HTML: Nesting & Blocks





Correct & incorrect nesting.

Block & inline elements and

line breaks

Some Key Concepts

- **Nesting** of elements specifically correct and incorrect nesting.
- block and inline elements



Agenda

- Nesting
- Line break, Block & Inline Elements

Nesting

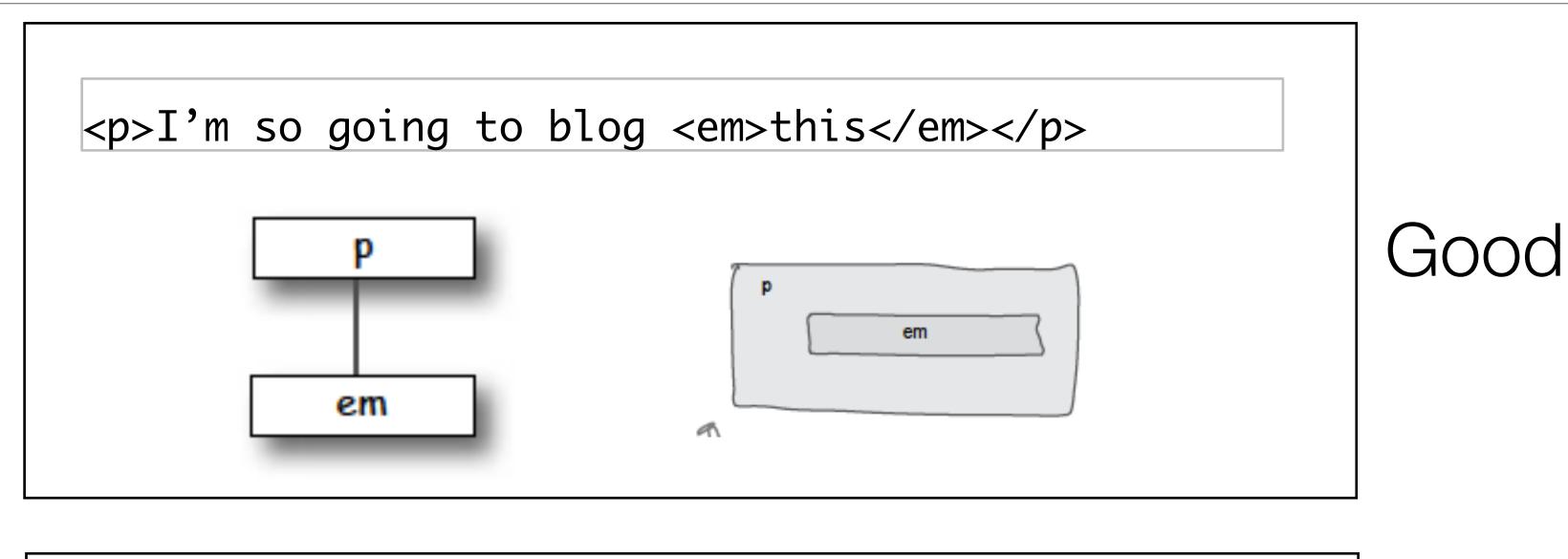
- · When we put one element inside another element, we call that nesting.
- We say, the element is nested inside the <body>element.
- We put a <body>element inside an <html>element, a element inside a
 description

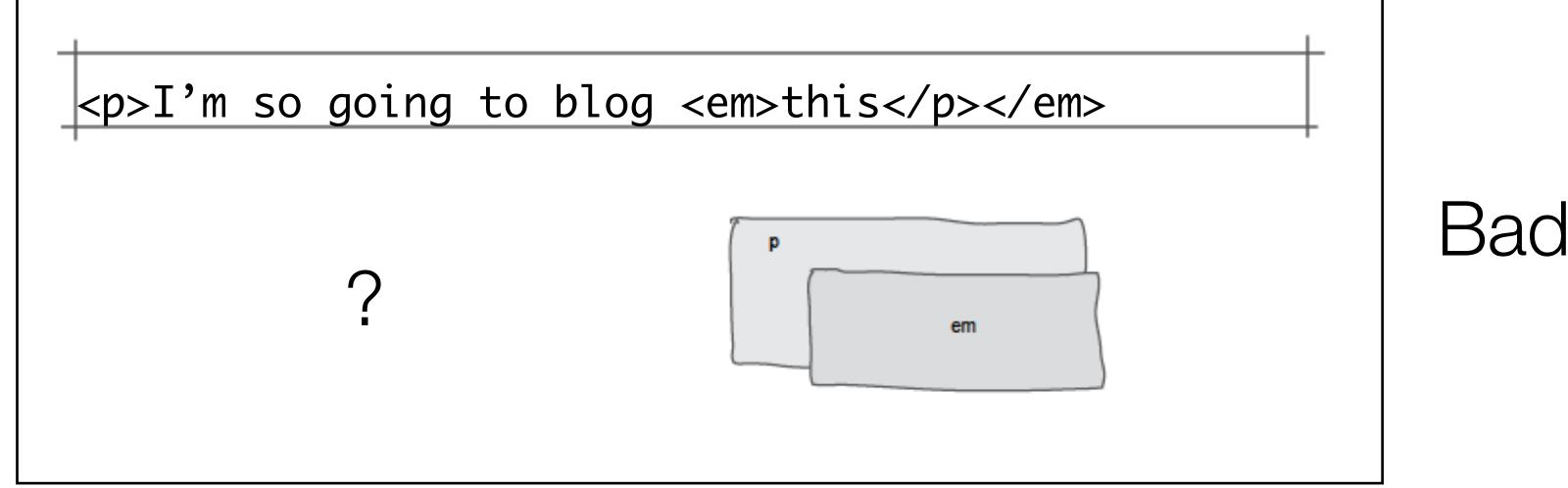




<html> <head> Nesting - Tree Structure <title>Musings</title> </head> <body> > To quote Buckaroo, <q>The only reason <html> is always the for time is so that everything element at the root of doesn't happen the tree. at once.</q> </body> </html> > has two nested cicinents: <head> and <body>. You can call them both <body> is nested within the <html> element, so we say <body> is the "child" "children" of <html>. html of <html>. head body title> is nested within the title head> element. The parent of <q> is , the parent of is <body>, the parent of <body> is <html>.

Nesting can be Incorrect!





Agenda

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Line breaks

there are no Dumb Questions

I think I know what a linebreak is; it's like hitting the carriage return on a typewriter or the Return key on a computer keyboard. Right?

A: Pretty much. A linebreak is literally a "break in the line," like this, and happens when you hit the Return key, or on some computers, the Enter key. You already know that linebreaks in HTML files don't show up visually when the browser displays a page, right? But now you've also seen that anytime you use a block element, the browser uses linebreaks to separate each "block."



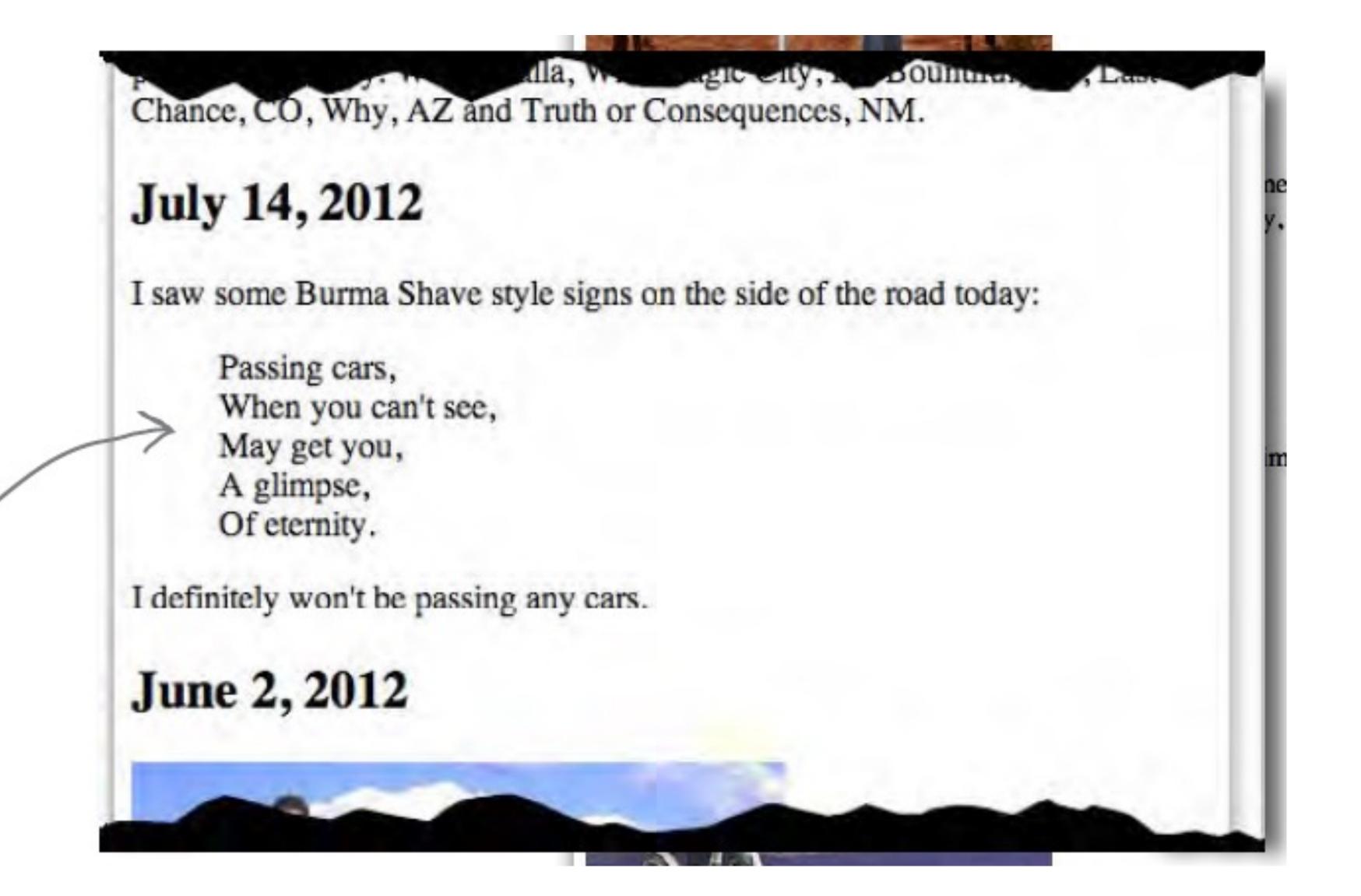
Line Breaks

Here's the July
14th snippet from
Tony's page.

```
<h2>July 14, 2012</h2>
>
   I saw some Burma Shave style signs on the
   side of the road today:
Add a <br> element to any line
<br/>
<br/>
dlockquote>
                                            when you want to break the flow and insert a "linebreak."
   Passing cars, <br>
   When you can't see, <br>
   May get you, <br>
   A glimpse, <br>
   Of eternity. <br>
</blockquote>
<q>>
   I definitely won't be passing any cars.
```

Line Breaks

Each line now has a linebreak after it.



Line Breaks

- Break:
 </br>
- An Empty element: sometimes shortened to:
 -
></br>
- or just
 -

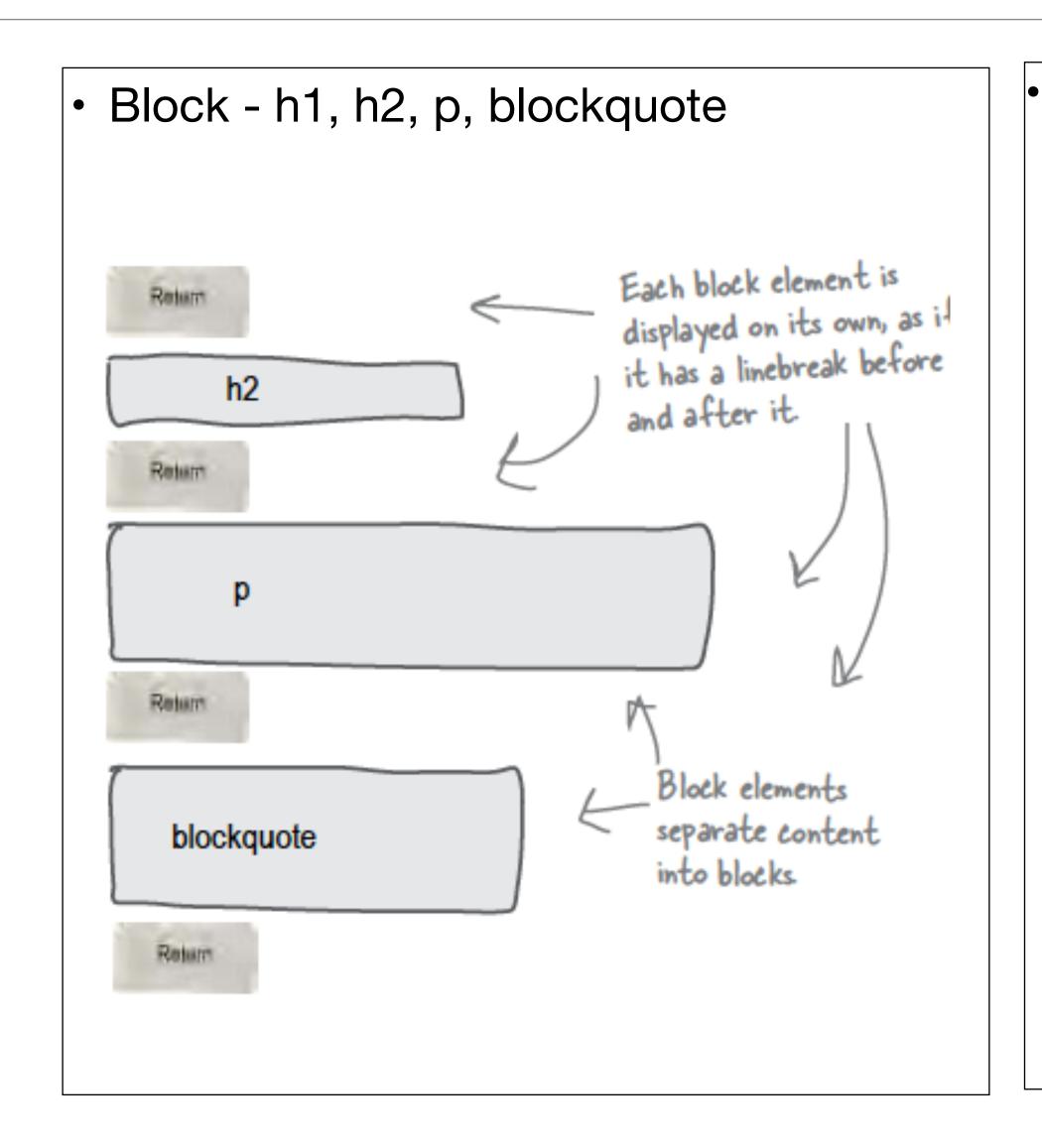
- or
 -

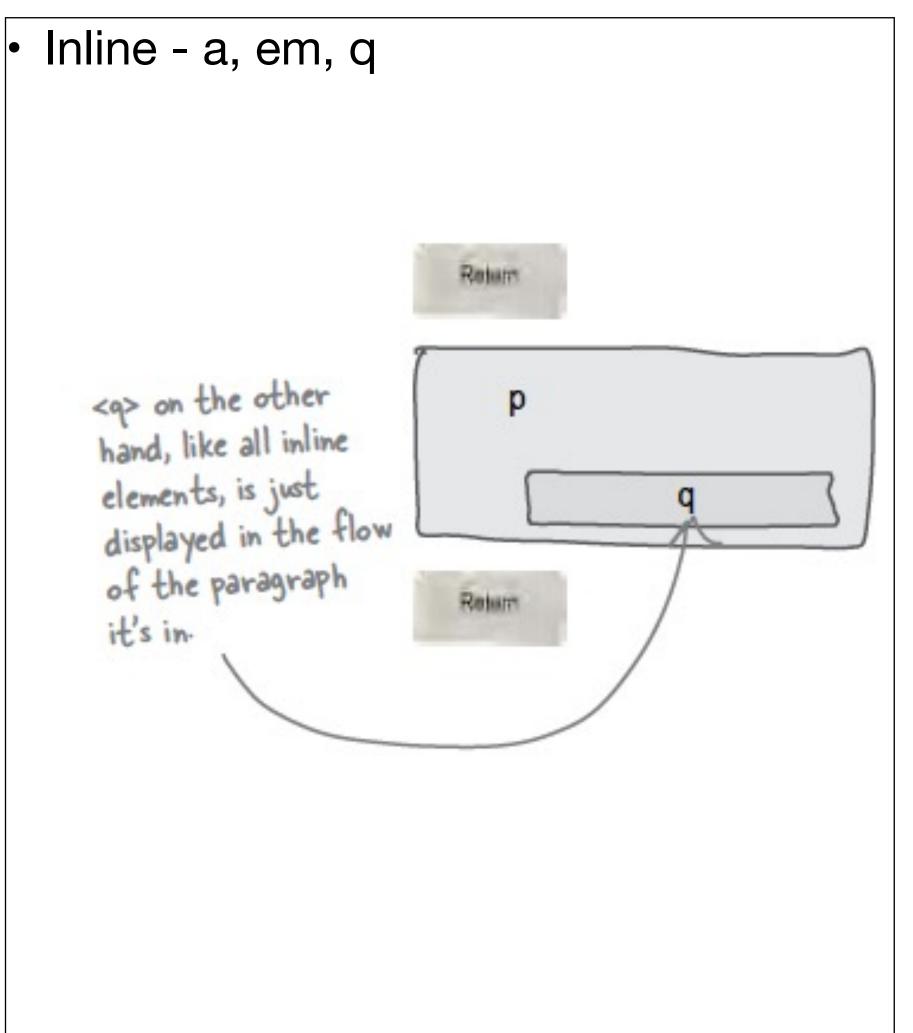
Block vs Inline Elements

- Block elements are always displayed as if they have a line break before and after them
- inline elements appear "in line" within the flow of the text in your page.

"Block elements stand on their own; inline elements go with the flow."

Examples

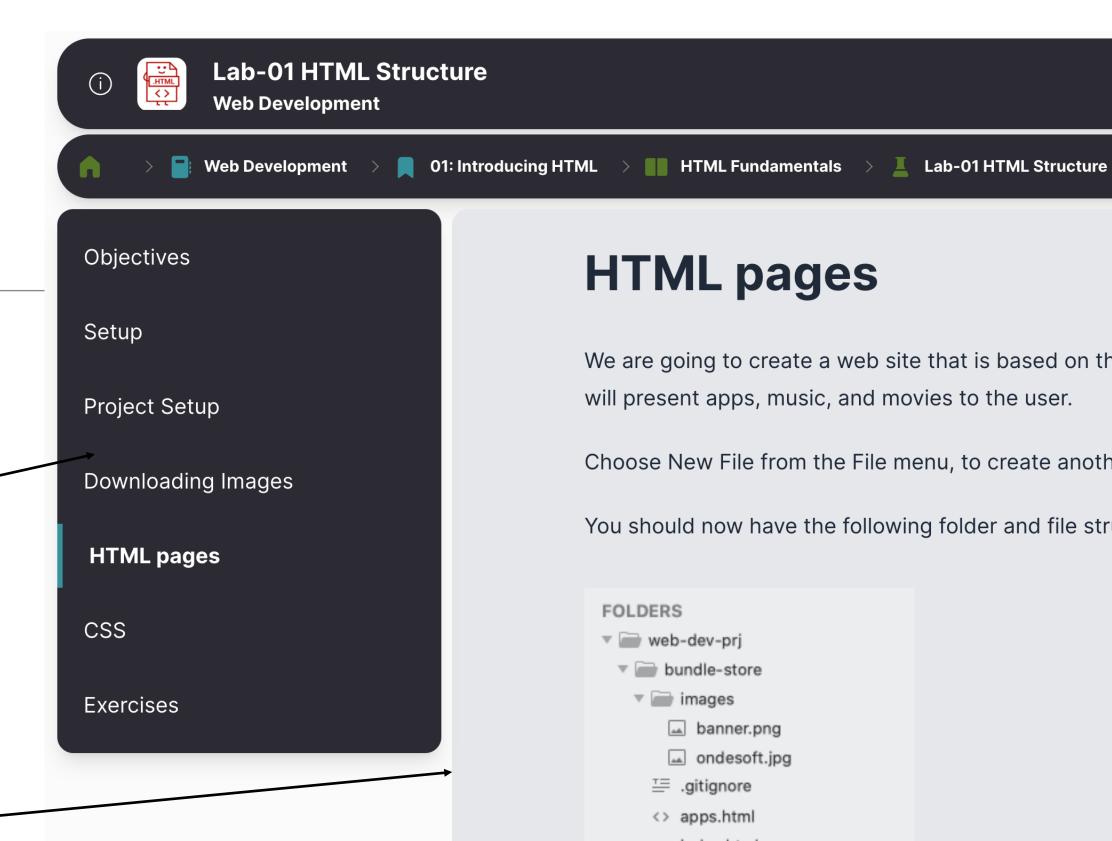




Labs

Steps

Instructions for each step

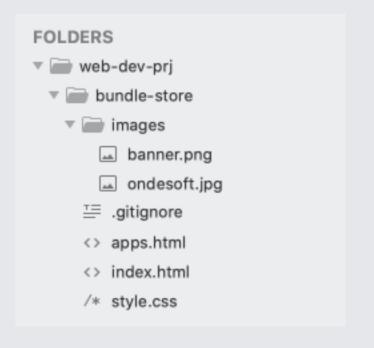


HTML pages

We are going to create a web site that is based on the Google Play site or the Apple app store. It will present apps, music, and movies to the user.

Choose New File from the File menu, to create another new file called apps.html

You should now have the following folder and file structure visible in Sublime:



Make sure your sublime matches the above precisely.

Next you will write some html code into the two html files.

Copy and paste in the following code into each of the files in turn:

index.html

```
<!DOCTYPE HTML>
<html>
 <head>
   <title>Bundle APP Store</title>
```

Typical Lab Step:

- Screen shots to show outcome
- Some html to type
- More screen shots to show expected outcome
- Reflect as you go along

```
Objectives

Setup

Project Setup

Downloading Images

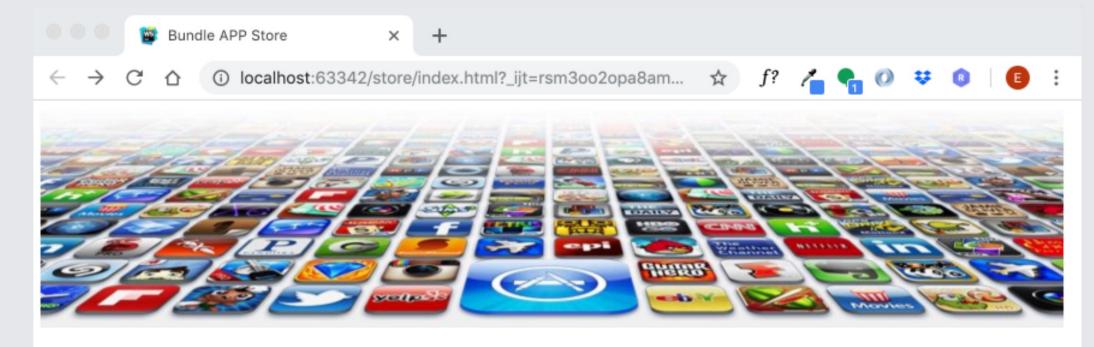
HTML pages

CSS

Exercises
```

```
h1 {
  color: red;
}
```

Save all your files. Refresh the index page in your browser and see the result of writing this one css rule.



Welcome to the App Bundle Store

This store brings you great app bundles week after week. We select the best power user apps from a broad range of suppliers and combine them into great deals. These are the highest quality apps from the best publishers, at great prices.

Whether you are interested in gaming or graphics design, software development or media production - we have the bundle for you. Each app bundle is designed to compliment the others, delivering you an exciting take on a scene.

Favourites

- Hype by Tumult
- Webstorm by Idea
- · Sublime, by sublimetext.com
- Desktop Utility by Sweet Productions

The header is now red.

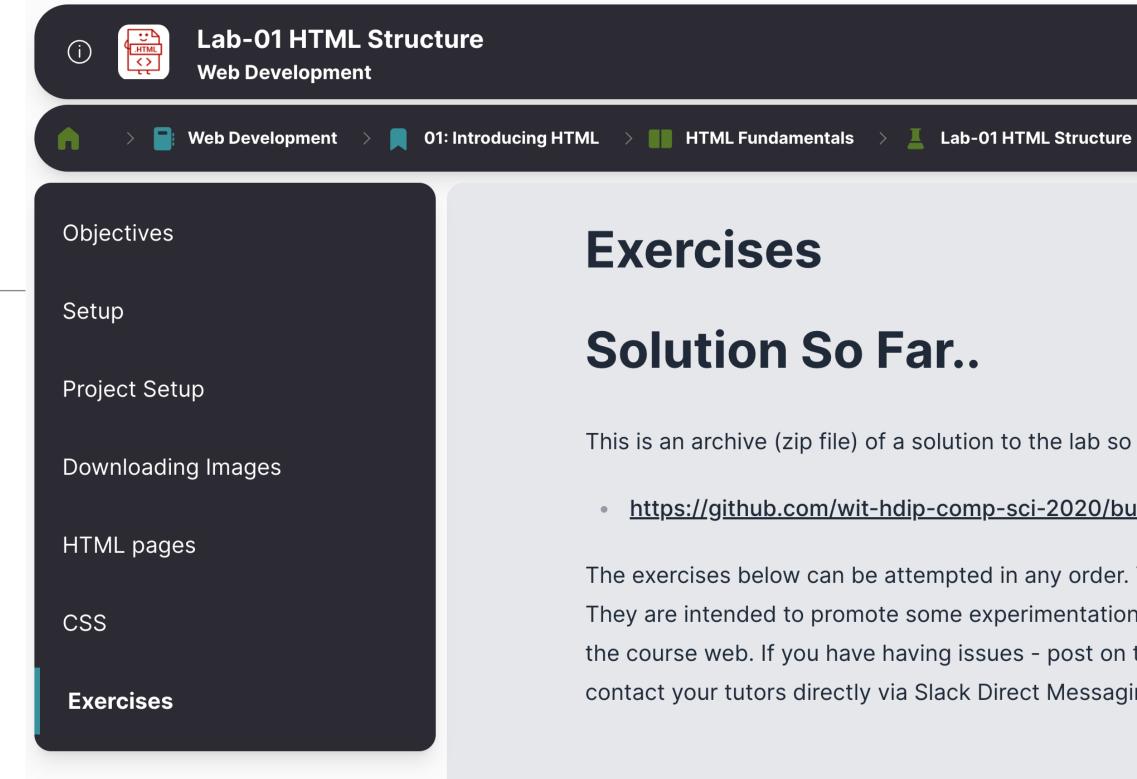
Remove the css rule you have just introduced and replace it with this one:

```
body {
  font-family: sans-serif;
}
```

Refresh the browser view - and verify visually that the font has changed. If you are finding it hard

Exercises

- To assist on reflection and independent learning.
- Not essential you attempt all of them (yet)
- Select a few that interest you or that you have time to work on



Exercises

Solution So Far...

This is an archive (zip file) of a solution to the lab so far:

https://github.com/wit-hdip-comp-sci-2020/bundle-store/releases/tag/lab.01.end

The exercises below can be attempted in any order. You may not have time to complete them all. They are intended to promote some experimentation on your part, and need not be submitted to the course web. If you have having issues - post on the slack "web-development" channel, or contact your tutors directly via Slack Direct Messaging.

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Exercise 1: Zip Archive

Download the "Source Code" from the above link. This is a zipped archive of the completed lab. See if you can uncompress (unzip) the archive. This can usually be accomplished just by double clicking it. The unzipped archive will be contained in a folder called "bundle-store". Now, relocate (drag/drop perhaps) this unzipped archive to somewhere else on your workstation. Perhaps consider creating a new folder called "solutions" inside the "web-development" folder, and place the solution in there.

Open the solution project, both in Sublime and a browser.

Exercise 2: Index.html

Just to get used to the editor, create a few more new apps in the 'apps.html', perhaps you can locate content from some web source (including images). For instance here:

• https://setapp.com/apps







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