Making Your Own Website
What happens when you visit a website?

What does your web browser do?
What's that on top?
http://www.w3.org/community/webed/wiki/Main_Page
http://www.w3.org/community/webed/wiki/Main_Page

The World Wide Web
The World Wide Web

http://www.w3.org/community/webed/wiki/Main_Page

You

www.w3.org
The World Wide Web

You

http://www.w3.org/community/webed/wiki/Main_Page

www.w3.org
This is my web page.

I love coding.
• Connect to Wifi: Public
• Copy orion directory from USB key to computer
• Open “editor” page on your computer
• Write a few words about yourself

• No computer?
  – Make your web pages using http://jsbin.com or http://jsfiddle.net
This is my web page.

I love coding.

This is my web page. I love coding.
<p>words</p>
• Demo1 (paragraphs)
  – <p>I like coding.</p>
  – <p>This is my first web page.</p>

• Demo2 (headings)
  – <h1>Me</h1>
  – <p>I like coding.</p>
  – <p>This is my first web page.</p>
  – <h2>Favourite Things</h2>
  – <p>I like candy</p>
• Demo3 (spans—no new line)
  – <b>, <i>
• Demo4 (things that don't show)
  – <title>
• Demo5 (empty tags)
  – <hr/>, <br/>
• Demo6 (lists—tags inside tags)
  – `<ol> <li>`
  – `<ul> <li>`
• Other things to try
  – `<table><tr><td>, <blockquote>`
The Internet
- Demo (images and attributes)
  - `<img src=" ... ">

- Finding images on the Internet
  - Right-click image
  - Open image in a new window
  - Copy the URL
• Demo (links)
  − <a href=" ... ">
• Linking to pages on the Internet
• Making a website of multiple pages
John Doe

123 Main St.
Ontario
123456

Objective

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore

Skills

• keyword
• stuffing

Work Experience

Lorem Company, 20XX

• Lorem ipsum dolor sit amet, consectetur
• sunt in culpa qui officia deserunt mollit

Ipsum Corp, 20XX

• Lorem ipsum dolor sit amet, consectetur
This is my web page

I live in Toronto.

I like

• Princess Bubblegum
• and Jake the Dog
• Demo (style)
  – <p style="text-align: center; font-size: 200%"/>
• Syntax: name: value;
• Multiple styles together
• Demo (fonts)
  - font-size: 150%, 2em, 50px
  - text-align: center;
  - font-family: sans-serif;
color: red;
background-color: blue;

color: rgb(255, 100, 0);
How do we set the colour of the background?

My Web Page

This is my web page. It has lots of different colours.

I like eating cake, cookies, chocolate, and gummi bears.
• Demo (body)
  – Put all things that can be seen in a body tag
  – Then style the body tag

• Demo (proper organization)
  – Put all things that can be seen in a body tag
  – Things that can't be seen in a head tag
  – Everything in an html tag
  – Doctype on top
This grey box has more than one paragraph in it.

What tags should we use?
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<p>This grey box has more than one paragraph in it.</p>

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What tags should we use?

```html
<div style="border: 1px solid black">
  <p>This grey box has more than one paragraph in it.</p>
  <p>What tags should we use?</p>
</div>
```
Exceptror sint occaecat

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Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu
<p>I like</p>
<ul>
  <li>Candy</li>
  <li>Toys</li>
  <li>Bikes</li>
  <li>Cookies</li>
</ul>
STYLE ALL THE THINGS!

* image from Allie Brosh http://hyperboleandahalf.blogspot.com/
Demo (stylesheets)
- Want to style all the paragraphs
- Use a style tag
- Selectors for styling different tags
  - Style the paragraphs
  - Style the `<i>` and `<b>`
• Demo (classes)
  – Apply style to more than one paragraph or list item
  – Use class
• Happy Web Page Building
• Other things to look at:
  – MDN or w3schools for reference information
    • Lookup HTML tags and CSS
  – Accessibility
  – Best practices and proper organization
  – Box model
  – Animation
Making Your Own Website
What happens when you visit a website?

What does your web browser do?
What's that on top?

- What's that funny stuff at the top of your browser?
- It's a URL
- It's an “address” of a file on the Internet
What happens when you look at a web page
http://
  • Look for things on the world wide web
  • (also: file: mailto: news: gopher: ftp:
  • www.w3.org
    • Name of the computer where files are
  • /community/webed/wiki/Main_Page
  • Which file on that computer
• What happens when you look at a web page
• http://
  • Look for things on the world wide web
  • (also: file: mailto: news: gopher: ftp:
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  • Name of the computer where files are
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  • (also: file: mailto: news: gopher: ftp:
• www.w3.org
  • Name of the computer where files are
• /community/webed/wiki/Main_Page
  • Which file on that computer
• File is copied to your computer and shown on the screen
  • Can be any file
  • Pictures, videos, word processor files, games, etc.
• The main type of file is called HTML
  • What is HTML?
    • Hypertext markup language
  • Basically a word processor file
• Let's start making a web page
  • Think about something you want to write about
    • Write about yourself
    • Page about your favourite movie or team
    • Fake company
  • We'll use the Orion editor to make some pages
  • Write your HTML code on left, the web page shows up on right
  • Start writing some stuff
    • My name is ____. I like _____
• Connect to Wifi: Public
• Copy orion directory from USB key to computer
• Open “editor” page on your computer
• Write a few words about yourself

• No computer?
  − Make your web pages using http://jsbin.com or http://jsfiddle.net
• Why is everything all on one line?
  • HTML normally puts everything together
  • You need to “markup” what everything is
● Use tags to “markup” your HTML
  ● <p> some stuff here </p>
● Tells the computer what the different parts of your document is
● Has a start and an end tag
● Angle brackets with the name of what's inside
● <p> for paragraph
  ● Start paragraph, end paragraph
• Demo1 (paragraphs)
  – <p>I like coding.</p>
  – <p>This is my first web page.</p>
• Demo2 (headings)
  – <h1>Me</h1>
  – <p>I like coding.</p>
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  – <hr/>, <br/>
• Demo6 (lists—tags inside tags)
  – <ol> <li>
  – <ul> <li>
• Other things to try
  – <table><tr><td>, <blockquote>
• What is the most important thing on the Internet?
  • Cat pictures
• How do we get pictures on our web pages?
• Demo (images and attributes)
  – `<img src=" ... "/>`

• Finding images on the Internet
  – Right-click image
  – Open image in a new window
  – Copy the URL
• Demo (links)
  – <a href=" ... "/>

• Linking to pages on the Internet
• Making a website of multiple pages
- Very basic online resume
- How do we make this web page?
So far, our web pages look pretty plain. How do we jazz it up and make it look awesome?
• Demo (style)
  – <p style="text-align: center; font-size: 200%"/>
• Syntax: name: value;
• Multiple styles together
• Demo (fonts)
  - font-size: 150%, 2em, 50px
  - text-align: center;
  - font-family: sans-serif;
• Colours
  • color: red;
  • Different colour names:
    • Red, green, blue, etc.
  • Also, rgb(100, 100, 100)
How do we set the colour of the background?

My Web Page

This is my web page. It has lots of different colours.

I like eating cake, cookies, chocolate, and gummi bears.
• Demo (body)
  – Put all things that can be seen in a body tag
  – Then style the body tag
• Demo (proper organization)
  – Put all things that can be seen in a body tag
  – Things that can't be seen in a head tag
  – Everything in an html tag
  – Doctype on top

• How do you change the background of the whole document?
  • Use some extra tags
    • <html> around everything
    • <head> around stuff that you don't want shown
    • <body> around all the stuff you want shown
    • <!doctype html> just because
    • example
  • Then apply style to body or html
    • html {...}
• Some things aren't really paragraphs
  • Usually use <div> instead of paragraphs
  • Use <div> for things that start a new line
• Usually use <span> for smaller changes
  • Use <span> for words when a new line shouldn't be created
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This grey box has more than one paragraph in it.

What tags should we use?

- Some things aren't really paragraphs
  - Usually use `<div>` instead of paragraphs
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  • Usually use `<span>` for smaller changes
    • Use `<span>` for words when a new line shouldn't be created
• Clashing flower page with sidebar and bleeded photos
• How can we lay this out?
I like
- Candy
- Toys
- Bikes
- Cookies

Adding style to lots of things is hard work
Here, we have a list, and we want to style each item of the list
Lots of code!
  - Is there a better way?
STYLE ALL THE THINGS!

* image from Allie Brosh http://hyperboleandahalf.blogspot.com/
• Demo (stylesheets)
  – Want to style all the paragraphs
  – Use a style tag
  – Selectors for styling different tags
    • Style the paragraphs
    • Style the <i> and <b>

• Applying style to more than one thing
  • Use stylesheets
  • Allows you to use a style on everything that matches a pattern
  • <style>...</style>
    • p {...}
    • i {...}
• Demo (classes)
  – Apply style to more than one paragraph or list item
  – Use class

• Applying styles to only some paragraphs
  • You can label paragraphs with a class
  • `<p class="big">Huge Text</p>`
  • Then style it with
  • `p.big { font-size: 300%; }`
• Happy Web Page Building
• Other things to look at:
  – MDN or w3schools for reference information
    • Lookup HTML tags and CSS
  – Accessibility
  – Best practices and proper organization
  – Box model
  – Animation