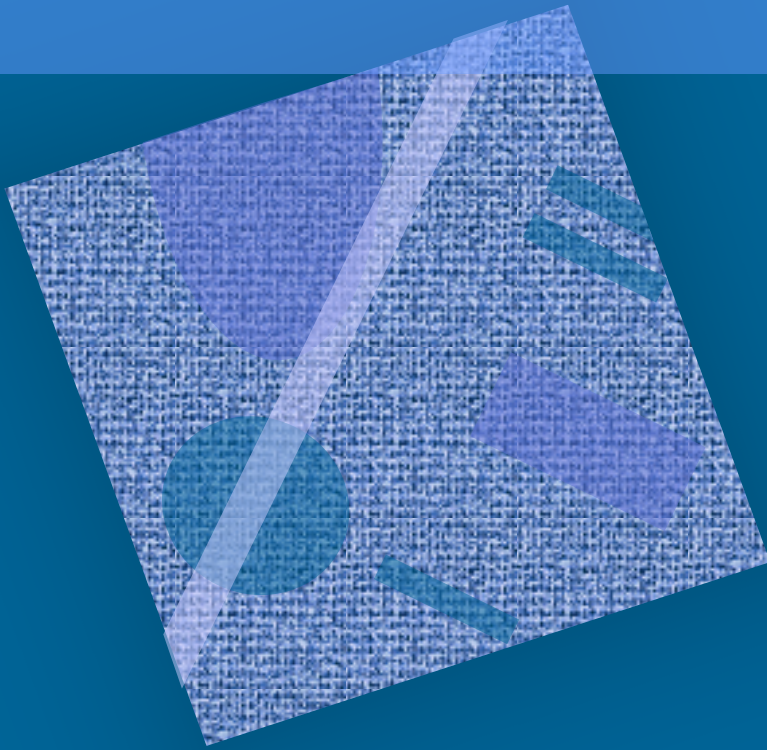


COMS 359: Interactive Media



Agenda

- Review
- HTML
 - Introduction
 - Structure
- Preview

Review

gunkelweb.com/coms359



Interactive Media Production I

Dr. David J. Gunkel
Department of Communication
Northern Illinois University
Fall 2018



Tweets by @David_Gunkel



David J. Gunkel
@David_Gunkel

Trying out a new profile image courtesy of this morning's exchange about #robotrights with @johnchavens. Now it's all about the book (with thanks to the designers at @mitpress).



Aug 26, 2018



David J. Gunkel
@David_Gunkel

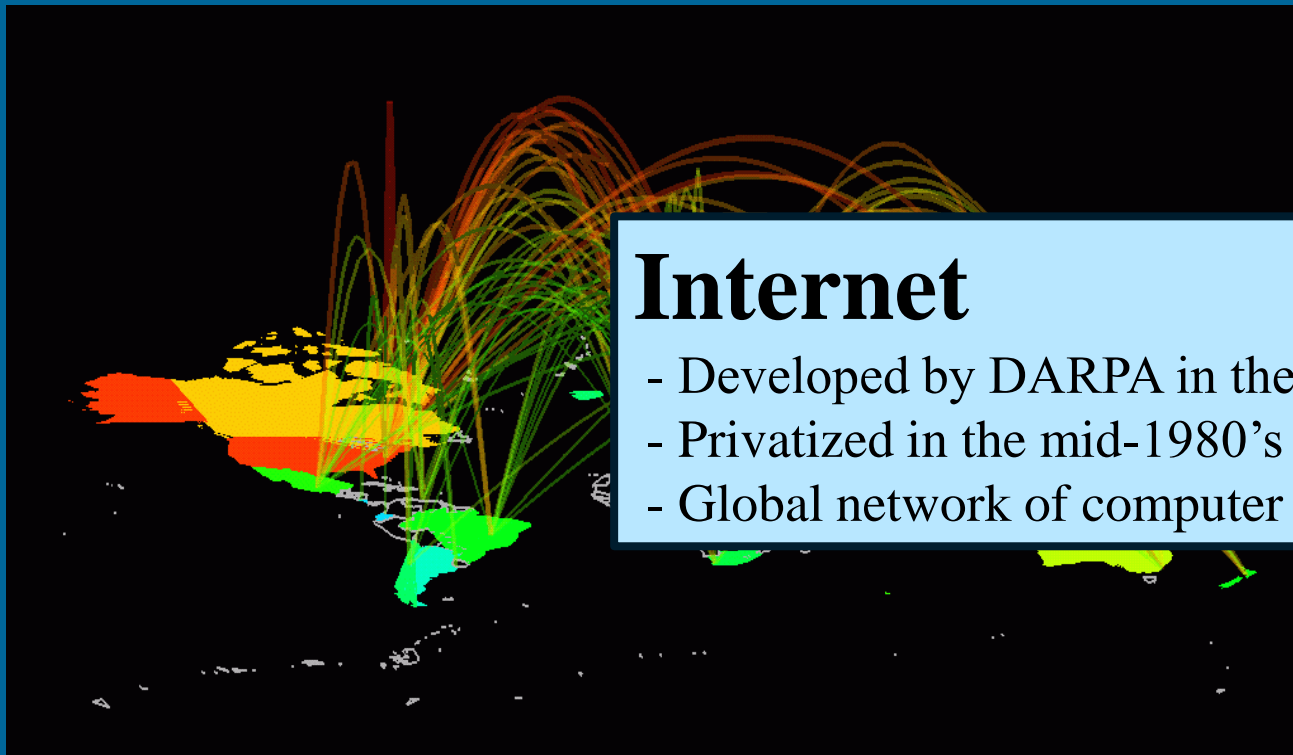
More evidence/support for the debate concerning #robotrights - Extending the rights of personhood to what have been typically considered inanimate objects. It appears that this is no longer a question of

[Embed](#)

[View on Twitter](#)

Introduction

- World Wide Web vs. Internet

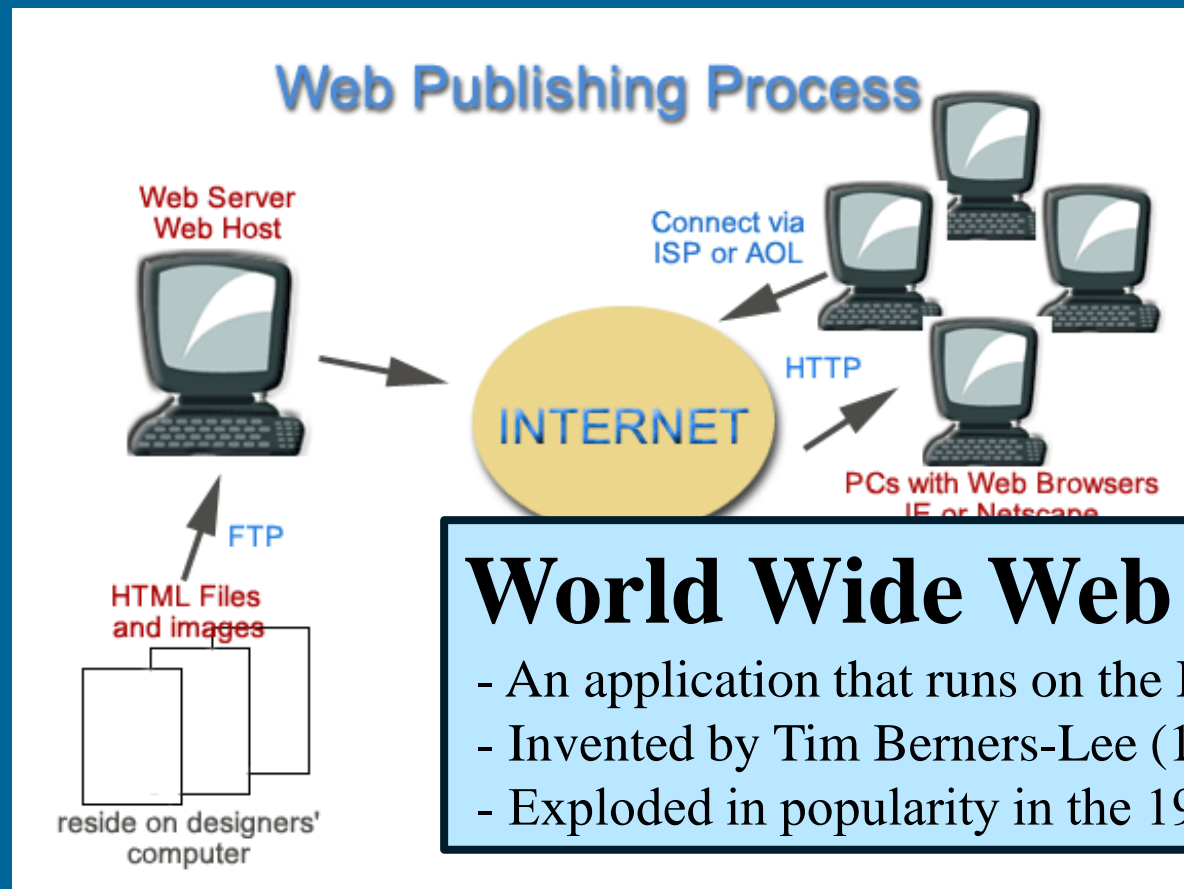


Internet

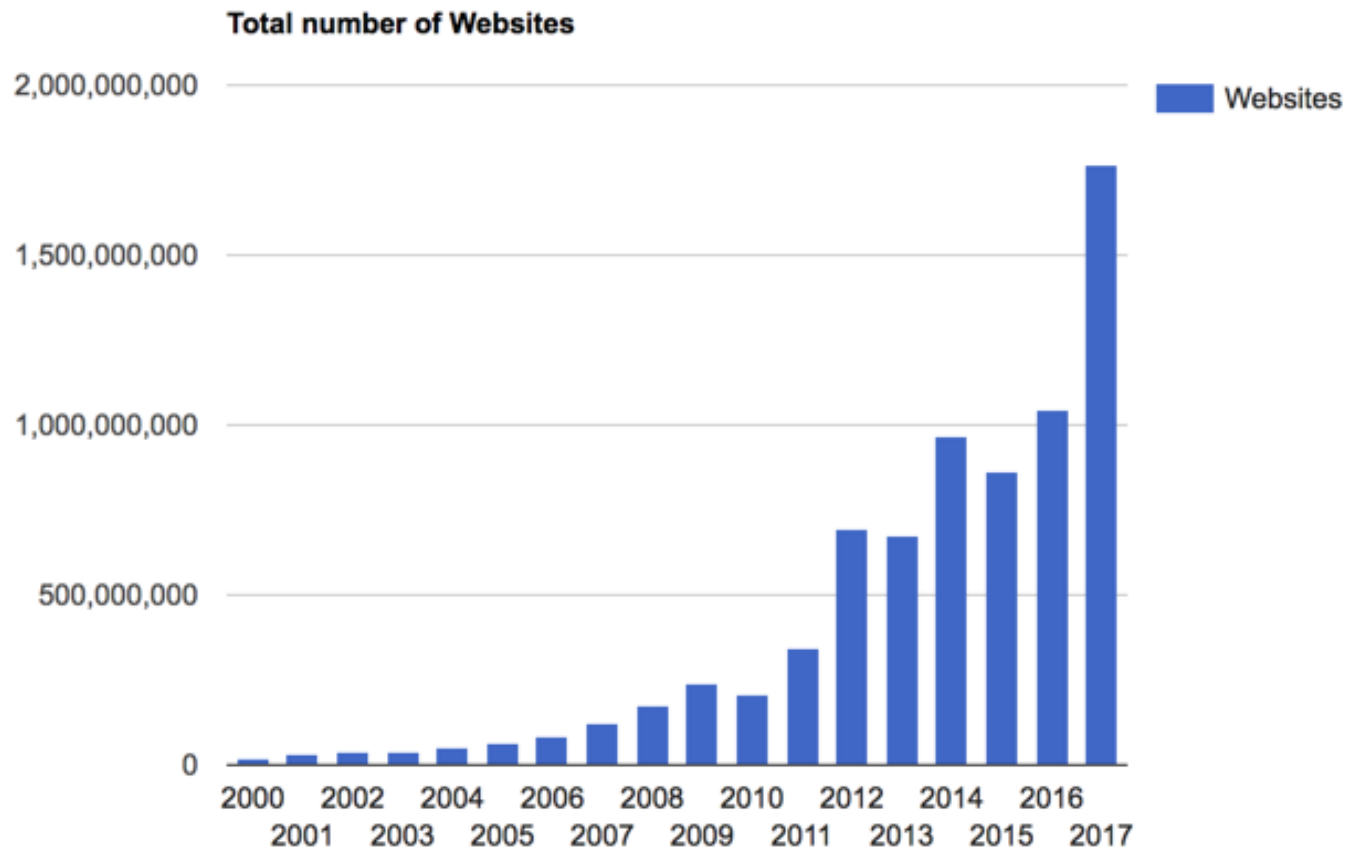
- Developed by DARPA in the 1960's
- Privatized in the mid-1980's
- Global network of computer networks

Introduction

- World Wide Web vs. Internet



Introduction



<http://www.internetlivestats.com>

Introduction

- Web Documents

HTML

Hypertext Markup Language

A set of markup tags used to define the content, layout and the formatting of a web document.

CSS

Cascading Style Sheets

A style sheet language used to describe the presentation semantics (that is, the look and formatting) of a document written in a markup language, like HTML.

HTML

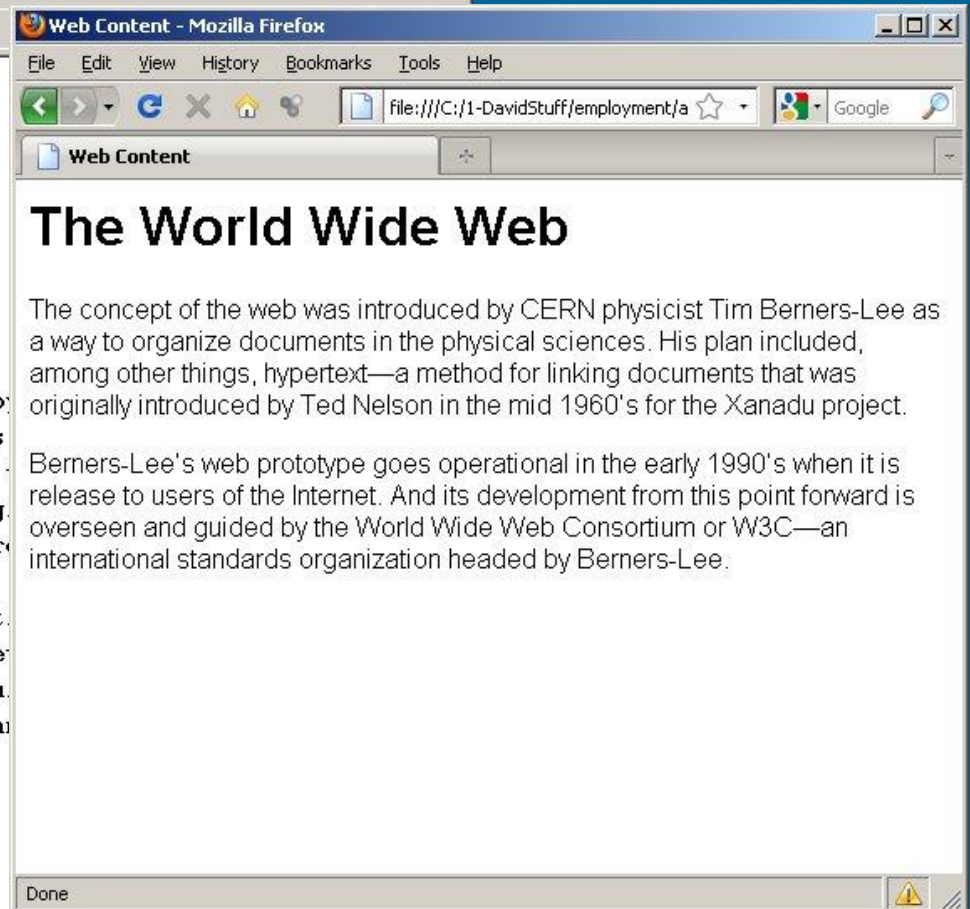
```
Notepad++ - C:\1-DavidStuff\employment\static_page.html
File Edit Search View Format Language Settings
[Icons]

static_page.html
1 <html>
2   <head>
3     <title>Web Content</title>
4   </head>
5
6   <body>
7
8     <h1>The World Wide Web</h1>
9
10    <p>The concept of the web was introduced by CERN physicist Tim
    Berners-Lee as a way to organize documents in the physical
    sciences. His plan included, among other things, hypertext—a
    method for linking documents that was originally introduced by Ted
    Nelson in the mid 1960's for the Xanadu project.</p>
11
12    <p>Berners-Lee's web prototype goes operational in the early 1990's
    when it is release to users of the Internet. And its development
    from this point forward is overseen and guided by the World Wide
    Web Consortium or W3C—an international standards organization
    headed by Berners-Lee.</p>
13
14  </body>
15 </html>
```

HTML



```
1 <html>
2   <head>
3     <title>Web Content</title>
4   </head>
5
6   <body>
7
8     <h1>The World Wide Web</h1>
9
10    <p>The concept of the web was introduced by
Berners-Lee as a way to organize documents
sciences. His plan included, among other
method for linking documents that was orig
Nelson in the mid 1960's for the Xanadu pr
11
12    <p>Berners-Lee's web prototype goes operat
when it is release to users of the Interne
from this point forward is overseen and gu
Web Consortium or W3C—an international sta
headed by Berners-Lee.</p>
13
14  </body>
15 </html>
```



CSS

```
1 |
2 | <html>
3 |   <head>
4 |     <title>Web Content</title>
5 |     <style type="text/css">
6 |       body
7 |       {
8 |         color:#888888; margin:20px; background-color:#333333;
9 |       }
10 |      h1
11 |      {
12 |        font-size:50px; color:#335599; padding:10px;
13 |      }
14 |      .content
15 |      {
16 |        font:arial; font-size:18px; background-color:#ffffff;
17 |        margin:20px; padding:20px;
18 |      }
19 |    </style>
20 |  </head>
21 |
22 | <body>
23 |   <div class="content">
24 |     <h1>The World Wide Web</h1>
25 |     <p>The concept of the web was introduced by CERN physicist Tim Berners-Lee as
26 |       a way to organize documents in the physical sciences. His plan included,
27 |       among other things, hypertext—a method for linking documents that was
28 |       originally introduced by Ted Nelson in the mid 1960's for the Xanadu project.
29 |     </p>
30 |     <p>Berners-Lee's web prototype goes operational in the early 1990's when it
31 |       is release to users of the Internet. And its development from this point
32 |       forward is overseen and guided by the World Wide Web Consortium or W3C—an
33 |       international standards organization headed by Berners-Lee.</p>
34 |   </div>
35 | </body>
36 | </html>
```

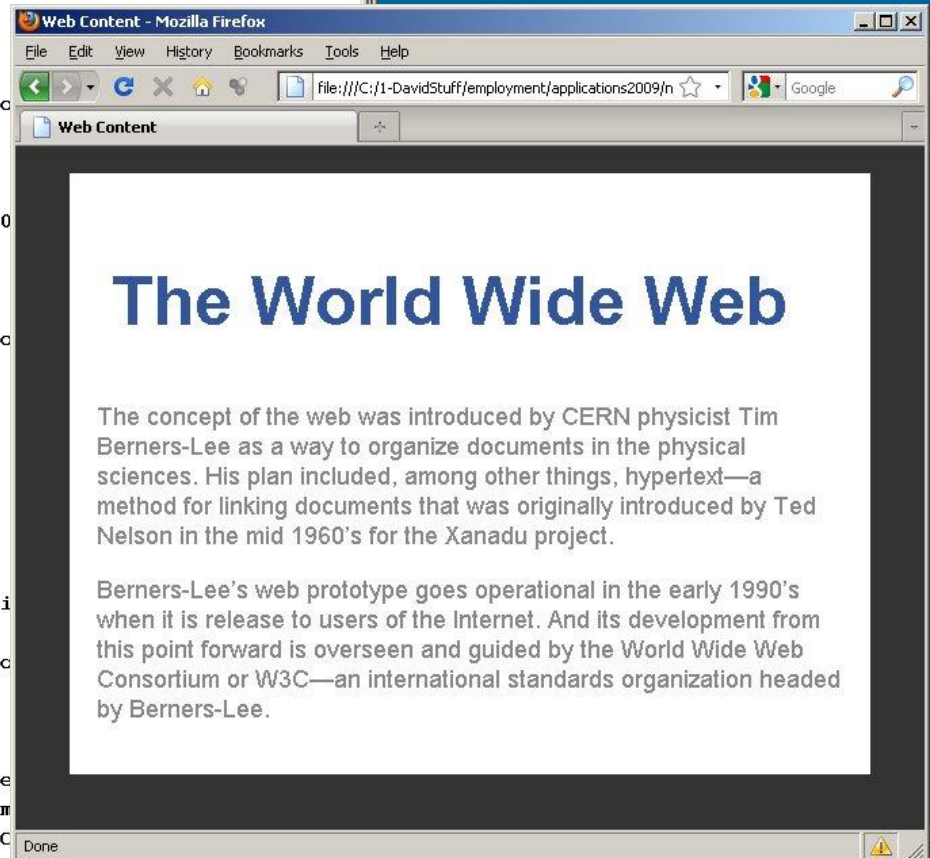
Notepad++ - C:\1-DavidStuff\employment\applications2009\northwestern_medill\static_page2.html

File Edit Search View Format Layout Window Plugins ?

static_page2.html

```
1 |
2 |<html>
3 |  <head>
4 |    <title>Web Content</title>
5 |    <style type="text/css">
6 |      body
7 |      {
8 |        color:#888888; margin:20px; background-color:#f0f0f0;
9 |      }
10 |    h1
11 |    {
12 |      font-size:50px; color:#335599; padding:10px;
13 |    }
14 |    .content
15 |    {
16 |      font:arial; font-size:18px; background-color:#f0f0f0;
17 |      margin:20px; padding:20px;
18 |    }
19 |  </style>
20 | </head>
21 |
22 |<body>
23 |<div class="content">
24 |  <h1>The World Wide Web</h1>
25 |  <p>The concept of the web was introduced by CERN physicist Tim
26 |    Berners-Lee as a way to organize documents in the physical
27 |    sciences. His plan included, among other things, hypertext—a
28 |    method for linking documents that was originally introduced by Ted
29 |    Nelson in the mid 1960's for the Xanadu project.
30 |  </p>
31 |  <p>Berners-Lee's web prototype goes operational in the early 1990's
32 |    when it is released to users of the Internet. And its development
33 |    from this point forward is overseen and guided by the World Wide
34 |    Web Consortium or W3C—an international standards organization
35 |    headed by Berners-Lee.
36 |  </p>
37 |</div>
38 |</body>
39 |</html>
```

CSS



Introduction

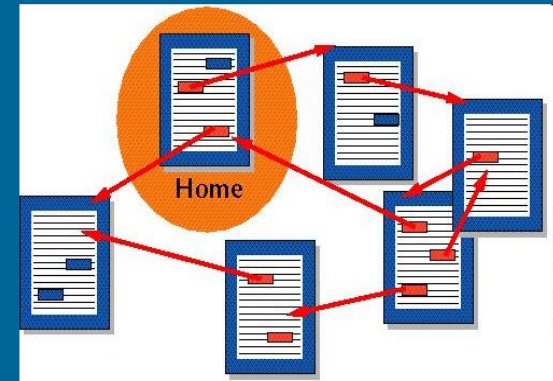
- HTML & CSS
 - Negative Characterization
 - Not a programming language like VisualBasic, C, C#, C++, Java, etc.
 - Not a WYSIWYG or page description language (word processors)
 - Positive Characterization
 - Markup Languages that are interpreted in the browser and control the content, structure and appearance of information

Introduction

- HTML & CSS
 - Hypertext
 - Invented by Ted Nelson (1960)
 - Text w/in a page that permits linking to other pages.
 - Interconnected information
 - Berners-Lee included this concept in his original design for Web



Ted Nelson



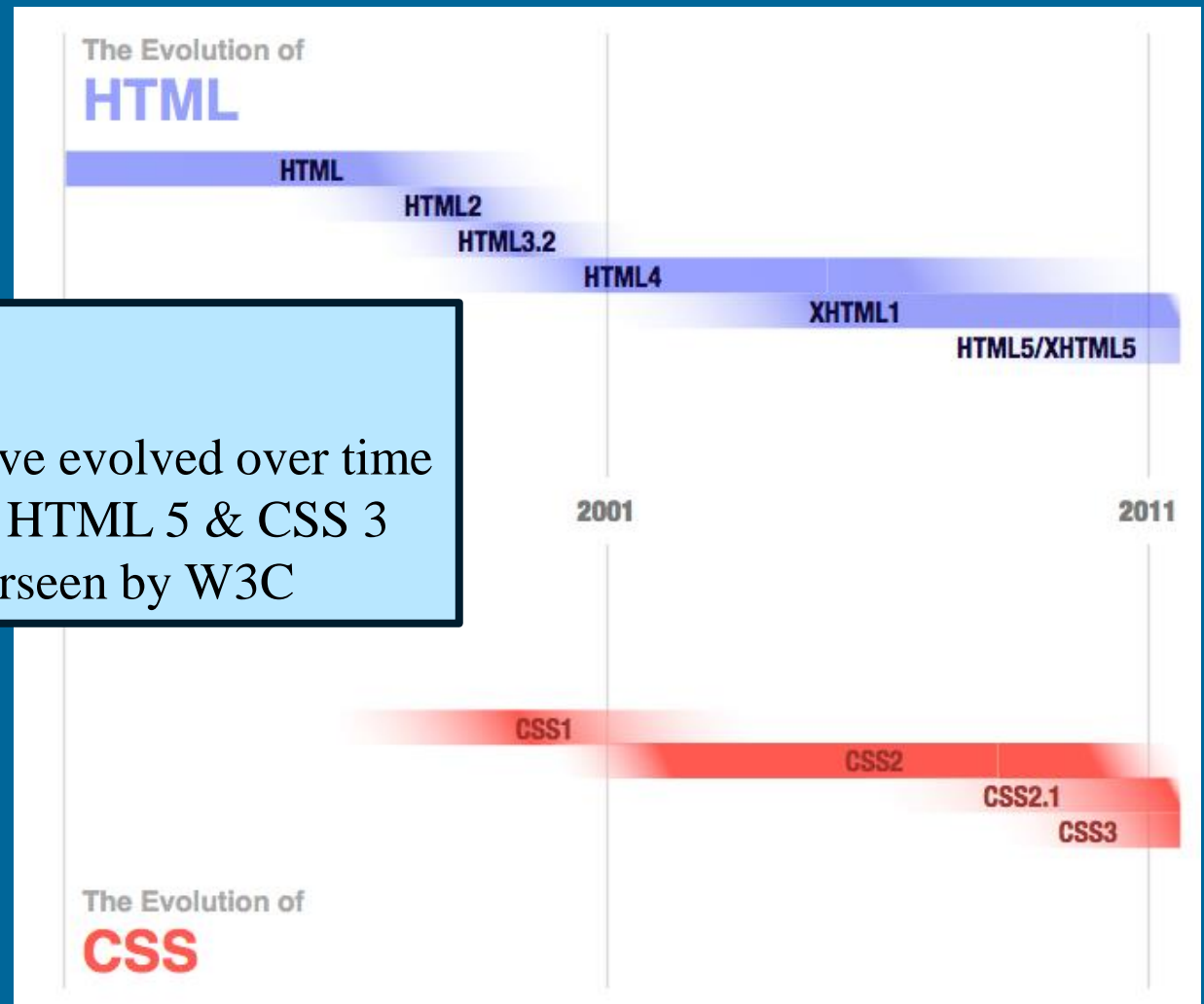
Introduction

- HTML & CSS
 - Open Standard / non-proprietary
 - Portable or platform independent
 - Runs on a number of different kinds of computers running a number of different operating systems
 - Not limited to one kind of computer platform but can be utilized across platforms
 - Consequently, the HTML/CSS you write on a Windows PC will work in iOS, MacOS or Linux

Introduction

Versions

- HTML & CSS have evolved over time
- Current Versions: HTML 5 & CSS 3
- Development overseen by W3C



Introduction



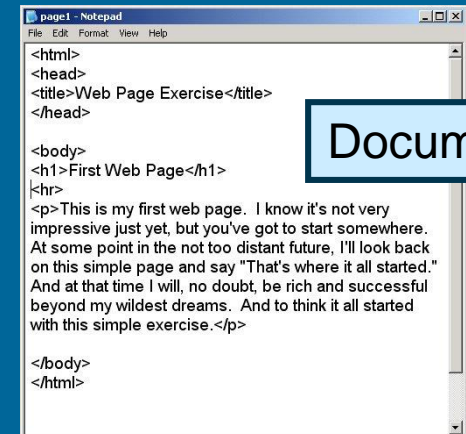
W3C Mission

The World Wide Web Consortium (W3C) is an international community where Member organizations, a full-time staff, and the public work together to develop Web standards. Led by Web inventor Tim Berners-Lee and CEO Jeffrey Jaffe, W3C's mission is to lead the Web to its full potential.

<http://www.w3.org>

Introduction

- Editor vs. Browser
 - HTML/CSS is written in a text editor
 - HTML/CSS is viewed in a Web Browser
- Document vs. Page
 - A *document* is what you create in the Editor
 - A *page* is what you see when a document is displayed in the Browser



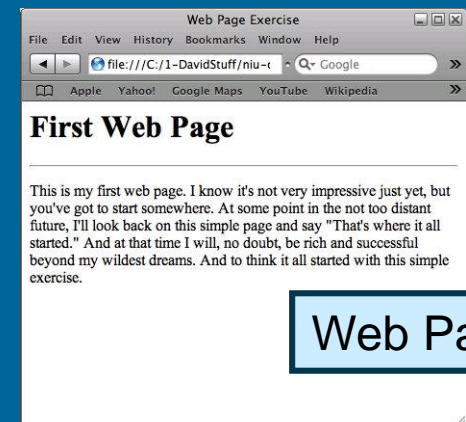
A screenshot of a Notepad window titled 'page1 - Notepad'. The window contains the following HTML code:

```
<html>
<head>
<title>Web Page Exercise</title>
</head>

<body>
<h1>First Web Page</h1>
<hr>
<p>This is my first web page. I know it's not very
impressive just yet, but you've got to start somewhere.
At some point in the not too distant future, I'll look back
on this simple page and say "That's where it all started."
And at that time I will, no doubt, be rich and successful
beyond my wildest dreams. And to think it all started
with this simple exercise.</p>

</body>
</html>
```

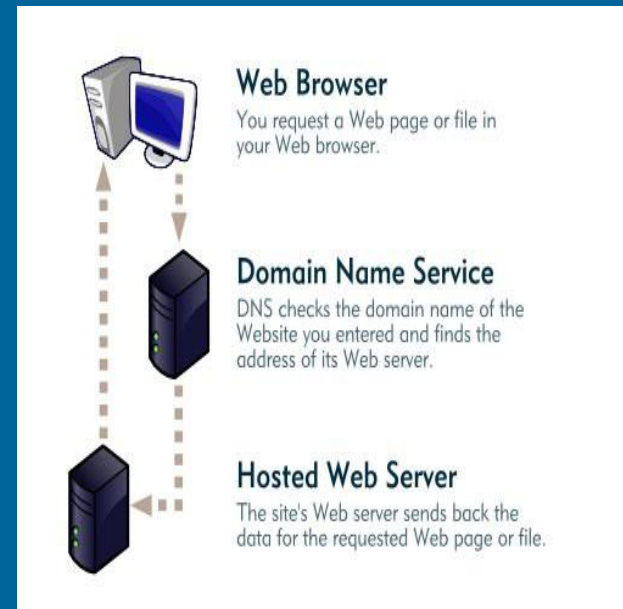
Document



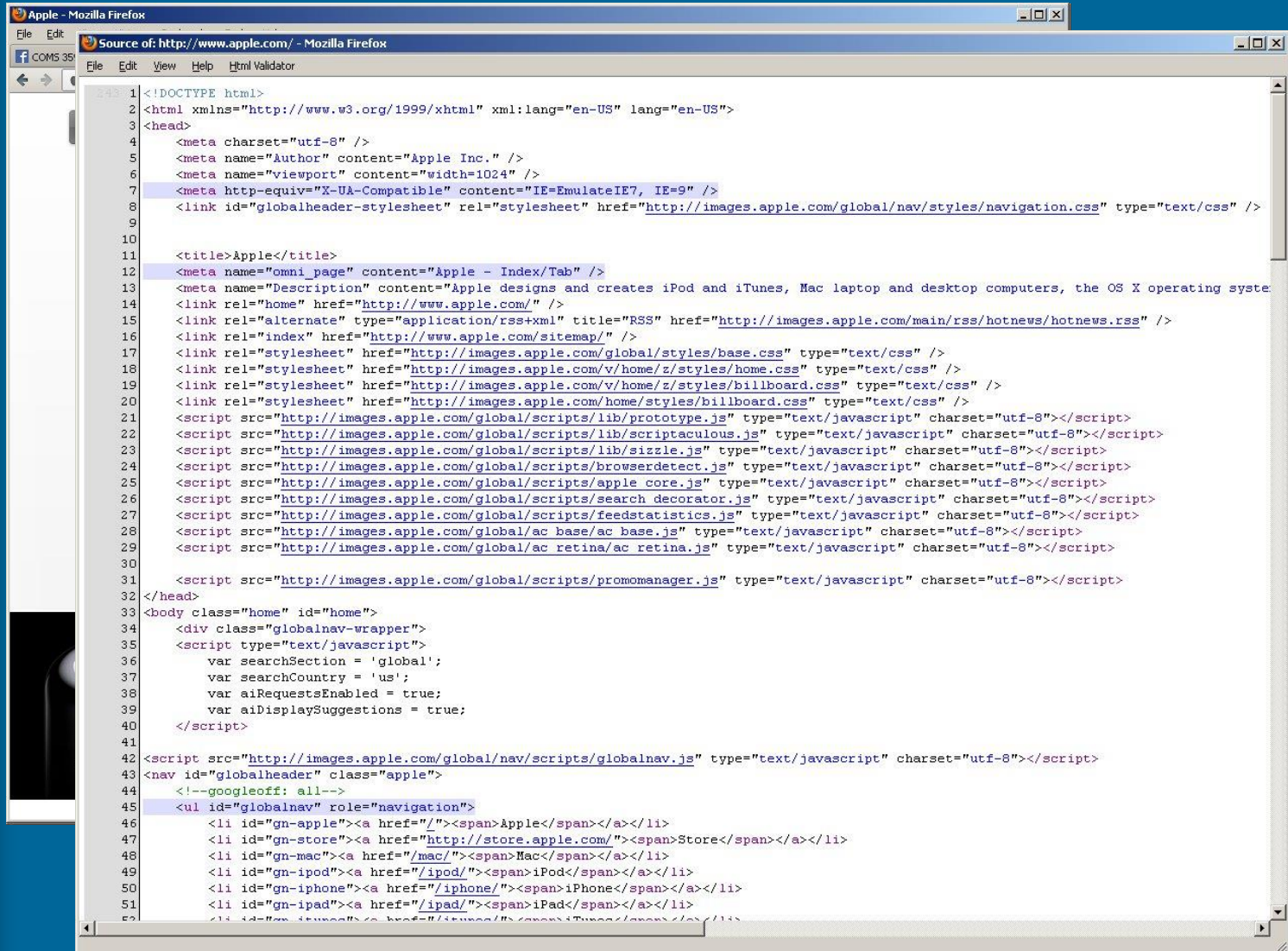
Web Page

Introduction

- Uniform Resource Locator
 - Address or location of a specific web resource
- Format of URLs
 - protocol://domain/path/filename
 - <http://www.niu.edu/info/index.html>
- URLs reference IP numbers
 - IP number: 136.34.98.01
 - Index maintained by DNS
 - Identify location of web page



• View Source



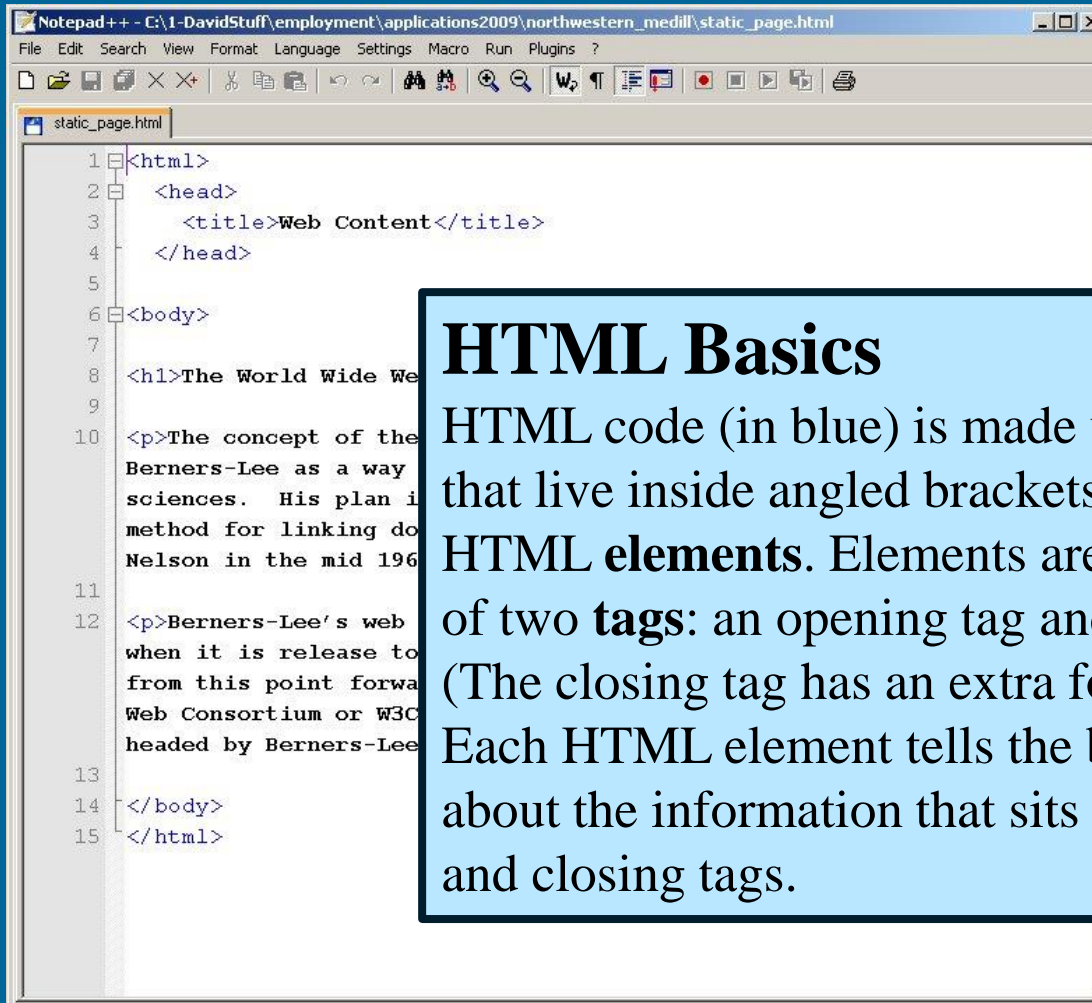
```
1 <!DOCTYPE html>
2 <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en-US" lang="en-US">
3 <head>
4   <meta charset="utf-8" />
5   <meta name="Author" content="Apple Inc." />
6   <meta name="viewport" content="width=1024" />
7   <meta http-equiv="X-UA-Compatible" content="IE=EmulateIE7, IE=9" />
8   <link id="globalheader-stylesheet" rel="stylesheet" href="http://images.apple.com/global/nav/styles/navigation.css" type="text/css" />
9
10  <title>Apple</title>
11  <meta name="omni_page" content="Apple - Index/Tab" />
12  <meta name="Description" content="Apple designs and creates iPod and iTunes, Mac laptop and desktop computers, the OS X operating system, and the iPhone and iPad." />
13  <link rel="home" href="http://www.apple.com/" />
14  <link rel="alternate" type="application/rss+xml" title="RSS" href="http://images.apple.com/main/rss/hotnews/hotnews.rss" />
15  <link rel="index" href="http://www.apple.com/sitemap/" />
16  <link rel="stylesheet" href="http://images.apple.com/global/styles/base.css" type="text/css" />
17  <link rel="stylesheet" href="http://images.apple.com/v/home/z/styles/home.css" type="text/css" />
18  <link rel="stylesheet" href="http://images.apple.com/v/home/z/styles/billboard.css" type="text/css" />
19  <link rel="stylesheet" href="http://images.apple.com/home/styles/billboard.css" type="text/css" />
20  <script src="http://images.apple.com/global/scripts/lib/prototype.js" type="text/javascript" charset="utf-8"></script>
21  <script src="http://images.apple.com/global/scripts/lib/scriptaculous.js" type="text/javascript" charset="utf-8"></script>
22  <script src="http://images.apple.com/global/scripts/lib/sizzle.js" type="text/javascript" charset="utf-8"></script>
23  <script src="http://images.apple.com/global/scripts/browserdetect.js" type="text/javascript" charset="utf-8"></script>
24  <script src="http://images.apple.com/global/scripts/apple_core.js" type="text/javascript" charset="utf-8"></script>
25  <script src="http://images.apple.com/global/scripts/search_decorator.js" type="text/javascript" charset="utf-8"></script>
26  <script src="http://images.apple.com/global/scripts/feedstatistics.js" type="text/javascript" charset="utf-8"></script>
27  <script src="http://images.apple.com/global/ac base/ac base.js" type="text/javascript" charset="utf-8"></script>
28  <script src="http://images.apple.com/global/ac retina/ac retina.js" type="text/javascript" charset="utf-8"></script>
29
30  <script src="http://images.apple.com/global/scripts/promomanager.js" type="text/javascript" charset="utf-8"></script>
31 </head>
32 <body class="home" id="home">
33   <div class="globalnav-wrapper">
34     <script type="text/javascript">
35       var searchSection = 'global';
36       var searchCountry = 'us';
37       var aiRequestsEnabled = true;
38       var aiDisplaySuggestions = true;
39     </script>
40
41     <script src="http://images.apple.com/global/nav/scripts/globalnav.js" type="text/javascript" charset="utf-8"></script>
42     <nav id="globalheader" class="apple">
43       <!--googleoff: all-->
44       <ul id="globalnav" role="navigation">
45         <li id="gn-apple"><a href="/"><span>Apple</span></a></li>
46         <li id="gn-store"><a href="http://store.apple.com/"><span>Store</span></a></li>
47         <li id="gn-mac"><a href="/mac/"><span>Mac</span></a></li>
48         <li id="gn-ipod"><a href="/ipod/"><span>iPod</span></a></li>
49         <li id="gn-iphone"><a href="/iphone/"><span>iPhone</span></a></li>
50         <li id="gn-ipad"><a href="/ipad/"><span>iPad</span></a></li>
51         <li id="gn-itunes"><a href="/itunes/"><span>iTunes</span></a></li>
```

Introduction

- Instructional Procedure
 - Begin with HTML
 - Learn to use HTML to markup page content and structure
 - Project One will be an HTML project
 - Begin CSS in October
 - Learn to use CSS to style HTML
 - Projects Two and Three will be HTML/CSS



Structure

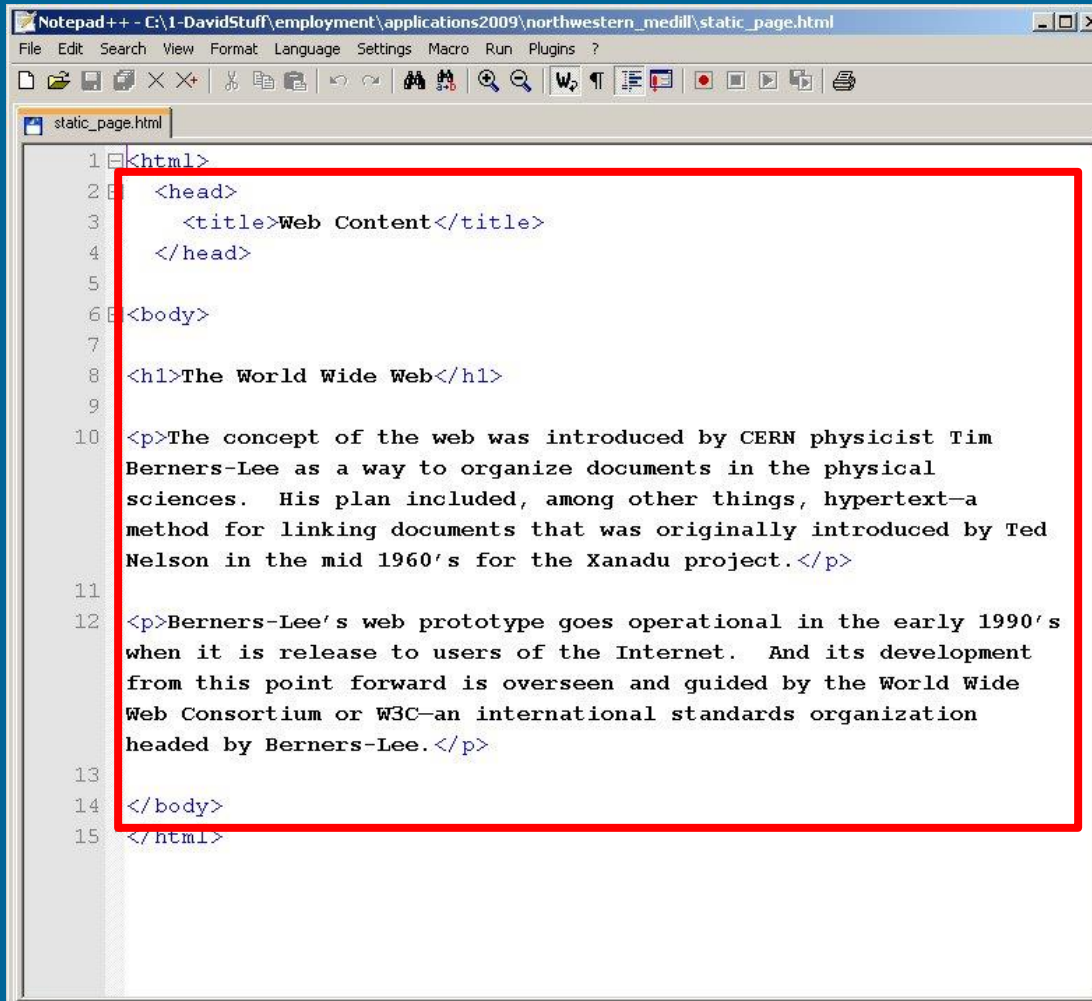


```
1 <html>
2   <head>
3     <title>Web Content</title>
4   </head>
5
6   <body>
7
8     <h1>The World Wide Web</h1>
9
10    <p>The concept of the World Wide Web was developed by
    Berners-Lee as a way of organizing information on the
    Internet. His plan is to create a standard method for linking
    documents together. The first implementation of this method was
    developed by Nelson in the mid 1990s.
11
12    <p>Berners-Lee's web browser was released in 1990. It was
    the first web browser to be released. From this point forward,
    the World Wide Web Consortium or W3C was headed by Berners-Lee.
13
14  </body>
15 </html>
```

HTML Basics

HTML code (in blue) is made up of characters that live inside angled brackets—these are called **HTML elements**. Elements are usually made up of two **tags**: an opening tag and a closing tag. (The closing tag has an extra forward slash in it.) Each HTML element tells the browser something about the information that sits between its opening and closing tags.

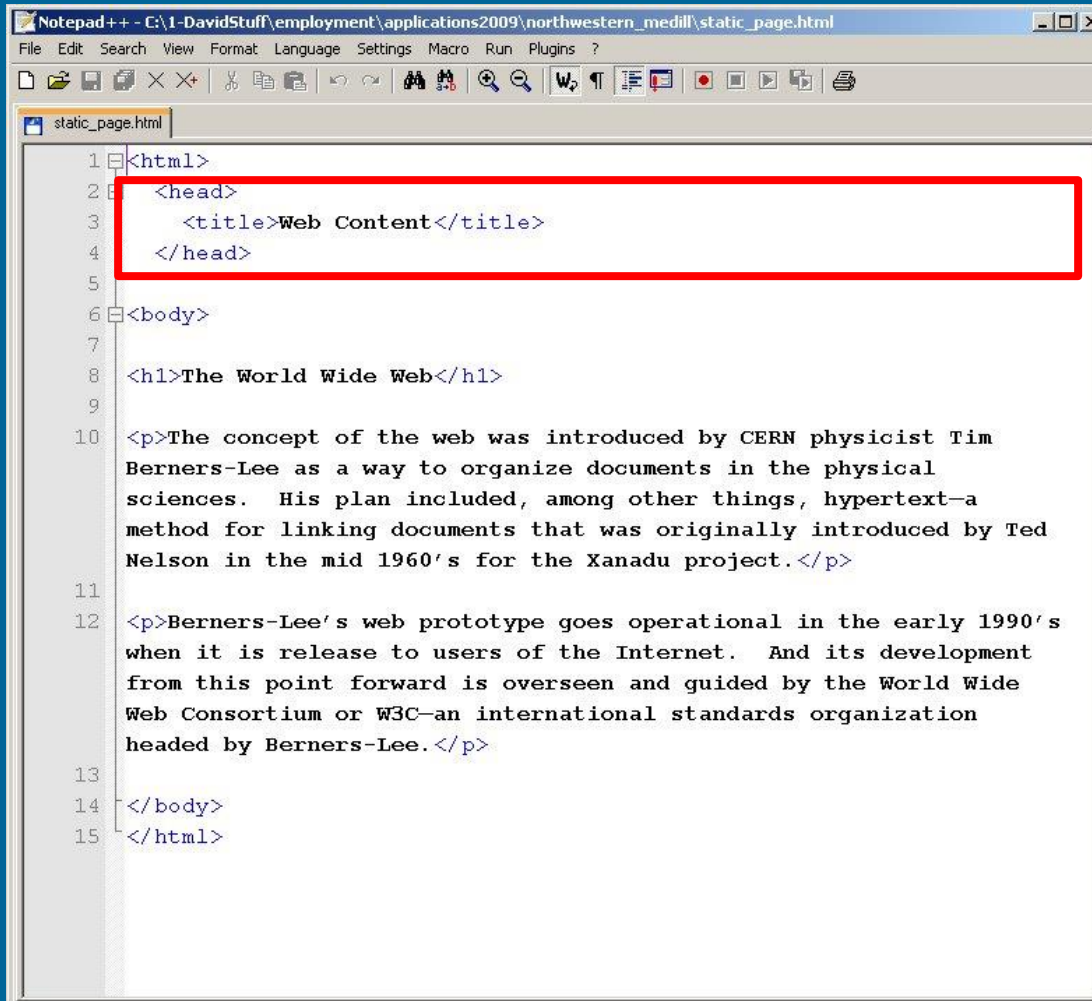
Structure



```
1 <html>
2   <head>
3     <title>Web Content</title>
4   </head>
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6   <body>
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    when it is release to users of the Internet. And its development
    from this point forward is overseen and guided by the World Wide
    Web Consortium or W3C—an international standards organization
    headed by Berners-Lee.</p>
13
14  </body>
15 </html>
```

<html> Element
Contains everything in
the HTML document

Structure



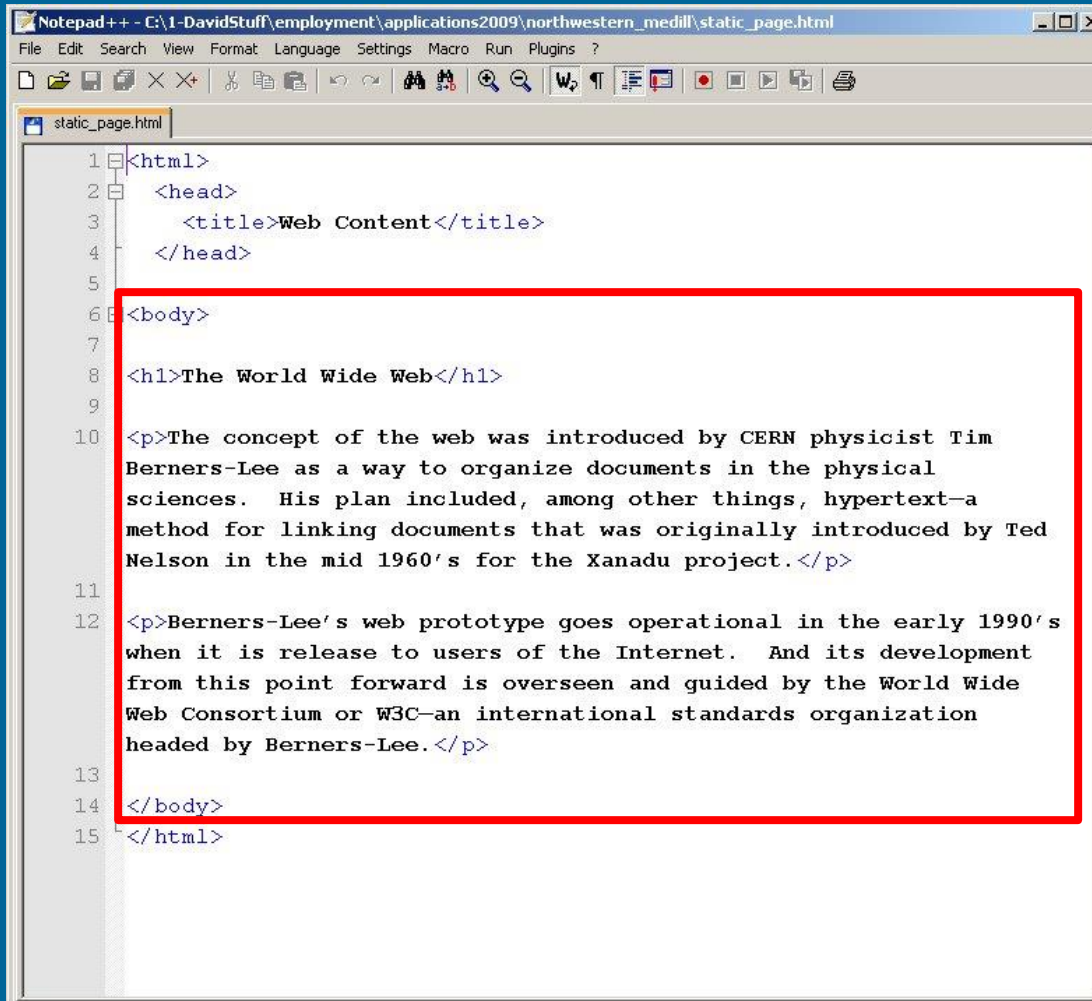
```
1 <html>
2 <head>
3 <title>Web Content</title>
4 </head>
5
6 <body>
7
8 <h1>The World Wide Web</h1>
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    from this point forward is overseen and guided by the World Wide
    Web Consortium or W3C—an international standards organization
    headed by Berners-Lee.</p>
13
14 </body>
15 </html>
```

<head> Element

Defines the document head and contains the <title> element

This information is NOT seen in the browser window

Structure

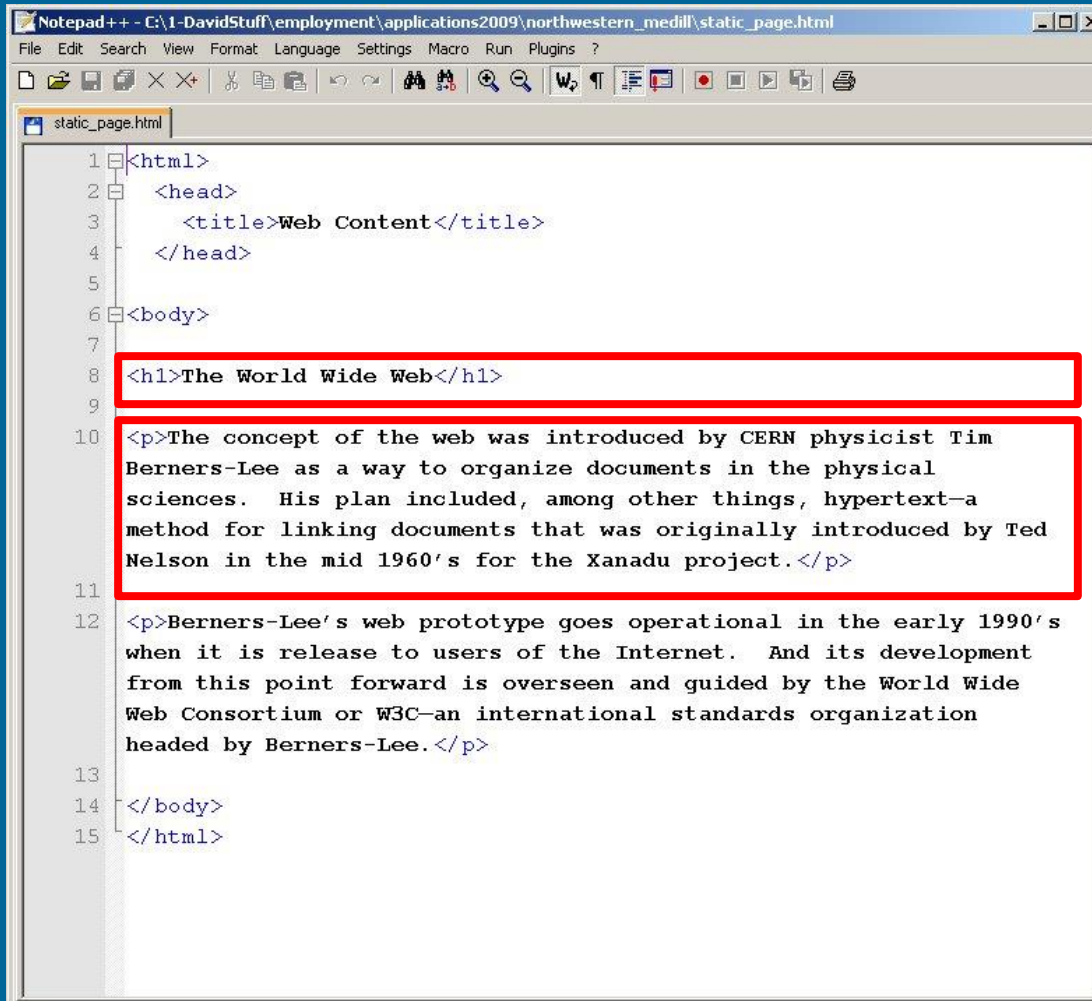


```
1 <html>
2 <head>
3   <title>Web Content</title>
4 </head>
5
6 <body>
7
8 <h1>The World Wide Web</h1>
9
10 <p>The concept of the web was introduced by CERN physicist Tim
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    when it is release to users of the Internet. And its development
    from this point forward is overseen and guided by the World Wide
    Web Consortium or W3C—an international standards organization
    headed by Berners-Lee.</p>
13
14 </body>
15 </html>
```

<body> Element

Contains everything
that is seen in the
browser window

Structure



```
1 <html>
2 <head>
3   <title>Web Content</title>
4 </head>
5
6 <body>
7
8   <h1>The World Wide Web</h1>
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    when it is release to users of the Internet. And its development
    from this point forward is overseen and guided by the World Wide
    Web Consortium or W3C—an international standards organization
    headed by Berners-Lee.</p>
13
14 </body>
15 </html>
```

<h1> Element
Defines a page heading

<p> Element
Defines a paragraph

Structure

- HTML Tags

`<p>`

Opening tag

`</p>`

Closing tag

Browsers do not display the HTML tags but interpret the tags to define the appearance of content situated between the open and closing tags.

Tags have predefined, default appearances that are rendered in the browser.

Tags are generally written in lower case (but upper case will still work in the browser).

Structure

- Attributes

`<p align="center">`

Attributes allow designers to code changes to the default appearance of a tag

Attributes are made up of a NAME and a VALUE. The value is associated with the name by an equals sign and contained by quotation marks.

The attribute name and value are placed only in the opening tag of an element.

Structure

- Evolution of Tags
 - New = tags recently introduced by the W3C; may not be compatible with the current browsers
 - Deprecated = tags that are on their way out; may still be used but should begin to replace them with new tags
 - Obsolete = tags that should no longer be used

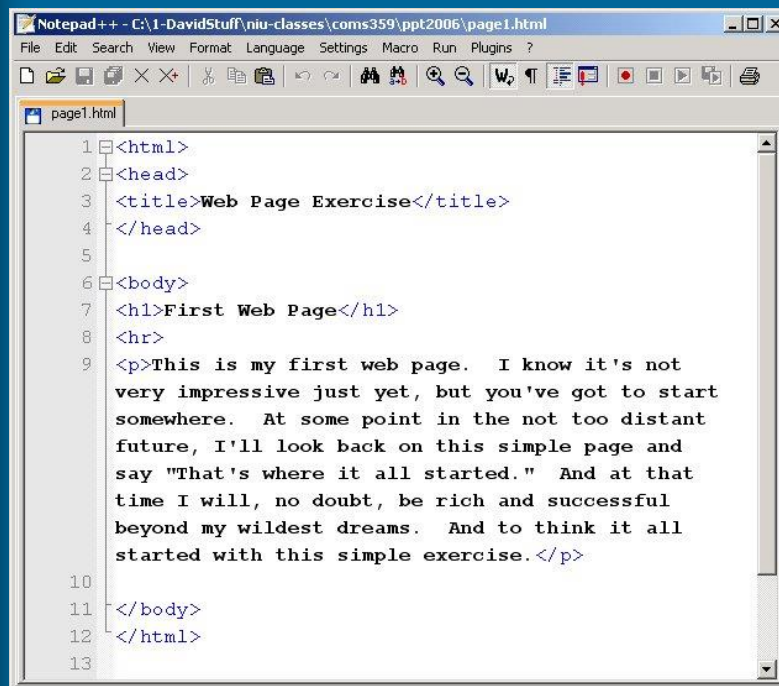
Writing HTML

- Writing vs. Viewing
 - HTML is written in a *Text Editor* and viewed with a *Web Browser*
 - Work with two windows and switch between them
 - Write HTML in your Text Editor
 - View the results in the Web Browser



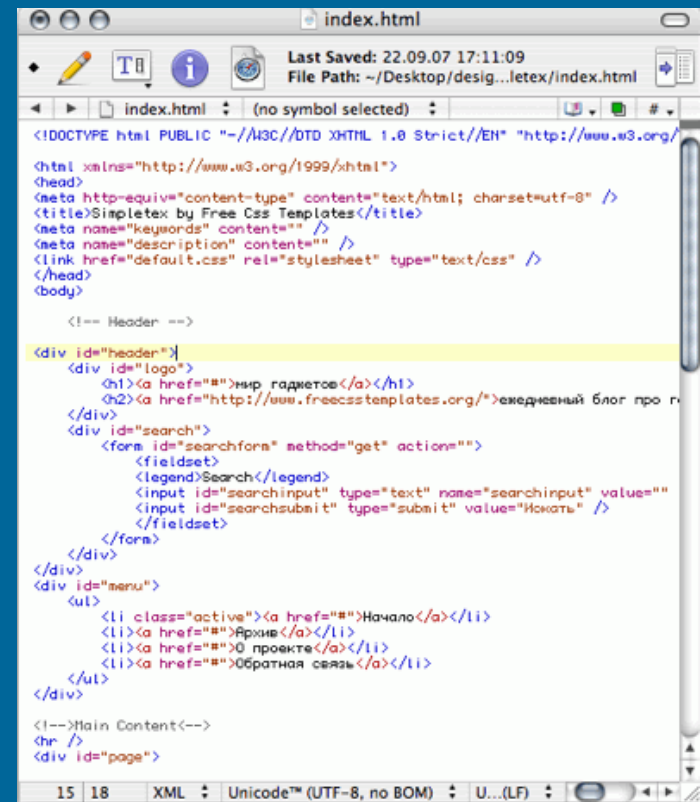
Writing HTML

- Text Editors



```
1 <html>
2 <head>
3   <title>Web Page Exercise</title>
4 </head>
5
6 <body>
7   <h1>First Web Page</h1>
8   <hr>
9   <p>This is my first web page. I know it's not
    very impressive just yet, but you've got to start
    somewhere. At some point in the not too distant
    future, I'll look back on this simple page and
    say "That's where it all started." And at that
    time I will, no doubt, be rich and successful
    beyond my wildest dreams. And to think it all
    started with this simple exercise.</p>
10
11 </body>
12 </html>
13
```

NotePad++



```
index.html
Last Saved: 22.09.07 17:11:09
File Path: ~/Desktop/desig.../index.html

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="content-type" content="text/html; charset=utf-8" />
<title>Simpletex by Free Css Templates</title>
<meta name="keywords" content="" />
<meta name="description" content="" />
<link href="default.css" rel="stylesheet" type="text/css" />
</head>
<body>

<!-- Header -->
<div id="header">
<div id="logo">
<h1><a href="#">нпр радкетов</a></h1>
<h2><a href="http://www.freecsstemplates.org/">ежедневный блог про н
</div>
<div id="search">
<form id="searchform" method="get" action="">
<fieldset>
<legend>Search</legend>
<input id="searchinput" type="text" name="searchinput" value=""
<input id="searchsubmit" type="submit" value="Искать" />
</fieldset>
</form>
</div>
<div id="menu">
<ul>
<li class="active"><a href="#">Начало</a></li>
<li><a href="#">Решие</a></li>
<li><a href="#">О проекте</a></li>
<li><a href="#">Обратная связь</a></li>
</ul>
</div>

<!-- Main Content -->
<hr />
<div id="page">
```

Text Wrangler

Writing HTML

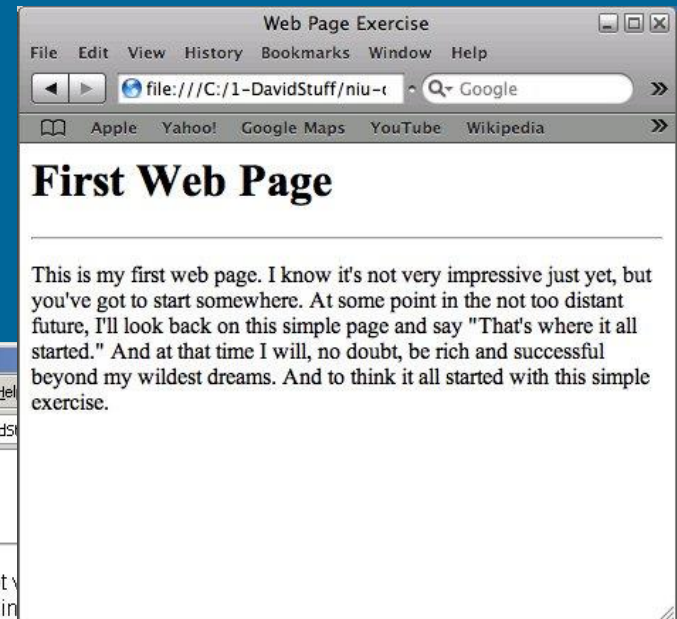
- Browsers



MS-IE



Firefox



Safari

Writing HTML

- Process
 - Write document in text editor
 - Save document with an .html file extension
 - Toggle (Alt-Tab) to Web Browser
 - Open file in Web Browser to view the page
 - Go back to Text Editor to make changes

Writing HTML

1. <html>

- Identifies the document
- Attributes
 - dir = ltr or rtl
 - lang = abbreviations ISO 639
 - version - now deprecated
- First and last tag on the page

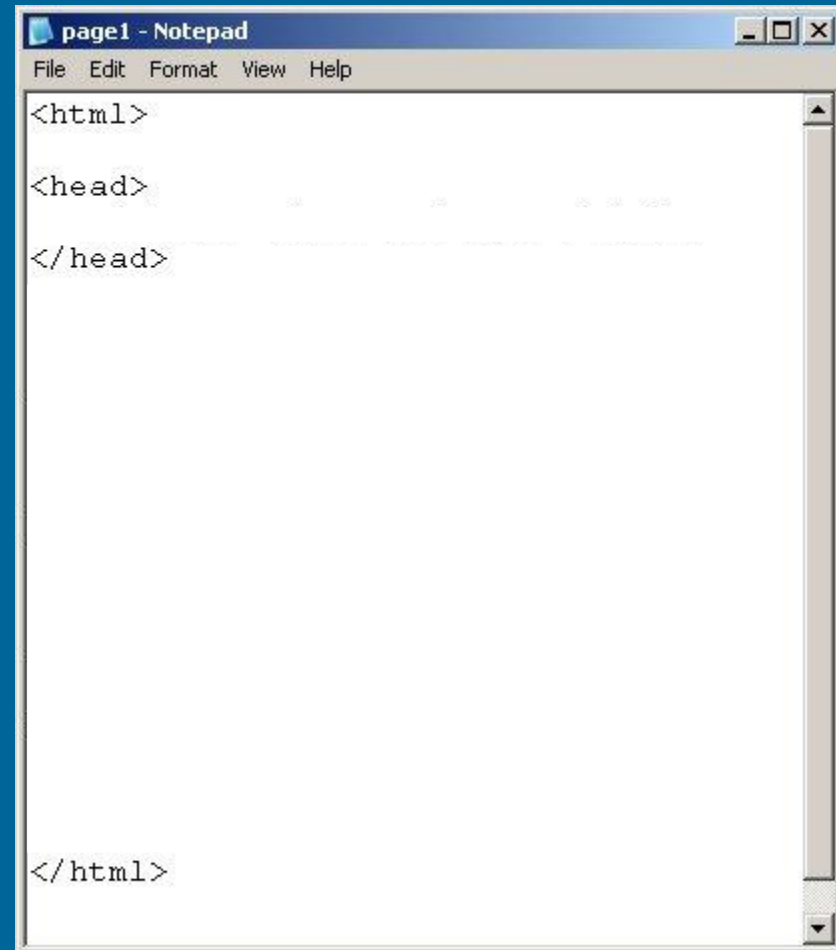


Writing HTML

2. <head>

- Attributes – dir & lang,
- Contains the other tags that make up the header
- Head must contain the <title> but can also have a number of other tags:

<base>	<nextid>
<basefont>	<style>
<isindex>	<script>
<link>	<meta>

A screenshot of a Notepad window titled "page1 - Notepad". The window has a menu bar with "File", "Edit", "Format", "View", and "Help". The text area contains the following HTML code:

```
<html>

<head>
    <title>
</head>

</html>
```

Writing HTML

3. <title>

- Attributes - dir & lang
- Situated in <head> container
- Identifies the title of the page
- Title is contained between the <title> </title> tags
- Title is not displayed on the page. It is displayed in ID bar and used for
 - Bookmarks/Favorites
 - History List



```
<html>

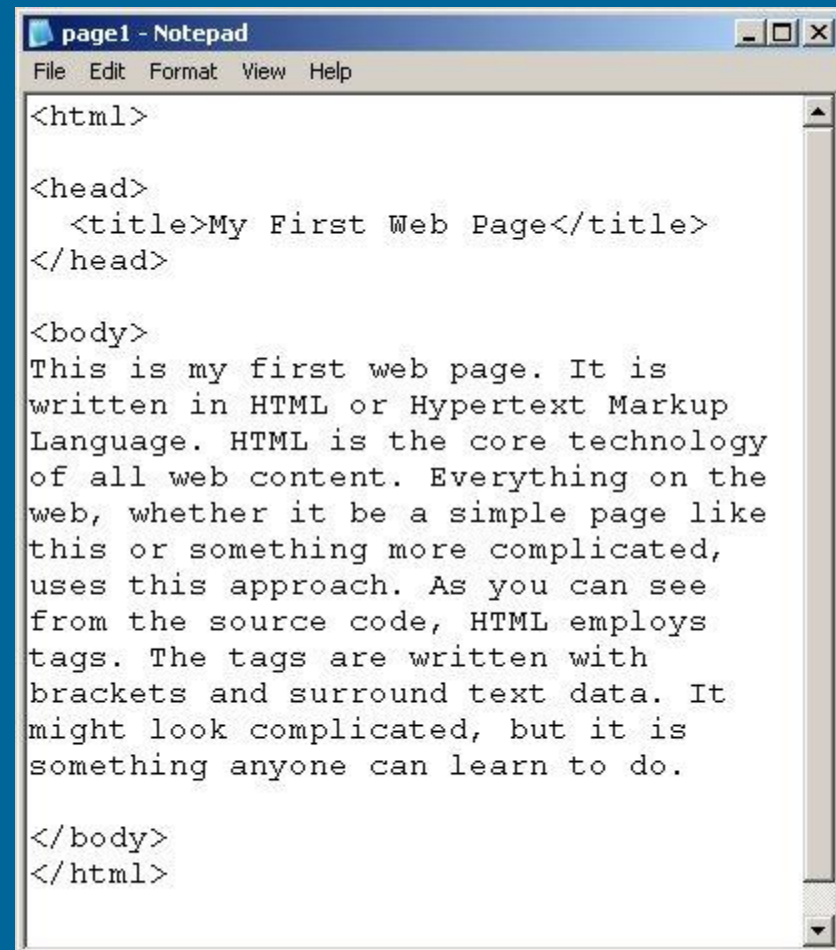
<head>
  <title>My First Web Page</title>
</head>

</html>
```

Writing HTML

4. <body>

- Several attributes
 - bgcolor
 - background
 - text
 - link
- The <body> contains the Content of the web page



```
page1 - Notepad
File Edit Format View Help

<html>

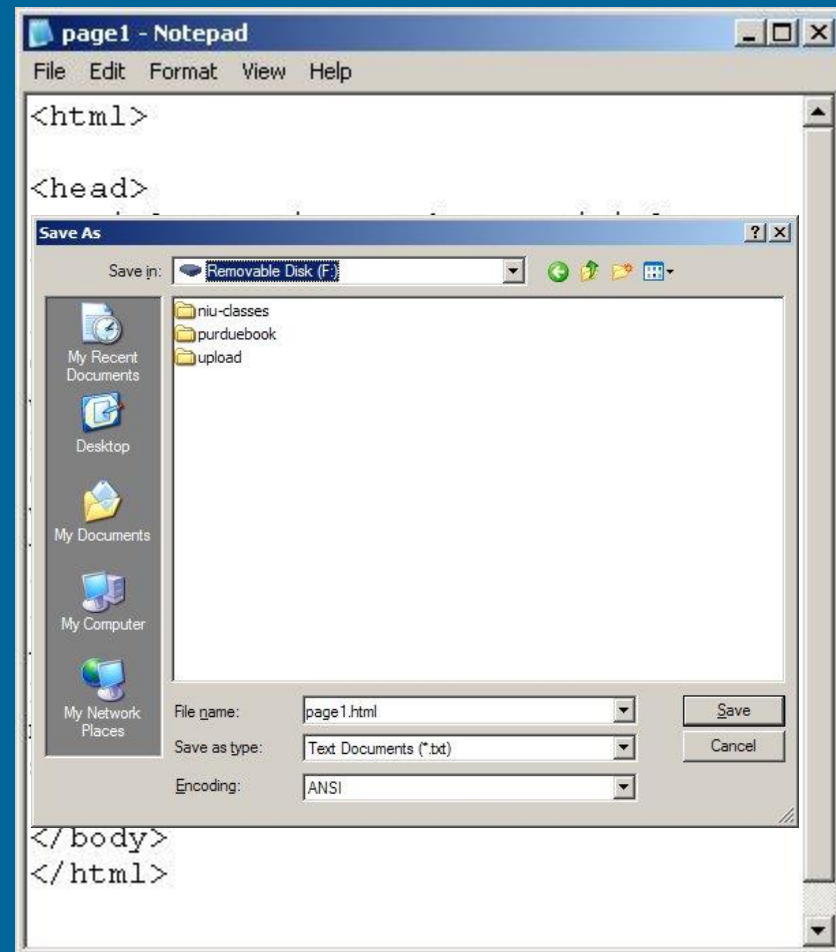
<head>
  <title>My First Web Page</title>
</head>

<body>
This is my first web page. It is
written in HTML or Hypertext Markup
Language. HTML is the core technology
of all web content. Everything on the
web, whether it be a simple page like
this or something more complicated,
uses this approach. As you can see
from the source code, HTML employs
tags. The tags are written with
brackets and surround text data. It
might look complicated, but it is
something anyone can learn to do.

</body>
</html>
```

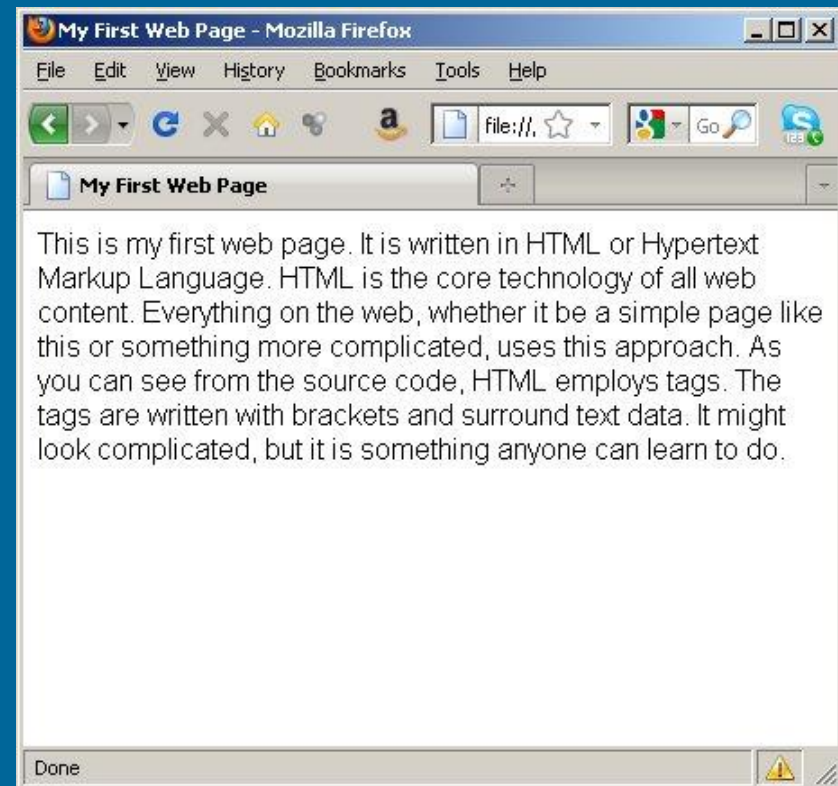
Writing HTML

- Viewing the first page
 - 1) Save the document
 - File/Save As
 - Save as Type: Text Document
 - Name: page1.html
 - Drive: removable media



Writing HTML

- Viewing the first page
 - 2) Launch the file in the Web Browser



page1.html

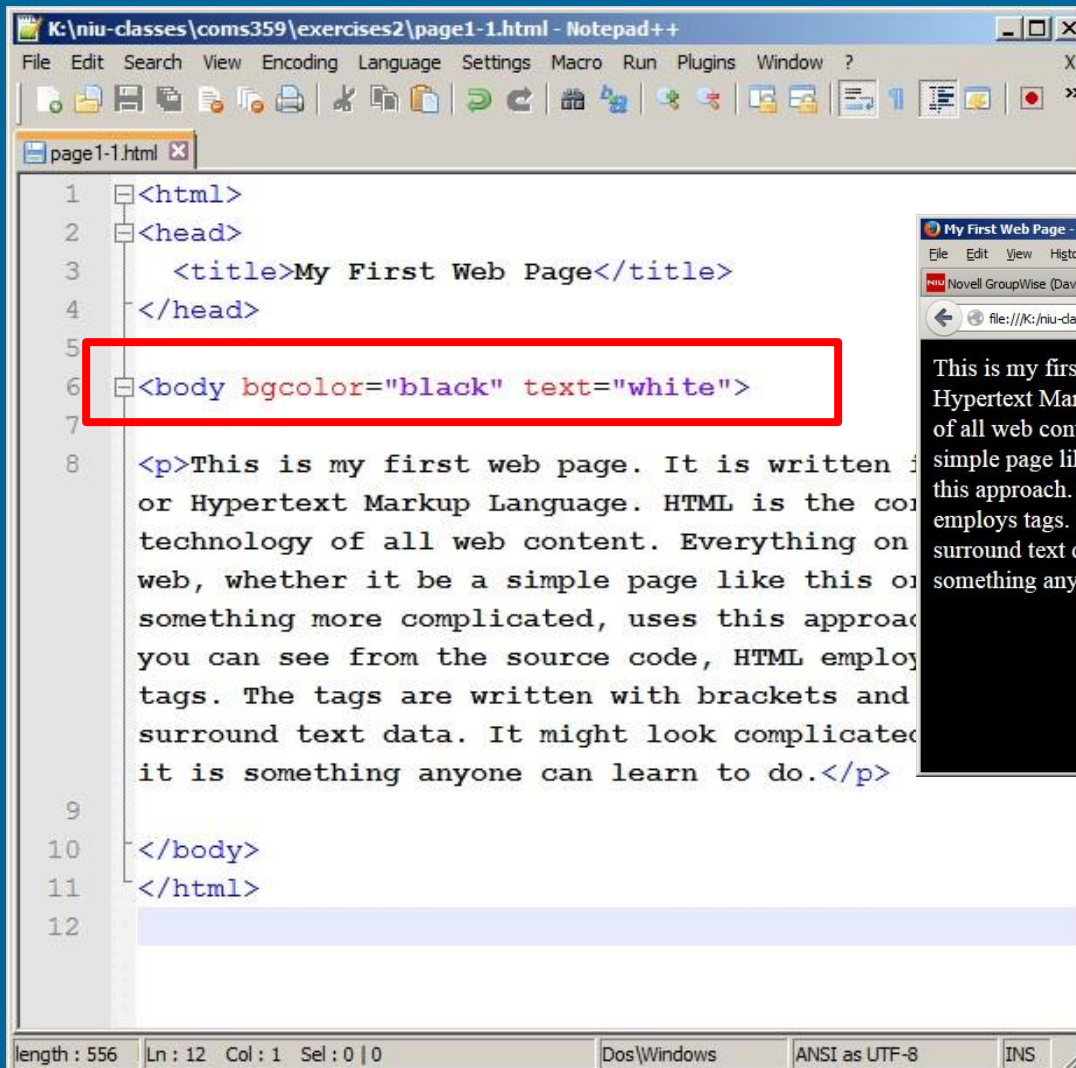
Writing HTML

- Attributes of <body>
 - bgcolor
 - Alters the background color of the page
 - Default value = white
 - text
 - Alters the color of the text on the page
 - Default value = black

Writing HTML

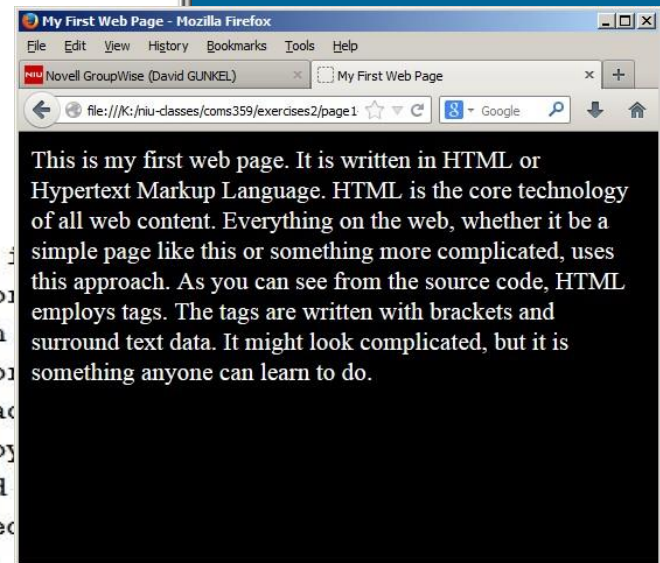
- Designating values for color (3 methods)
 - Color Names
 - 147 predefined color names recognized by browsers
 - i.e. white, black, green, blue...
 - RGB values (only works with CSS)
 - Indicate the intensity of each primary color using integers
 - 24 bit color; 16+ million different possibilities
 - i.e. `rgb(100,256,0)`
 - Hexadecimal Code
 - Indicate the intensity of each primary color using hex numbers
 - 24 bit color; 16+ million different possibilities
 - i.e. `#ff9a07`

Writing HTML

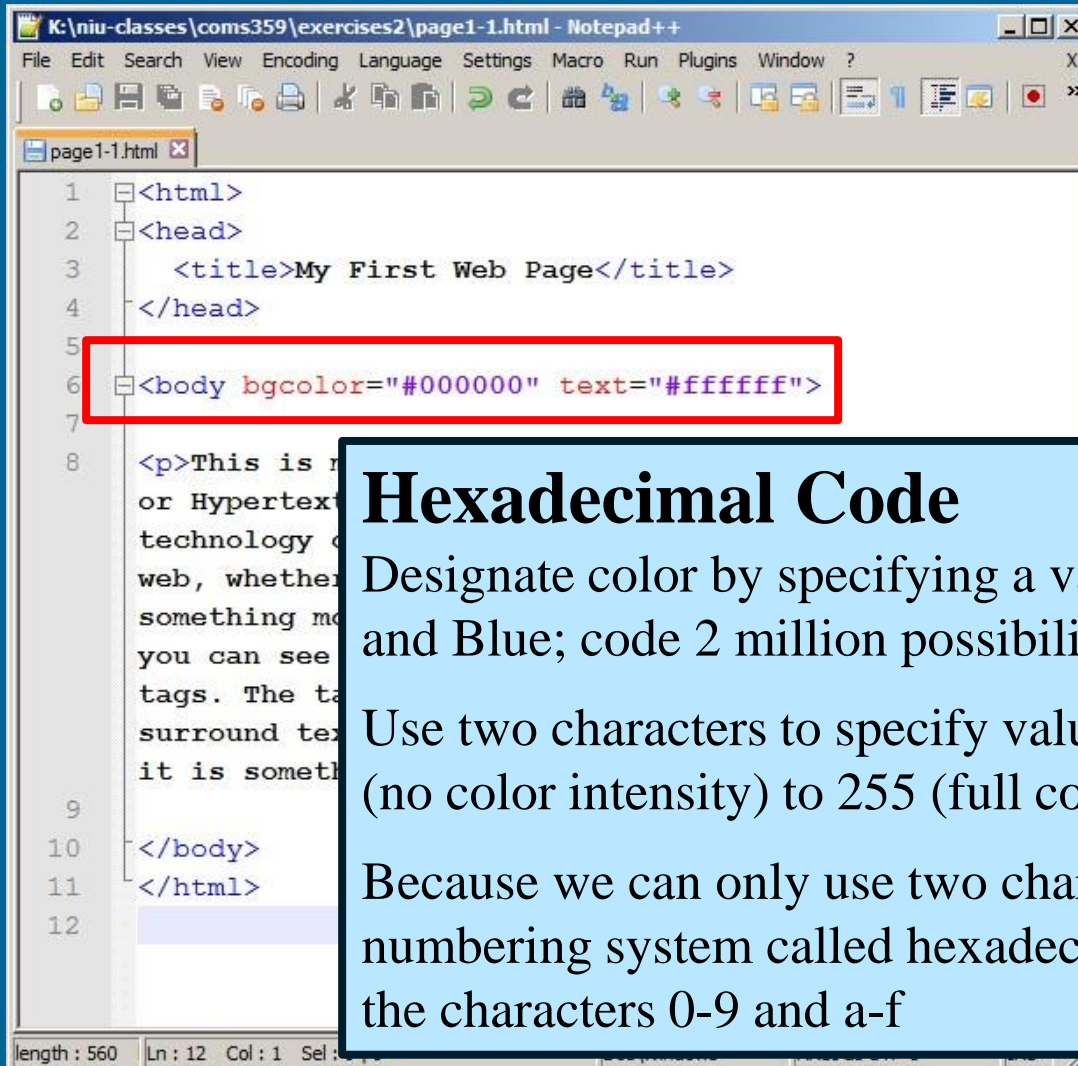


```
1 <html>
2 <head>
3   <title>My First Web Page</title>
4 </head>
5
6 <body bgcolor="black" text="white">
7
8   <p>This is my first web page. It is written in
9   or Hypertext Markup Language. HTML is the core
10  technology of all web content. Everything on
11  web, whether it be a simple page like this or
12  something more complicated, uses this approach
13  you can see from the source code, HTML employs
14  tags. The tags are written with brackets and
15  surround text data. It might look complicated
16  it is something anyone can learn to do.</p>
17
18 </body>
19 </html>
```

length : 556 Ln : 12 Col : 1 Sel : 0 | 0 Dos\Windows ANSI as UTF-8 INS




Writing HTML



```
1 <html>
2 <head>
3   <title>My First Web Page</title>
4 </head>
5
6 <body bgcolor="#000000" text="#ffffff">
7
8   <p>This is a simple web page created using HTML, a
9   or Hypertext Markup Language, a computer
10  technology that allows you to create web pages
11  web, whether you are using a web browser or
12  something more powerful like a web server.
13  you can see the code for this page in the
14  tags. The tags are written in HTML and
15  surround text and images. For example,
16  it is something like this:
17
18  <h1>Hello World</h1>
19
20  </body>
21 </html>
```

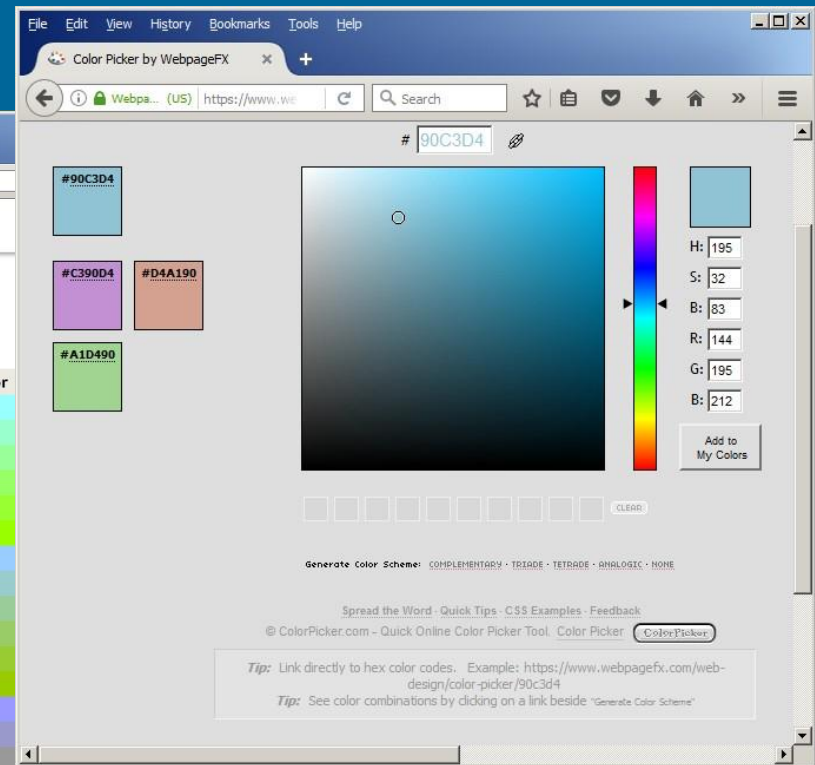
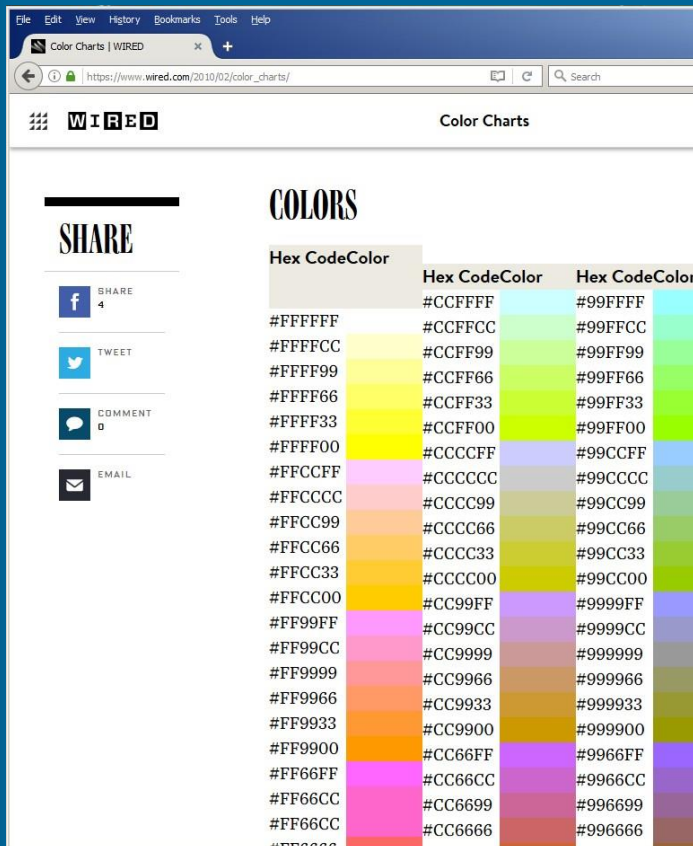
Hexadecimal Code

Designate color by specifying a value for Red, Green and Blue; code 2 million possibilities 

Use two characters to specify values ranging from 0 (no color intensity) to 255 (full color intensity)

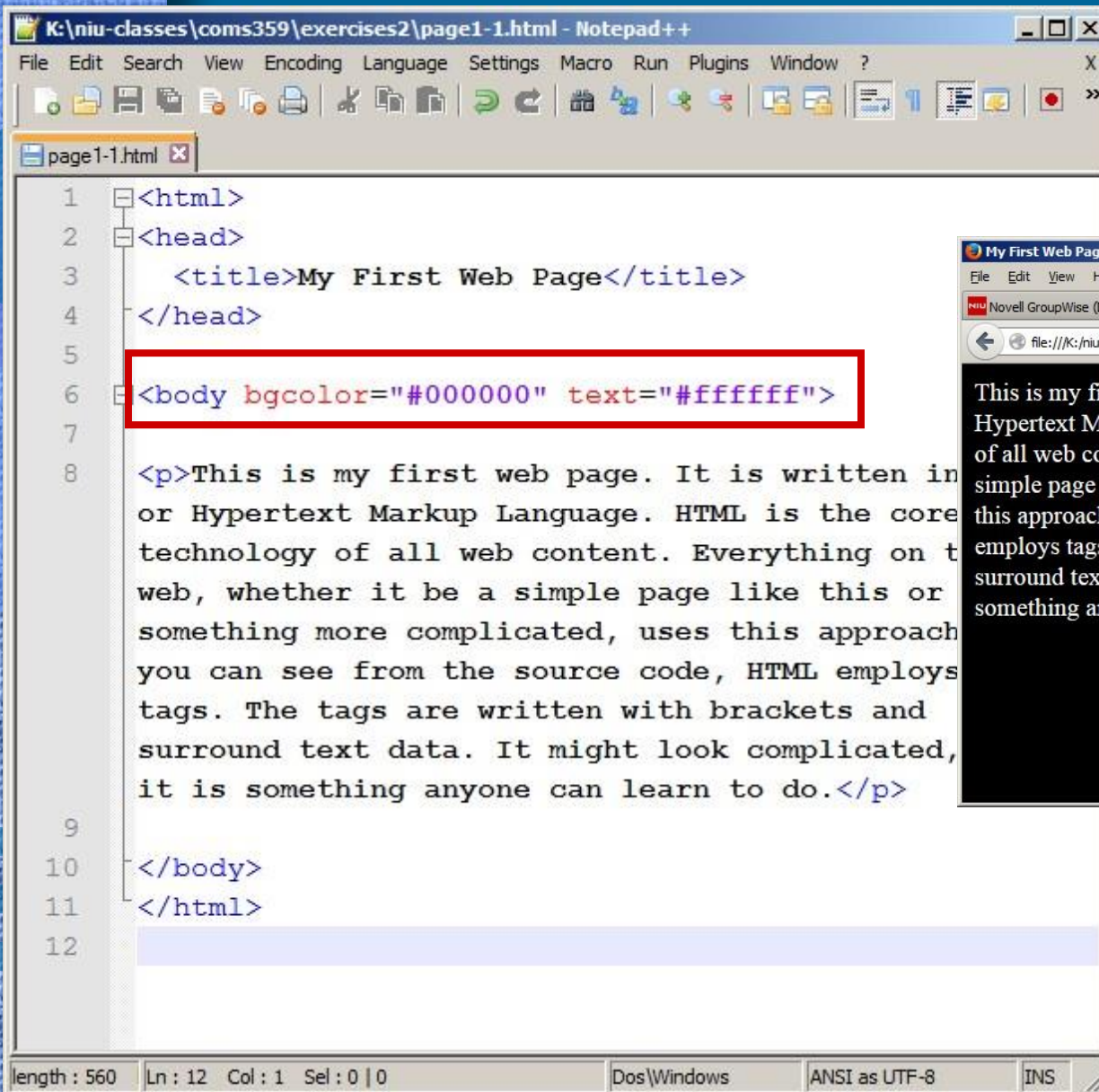
Because we can only use two characters, use a base 16 numbering system called hexadecimal numbering; use the characters 0-9 and a-f

Writing HTML



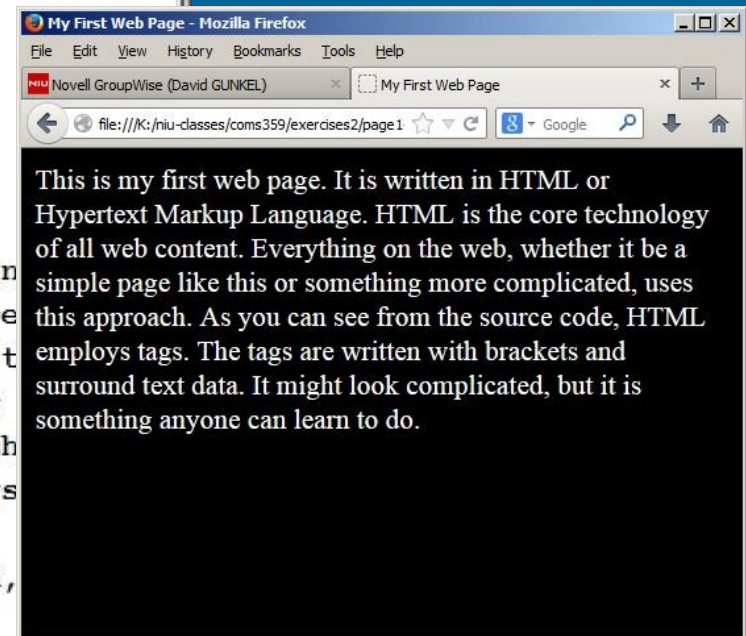
<http://colorpicker.com>

https://www.wired.com/2010/02/color_charts/



```
1 <html>
2 <head>
3   <title>My First Web Page</title>
4 </head>
5
6 <body bgcolor="#000000" text="#ffffff">
7
8   <p>This is my first web page. It is written in
   or Hypertext Markup Language. HTML is the core
   technology of all web content. Everything on t
   web, whether it be a simple page like this or
   something more complicated, uses this approach
   you can see from the source code, HTML employs
   tags. The tags are written with brackets and
   surround text data. It might look complicated,
   it is something anyone can learn to do.</p>
9
10 </body>
11 </html>
12
```

length : 560 Ln : 12 Col : 1 Sel : 0 | 0 Dos\Windows ANSI as UTF-8 INS



Modify
page1.html

* Try a number of different combinations

Preview

- Texts & Lists
 - Duckett - ch. 2 (41-60)
 - Duckett - ch. 3 (62-72)

Final Note

- “Practice makes Perfect”
 - Review class exercises
 - Play with HTML
- Text Editors
 - Notepad++ or Text Wrangler
 - Notepad for Windows
 - Do not use MS-Word or other word processing programs