

Comm 244

Week 3

Navigation

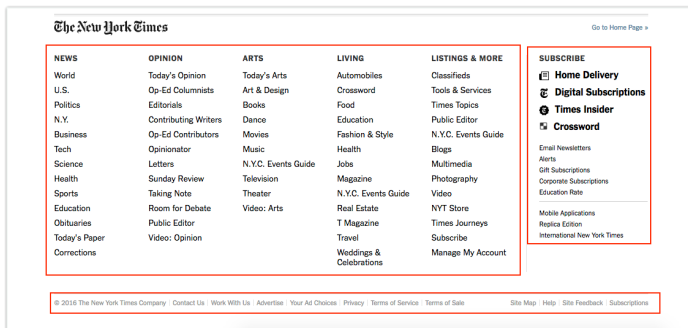
Navigation

Websites need a formalized system of links to allow users to navigate the site

Navigation

Many larger websites have multiple forms of navigation

For example, look at the New York Times website



Adding Navigation

Navigation elements are really just **lists** of links

Adding Navigation

Navigation elements are really just **lists** of links

All of the pages in our Recipe Book need a basic navigation structure

The Recipe Book website has 5 main pages:

- Home (index.html)
- Recipes
- Tips
- Contributors
- About

Adding Navigation

The 5 pages will form the basis of our navigation

- Home (index.html)
- Recipes
- Tips
- Contributors
- About

Eventually we will also use a logo to link to the home page, but for now, just link the title of the website.

HTML Validation

What is a Validator

A program that looks at your HTML...

What is a Validator

A program that looks at your HTML...
and then tells you if it is **valid**

Why You Care

HTML is designed to be forgiving of errors.

Not all browsers interpret errors the same.

The only way to ensure that your site will look the *closest* to the same in all browsers is to use valid HTML.

Why You Care

A validator will tell you when something in your code is wrong, and help you write better code.

Writing good code now will help ensure that your site will still work in the future.

World Wide Web Consortium (W3C)

The W3C is an international group that develops web standards

They helped develop specifications for HTML, XHTML, CSS (among others)

Validators and Doctypes

Remember the HTML <!DOCTYPE>
Declaration we talked about?



```
1 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"~  
2 > "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">~  
3 ~  
4 <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">~  
5 <head>~  
6 > <meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>~  
7 ~  
8 <title>XHTML Strict Template</title>~  
9 ~  
10 </head>~  
11 ~  
12 <body>~  
13 ~  
14 ~
```

Validators and Doctypes

This tells the Validator how it should
test the document



```
1 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"~  
2 > "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">~  
3 ~  
4 <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">~  
5 <head>~  
6 > <meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>~  
7 ~  
8 <title>XHTML Strict Template</title>~  
9 ~  
10 </head>~  
11 ~  
12 <body>~  
13 ~  
14 ~
```

Validators and Doctypes

This document will be XHTML1 Strict



```
1 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"~  
2 > "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">~  
3 ~  
4 <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">~  
5 <head>~  
6 > <meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>~  
7 ~  
8 <title>XHTML Strict Template</title>~  
9 ~  
10 </head>~  
11 ~  
12 <body>~  
13 ~  
14 ~
```

Validators and Doctypes

HTML5 simplified the doctype substantially:

```
<!DOCTYPE html>
```

It's a whole different approach. Easier.

W3C Validator

<http://validator.w3.org/>

And also,

<http://validator.nu/>

Cascading Style Sheets (CSS)

CSS Syntax

Attaching Your Styles

There are three ways to attach CSS an HTML document

External Style Sheet

Internal Style Sheet

Inline Styles

Attaching Your Styles

External Style Sheet

```
<head>
  <link rel="stylesheet" href="mystyle.css"
    media="screen" />
</head>
```


Attaching Your Styles

Internal Style Sheet

```
<head>
  <style>
    p { color: red; }
  </style>
</head>
```

Also called Embedded

Attaching Your Styles

Inline Styles

```
<p style="color:red">A red paragraph.</p>
```

Attaching Your Styles

Inline Styles

```
<p style="color:red">A red paragraph.</p>
```

Inline styles are bad practice. Forget you saw them.

CSS Shorthand

There are a lot of CSS border properties

For borders on all sides:

- border
- border-color
- border-style
- border-width

For top borders:

- border-top
- border-top-color
- border-top-style
- border-top-width

For right borders:

- border-right
- border-right-color
- border-right-style
- border-right-width

For bottom borders:

- border-bottom
- border-bottom-color
- border-bottom-style
- border-bottom-width

For left borders:

- border-left
- border-left-color
- border-left-style
- border-left-width

Most of them are redundant

If all of your borders are the same on every side, you can just use the border property

border

border-color
border-style
border-width

border-top
border-top-color
border-top-style
border-top-width

border-right
border-right-color
border-right-style
border-right-width

border-bottom
border-bottom-color
border-bottom-style
border-bottom-width

border-left
border-left-color
border-left-style
border-left-width

Border property

If all of your borders are the same on every side, you can just use the border property

Syntax:

```
p {  
  border: width style color;  
}
```

Example:

```
p {  
  border: 1px solid #333;  
}
```

This defines a one pixel wide solid gray border for all paragraphs

Example:

You want a three pixel dashed green border

But, you only want it on the left and bottom sides

border	
border-color	border-bottom
border-style	border-bottom-color
border-width	border-bottom-style
	border-bottom-width
border-top	
border-top-color	border-left
border-top-style	border-left-color
border-top-width	border-left-style
	border-left-width
border-right	
border-right-color	
border-right-style	
border-right-width	

border-left and border-bottom properties

If your borders differ on some sides, you must use the longer border-side properties.

Example:

```
p {  
  border-bottom: 3px dashed green;  
  border-left: 3px dashed green;  
}
```

This defines a three pixel wide dashed green border for all paragraphs

You should always use the CSS shorthand properties when possible

Thinking About Design

Content

Websites are about conveying information

That “information” is your content

Content is the
most important
part of a website

Audience

Who is your audience?

What do they want?

Does your website provide it?

Content and Audience

Know your audience

Know your objective

Design your site to effectively convey your
content to your audience

www.stackoverflow.com

Exercise

What is the objective of stackoverflow?

What is the content? How is it generated?

Who is the target audience?

How does the design of the website facilitate the website objective?

Is the site easy and intuitive to use?
