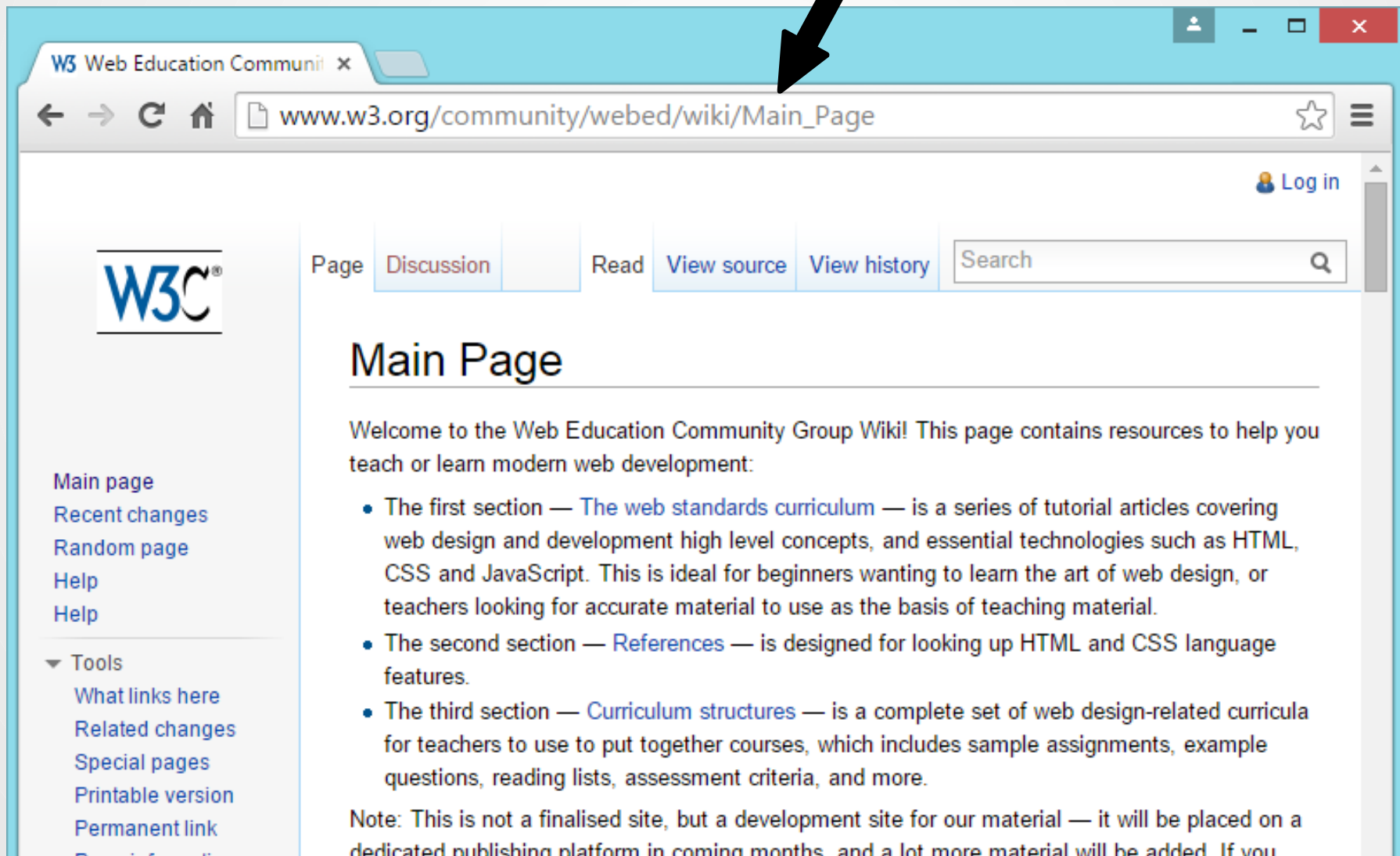


Making Your Own Website

What happens when you visit
a website?

What does your web browser
do?

What's that on top?



The image shows a screenshot of a web browser displaying the W3C Web Education Community Wiki Main Page. A large black arrow points from the text 'What's that on top?' to the browser's address bar. The address bar shows the URL 'www.w3.org/community/webed/wiki/Main_Page'. The browser's title bar indicates the page is 'W3 Web Education Communit...'. The page content includes the W3C logo, a navigation menu with links like 'Main page', 'Recent changes', and 'Random page', and a list of three sections: 'The web standards curriculum', 'References', and 'Curriculum structures'. A 'Log in' link is visible in the top right corner.

W3 Web Education Communit x

← → ↻ 🏠 📄 www.w3.org/community/webed/wiki/Main_Page ☆ ☰

👤 Log in

Page Discussion Read View source View history Search

Main Page

Welcome to the Web Education Community Group Wiki! This page contains resources to help you teach or learn modern web development:

- The first section — [The web standards curriculum](#) — is a series of tutorial articles covering web design and development high level concepts, and essential technologies such as HTML, CSS and JavaScript. This is ideal for beginners wanting to learn the art of web design, or teachers looking for accurate material to use as the basis of teaching material.
- The second section — [References](#) — is designed for looking up HTML and CSS language features.
- The third section — [Curriculum structures](#) — is a complete set of web design-related curricula for teachers to use to put together courses, which includes sample assignments, example questions, reading lists, assessment criteria, and more.

Note: This is not a finalised site, but a development site for our material — it will be placed on a dedicated publishing platform in coming months, and a lot more material will be added. If you

Main page
Recent changes
Random page
Help
Help

Tools
What links here
Related changes
Special pages
Printable version
Permanent link

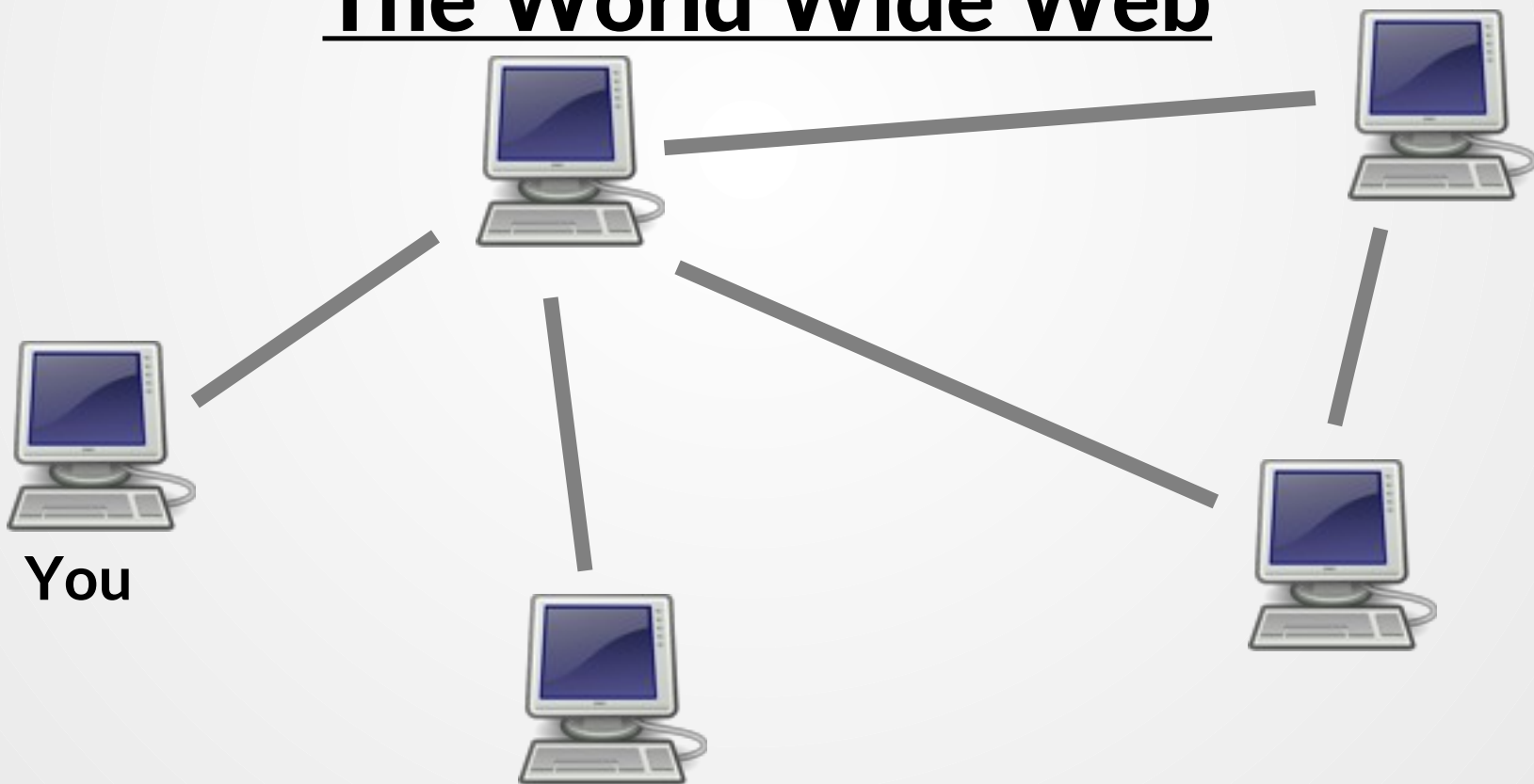
[http:// www.w3.org /community/webed/wiki/Main_Page](http://www.w3.org/community/webed/wiki/Main_Page)



You

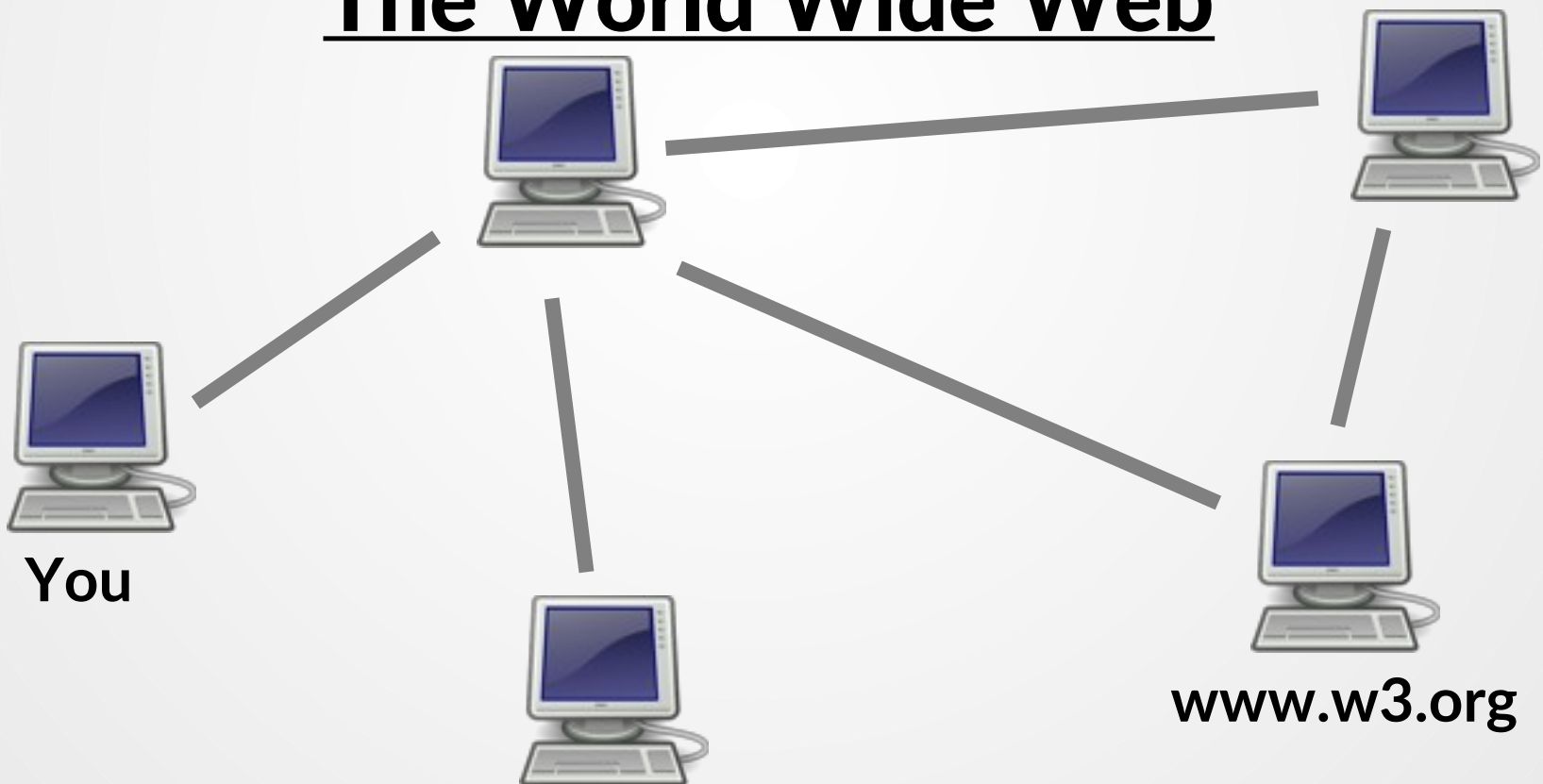
[http://www.w3.org /community/webbed/wiki/Main_Page](http://www.w3.org/community/webbed/wiki/Main_Page)

The World Wide Web



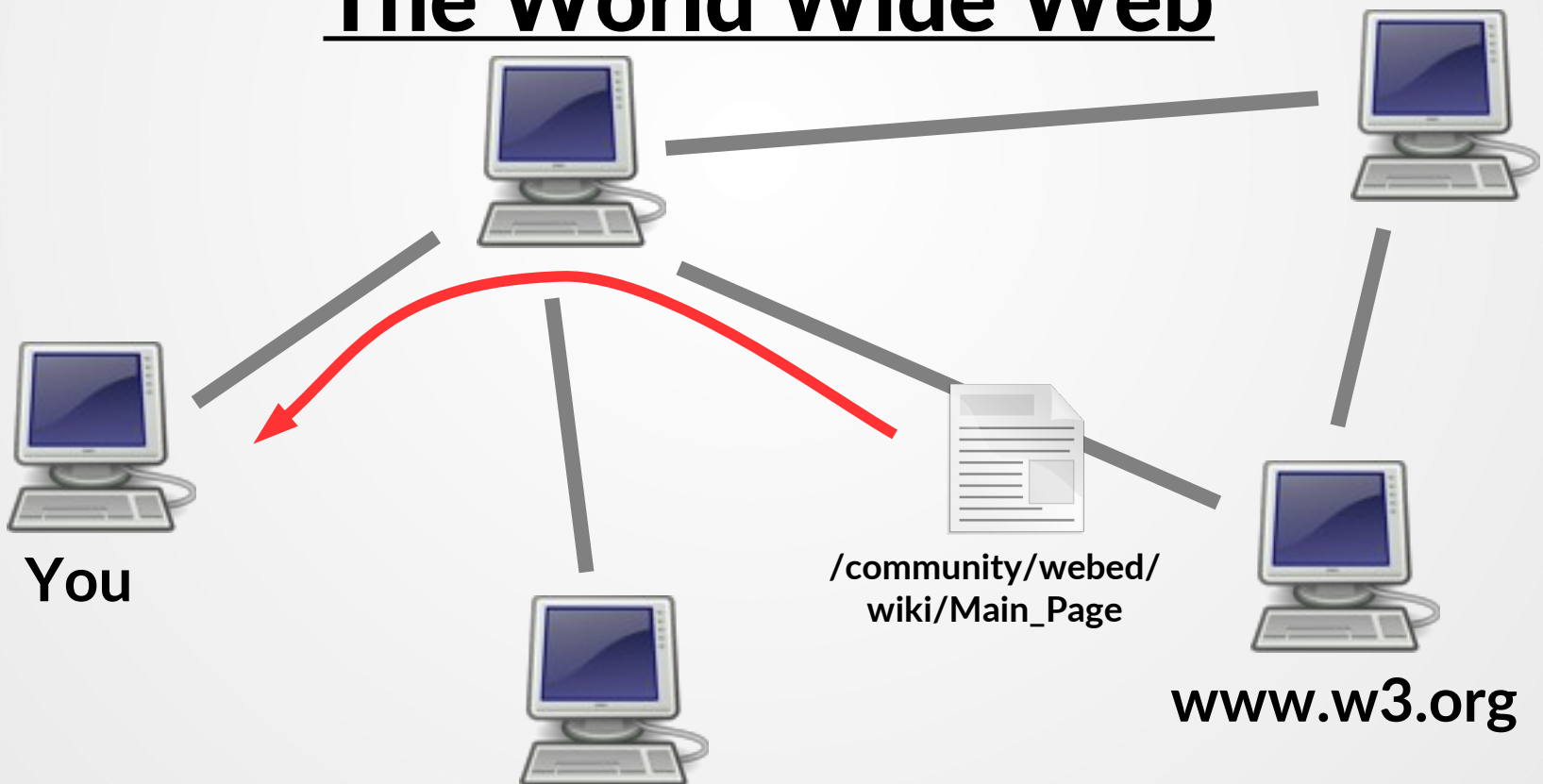
http://www.w3.org/community/webbed/wiki/Main_Page

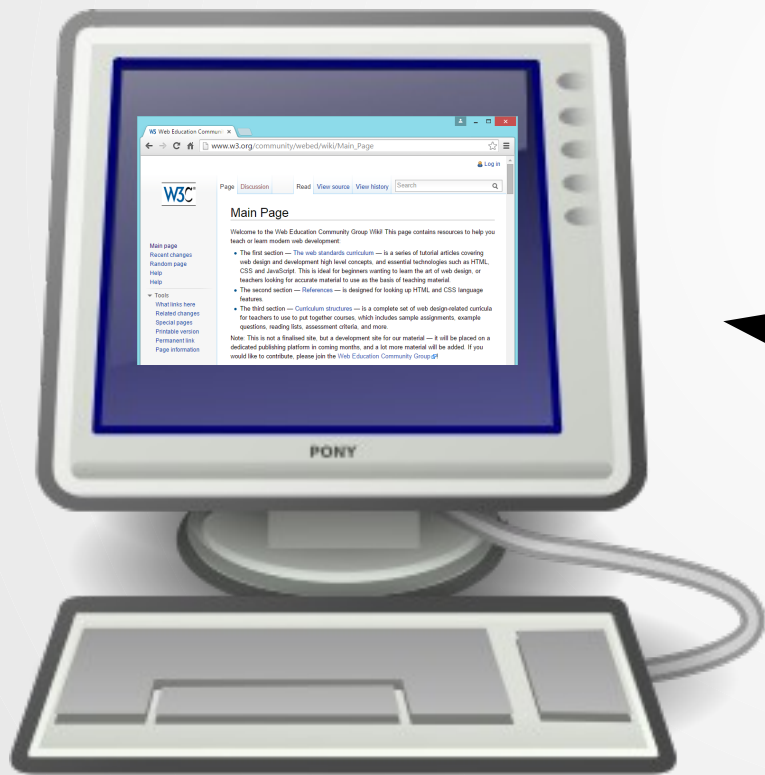
The World Wide Web



[http:// www.w3.org /community/webed/wiki/Main_Page](http://www.w3.org/community/webed/wiki/Main_Page)

The World Wide Web





Orion Editor

load save

open in new window reload ☒ auto-reload

```
1  
2 This is my web page.  
3  
4 I love coding.
```

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>

Orion Editor

load save

open in new window reload ☒ auto-reload

```
1  
2 This is my web page.  
3  
4 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)
 - ``, `<i>`
- Demo4 (things that don't show)
 - `<title>`
- Demo5 (empty tags)
 - `<hr/>`, `
`

- Demo6 (lists—tags inside tags)
 - ` `
 - ` `
- Other things to try
 - `<table><tr><td>`, `<blockquote>`



The Internet



- Demo (images and attributes)
 - ``
- Finding images on the Internet
 - Right-click image
 - Open image in a new window
 - Copy the URL

- Demo (links)
 - ``
- 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

STYLE

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?

This grey box has
more than one
paragraph in it.

What tags should
we use?

This grey box has
more than one
paragraph in it.

`<p>This grey box has more than one
paragraph in it.</p>`

What tags should
we use?

`<p>What tags should we use?</p>`

This grey box has
more than one
paragraph in it.

What tags should
we use?

`<p style="border: 1px solid black;">`

`<p>This grey box has more than one
paragraph in it.</p>`

`<p>What tags should we use?</p>`

`</p>`

This grey box has
more than one
paragraph in it.

What tags should
we use?

<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>



Excepteur sint occaecat

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia

Ut enim ad minim



Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu

```
<p>I like</p>
```

```
<ul>
```

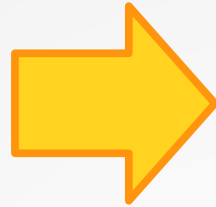
```
<li>Candy</li>
```

```
<li>Toys</li>
```

```
<li>Bikes</li>
```

```
<li>Cookies</li>
```

```
</ul>
```



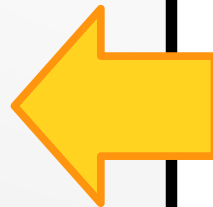
I like

- Candy
- Toys
- Bikes
- Cookies



I like

- Candy
- Toys
- Bikes
- Cookies



```
<p>I like</p>
```

```
<ul>
```

```
<li style="background-color: lightgrey; padding 0.5em; padding-left: 0.5em; border-radius: 0.5em; margin: 0.25em;">Candy</li>
```

```
<li style="background-color: lightgrey; padding 0.5em; padding-left: 0.5em; border-radius: 0.5em; margin: 0.25em;">Toys</li>
```

```
<li style="background-color: lightgrey; padding 0.5em; padding-left: 0.5em; border-radius: 0.5em; margin: 0.25em;">Bikes</li>
```

```
<li style="background-color: lightgrey; padding 0.5em; padding-left: 0.5em; border-radius: 0.5em; margin: 0.25em;">Cookies</li>
```

```
</ul>
```




* 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 ``

- Demo (classes)
 - Apply style to more than one paragraph or list item
 - Use class

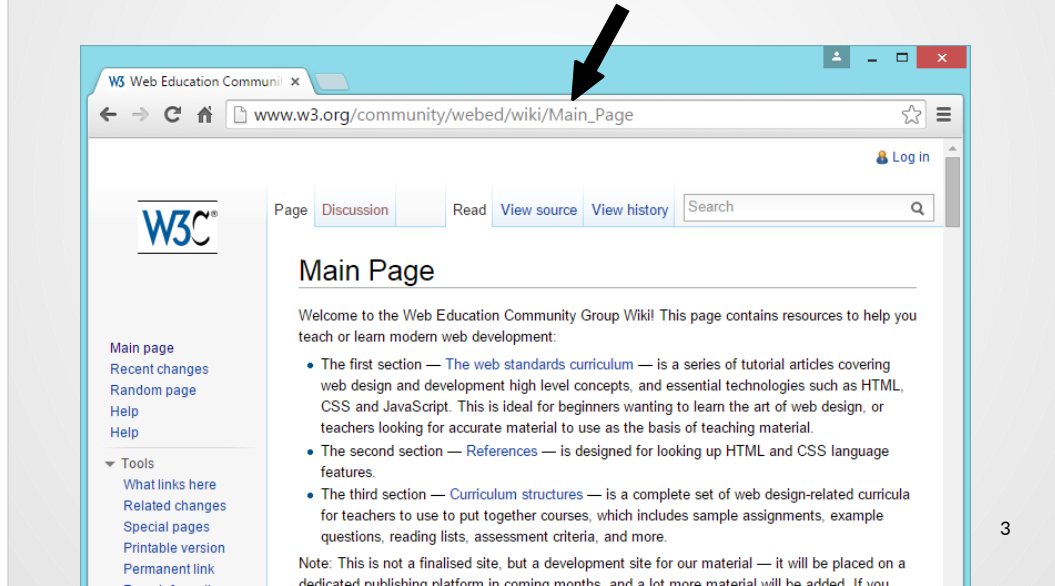
- Happy Web Page Building
- Other things to look at:
 - MDN or w3schools for reference information
 - Lookup HTML tags and CSS
 - Accessibility
 - Best practices and proper organization
 - Box model
 - Animation

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

`http:// www.w3.org /community/webbed/wiki/Main_Page`



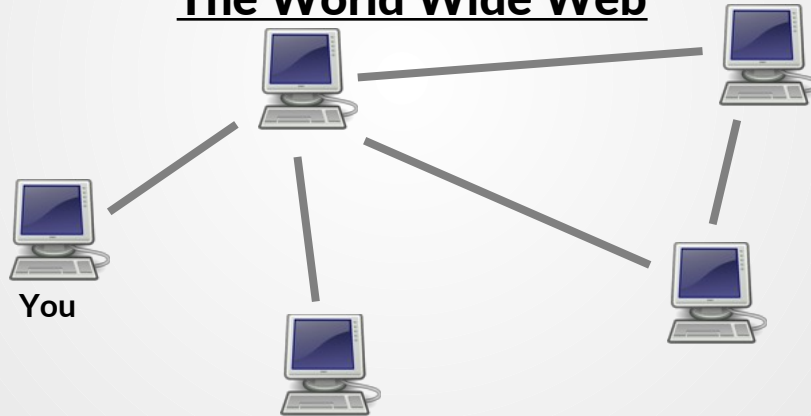
You

4

- 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/webbed/wiki/Main_Page`
 - Which file on that computer

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

The World Wide Web



5

- 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/webbed/wiki/Main_Page`
 - Which file on that computer

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

The World Wide Web



6

- 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

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

The World Wide Web



7

- 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/webbed/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

`<p>words</p>`

12

- 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>`
 - `<p>This is my first web page.</p>`
 - `<h2>Favourite Things</h2>`
 - `<p>I like candy</p>`

- Demo3 (spans—no new line)
 - ``, `<i>`
- Demo4 (things that don't show)
 - `<title>`
- Demo5 (empty tags)
 - `<hr/>`, `
`

- Demo6 (lists—tags inside tags)
 - ` `
 - ` `
- Other things to try
 - `<table><tr><td>`, `<blockquote>`



16

- What is the most important thing on the Internet?
 - Cat pictures
- How do we get pictures on our web pages?

- Demo (images and attributes)
 - ``
- Finding images on the Internet
 - Right-click image
 - Open image in a new window
 - Copy the URL

- Demo (links)
 - ``
- 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

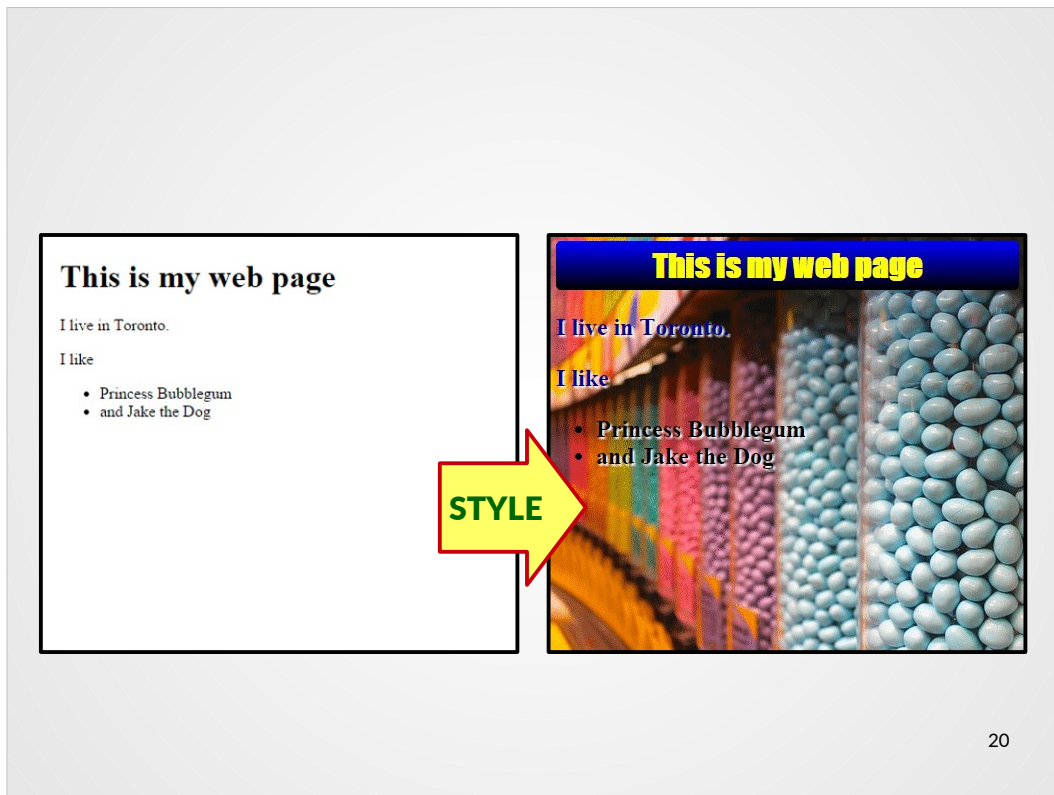
- Lorem ipsum dolor sit amet, consectetur
- sunt in culpa qui officia deserunt mollit

Ipsum Corp, 20XX

- Lorem ipsum dolor sit amet, consectetur

19

- 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;

color: red;
background-color: blue;

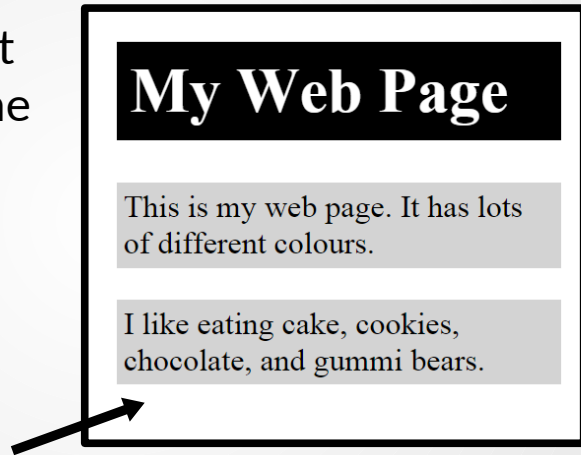
color: rgb(255, 100, 0);



23

- Colours
 - color: red;
 - Different colour names:
 - Red, green, blue, etc.
 - Also, rgb(100, 100, 100)

How do we set
the colour of the
background?



- 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

25

- 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 {...}`

This grey box has
more than one
paragraph in it.

What tags should
we use?

26

- Some things aren't really paragraphs
 - Usually use `<div>` instead of paragraphs
 - Use `<div>` for things that start a new line
 - Usually use `` for smaller changes
 - Use `` for words when a new line shouldn't be created

This grey box has
more than one
paragraph in it.

What tags should
we use?

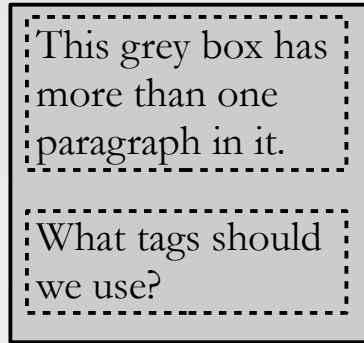
27

- Some things aren't really paragraphs
 - Usually use `<div>` instead of paragraphs
 - Use `<div>` for things that start a new line
 - Usually use `` for smaller changes
 - Use `` for words when a new line shouldn't be created

The diagram illustrates a grey box containing two paragraphs. The first paragraph is "This grey box has more than one paragraph in it." and the second is "What tags should we use?". Arrows point from each paragraph to its corresponding HTML tag: `<p>This grey box has more than one paragraph in it.</p>` for the first and `<p>What tags should we use?</p>` for the second.

28

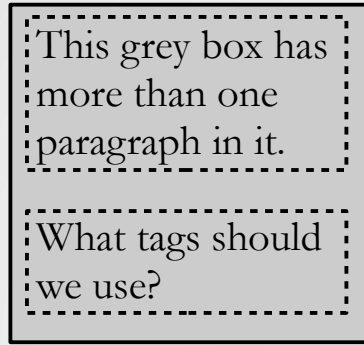
- Some things aren't really paragraphs
 - Usually use `<div>` instead of paragraphs
 - Use `<div>` for things that start a new line
 - Usually use `` for smaller changes
 - Use `` for words when a new line shouldn't be created



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

29

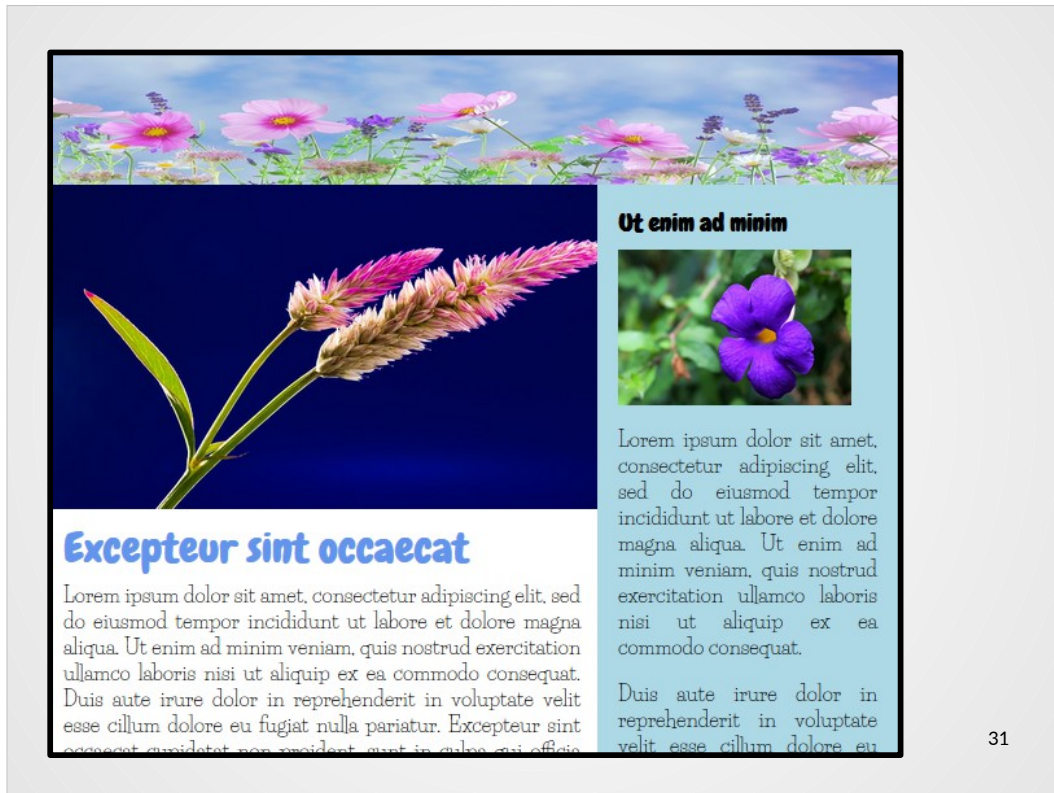
- Some things aren't really paragraphs
 - Usually use `<div>` instead of paragraphs
 - Use `<div>` for things that start a new line
 - Usually use `` for smaller changes
 - Use `` for words when a new line shouldn't be created



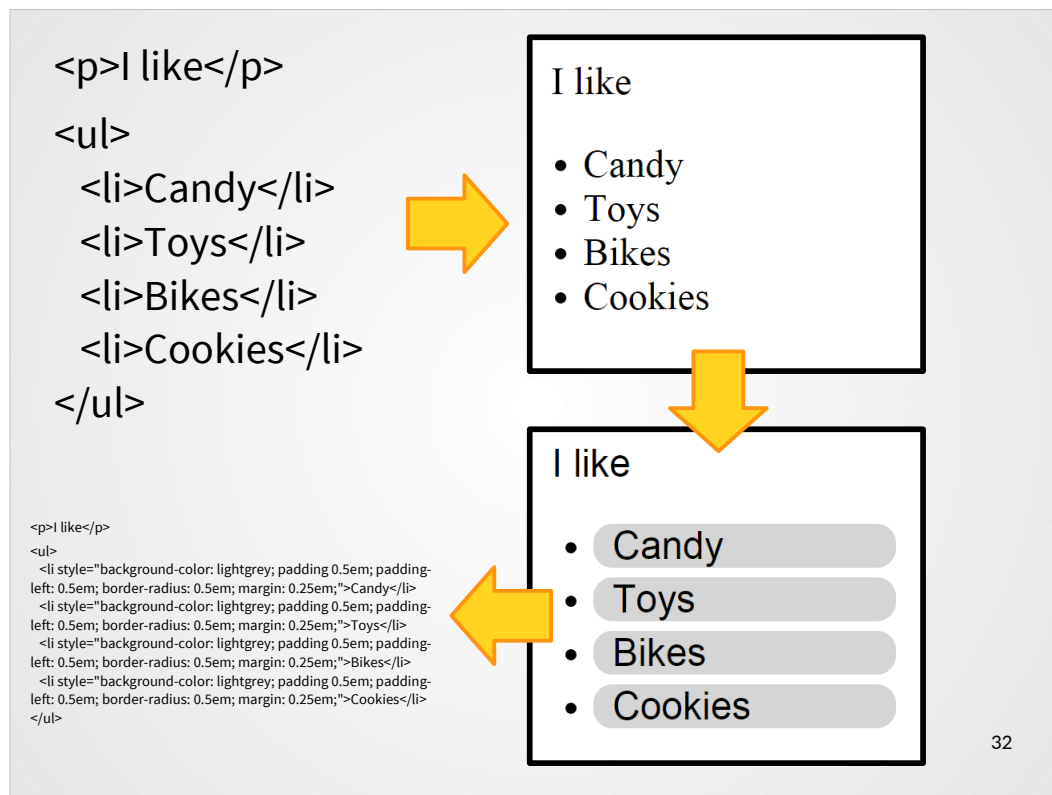
```
<div style="border: 1px solid black">  
  <p>This grey box has more than one  
  paragraph in it.</p>  
  
  <p>What tags should we use?</p>  
</div>
```

30

- Some things aren't really paragraphs
 - Usually use `<div>` instead of paragraphs
 - Use `<div>` for things that start a new line
 - Usually use `` for smaller changes
 - Use `` for words when a new line shouldn't be created



- Clashing flower page with sidebar and bled into photos
- How can we lay this out?



- 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?



* 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 ``

34

- 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

35

- 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