

# 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](#)

# The New York Times

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## ELECTION 2016

### Trump Lashes Out, Calling Debate Unfair

#### Goes on Attack Against Moderator, and Pageant Winner

By ALEXANDER BURNS

- Donald J. Trump said his mike might have been tampered with and that he was right to comment on a beauty queen's weight.
- He also threatened to make Bill Clinton's infidelity a campaign issue.

230 Comments

#### 1996 Miss Universe Recalls Humiliation



Video by QUYNHANH DO for MICHAEL SHEPHERD. Photo by Doug Miller/The New York Times

#### Clinton: At Ease, and Utterly Herself

By AMY CHOZICK

Hillary Clinton displayed her

#### Trump: Muted, by His Usual Standards

By ASHLEY PARKER

Neither good nor awful. Mr.

## The Opinion Pages

#### Hillary Clinton Will Not Be Interrupted

By JESSICA BENNETT

Trump's behavior was reminiscent of what many women deal with every day.



FRANK BRUNI

#### Sympathy for the Donald

What's a man to do when all is rigged against him?

#### What We Saw

How Trump vs. Clinton looked to Times Opinion writers.

- Editorial: In a Tight Race, Every Party Matters
- Fixes: Reviving House Calls by Doctors

#### 15 Questions for Clinton and Trump. You Choose.

Even after the debate, many issues haven't been addressed.



DAVID LEONHARDT

#### The Lies Trump Told

He lied about "stop and frisk." He lied about "birtherism."



#### When Men Talk About Women's Looks

By SUSAN CHIRA

Many women have felt the sting of Trump's mockery.

- Brooks: The Age of Reaction
- Letters: The Trump-Clinton Debate

**NEWS**

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- N.Y.
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- Sports
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- Op-Ed Columnists
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- Op-Ed Contributors
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- Television
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- Health
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- Weddings & Celebrations

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- Times Topics
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- Education Rate

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- Mobile Applications
- Replica Edition
- International New York Times

# 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.

```
> <header>
>   <p><a href="index.html" title="Visit the Recipe Book Home">Recipe Book</a></p>
>
>   <nav>
>     <ul>
>       <li><a href="index.html" title="Visit the Recipe Book Home">Home</a></li>
>       <li><a href="recipes.html" title="See the recipes">Recipes</a></li>
>       <li><a href="tips.html" title="Get some tips">Tips</a></li>
>       <li><a href="contributors.html" title="Learn about our contributors">Contributors</a></li>
>       <li><a href="about.html" title="About the site">About</a></li>
>     </ul>
>   </nav>
> </header>
```

# 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)

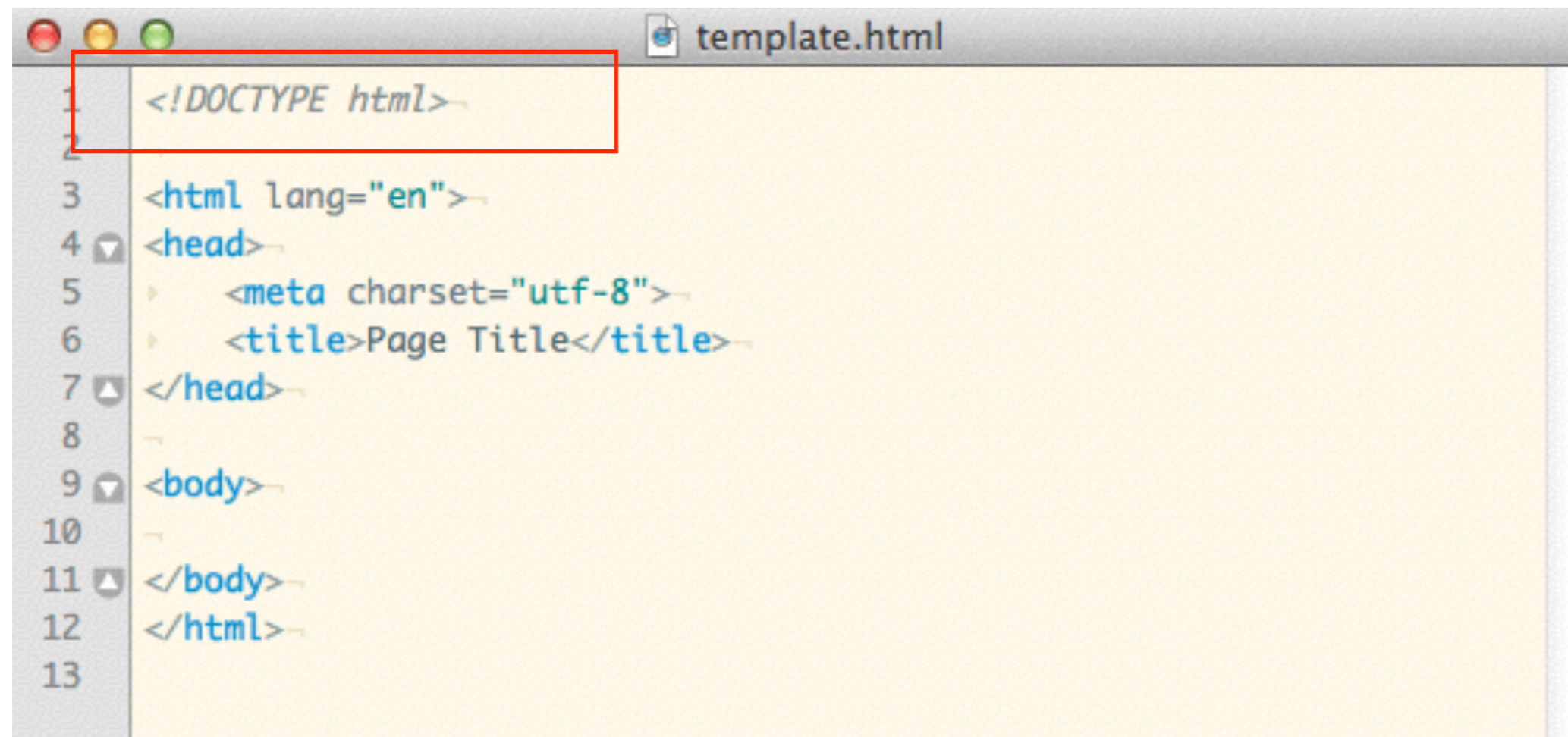
The W3C is an international group that develops web standards

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



# Validators and Doctypes

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



```
1 <!DOCTYPE html>
2
3 <html lang="en">
4 <head>
5   <meta charset="utf-8">
6   <title>Page Title</title>
7 </head>
8
9 <body>
10
11 </body>
12 </html>
13
```

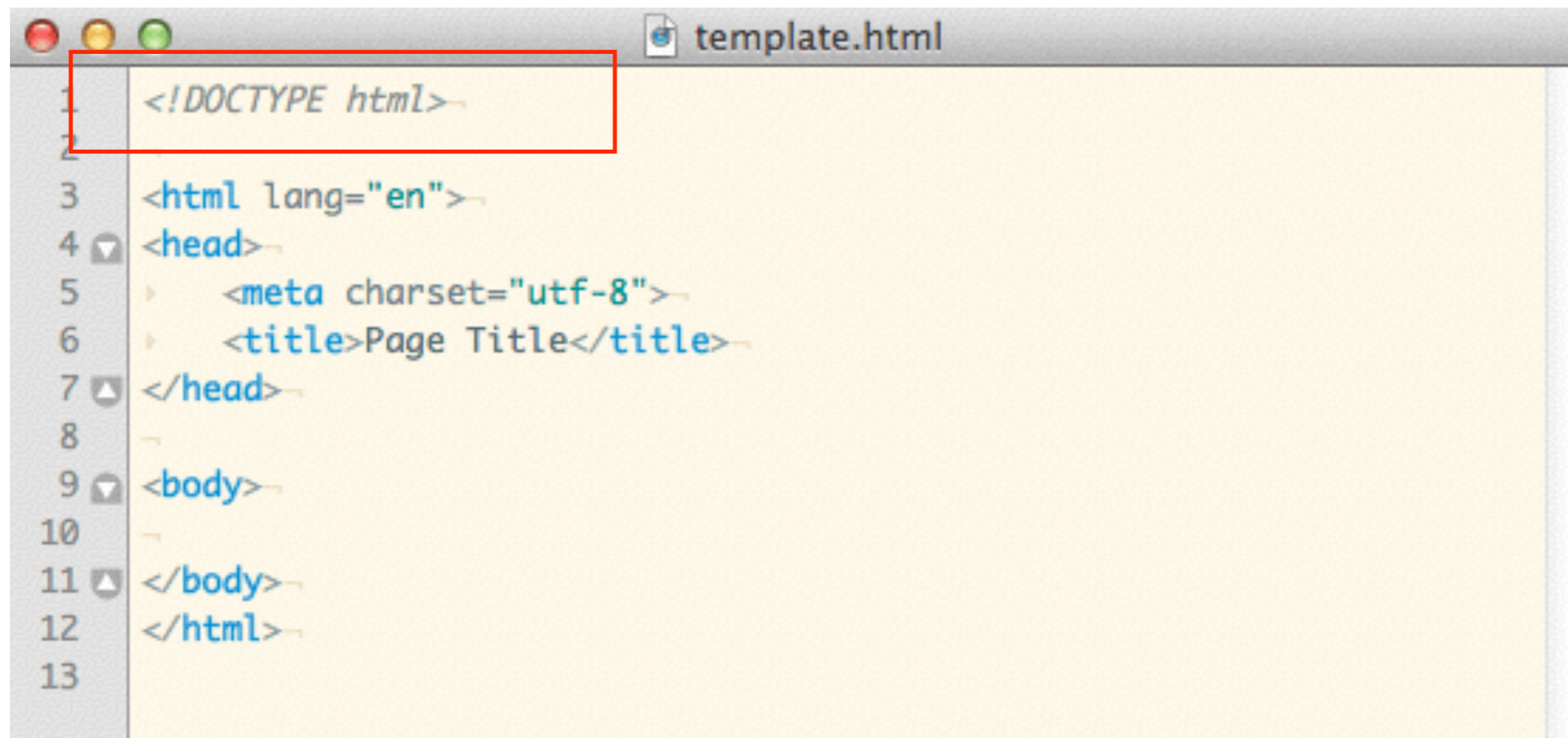
The screenshot shows a code editor window titled "template.html". The code is as follows:

```
1 <!DOCTYPE html>
2
3 <html lang="en">
4 <head>
5   <meta charset="utf-8">
6   <title>Page Title</title>
7 </head>
8
9 <body>
10
11 </body>
12 </html>
13
```

A red rectangular box highlights the first line of code, `<!DOCTYPE html>`.

# Validators and Doctypes

This tells the Validator how it should test the document



```
1 <!DOCTYPE html>
2
3 <html lang="en">
4 <head>
5   <meta charset="utf-8">
6   <title>Page Title</title>
7 </head>
8
9 <body>
10
11 </body>
12 </html>
13
```

# Validators and Doctypes

Most doctype are much more complex.

This document will be XHTML Strict



```
template.html
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>
```

# 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-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-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](http://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?