



## HTML : Nesting & Blocks

### HTML: Nesting & Blocks



Correct & incorrect  
nesting. Block, inline  
elements and line breaks

# Some Key Concepts

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



# Agenda

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- Nesting
- Line break, Block & Inline Elements

# Nesting

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

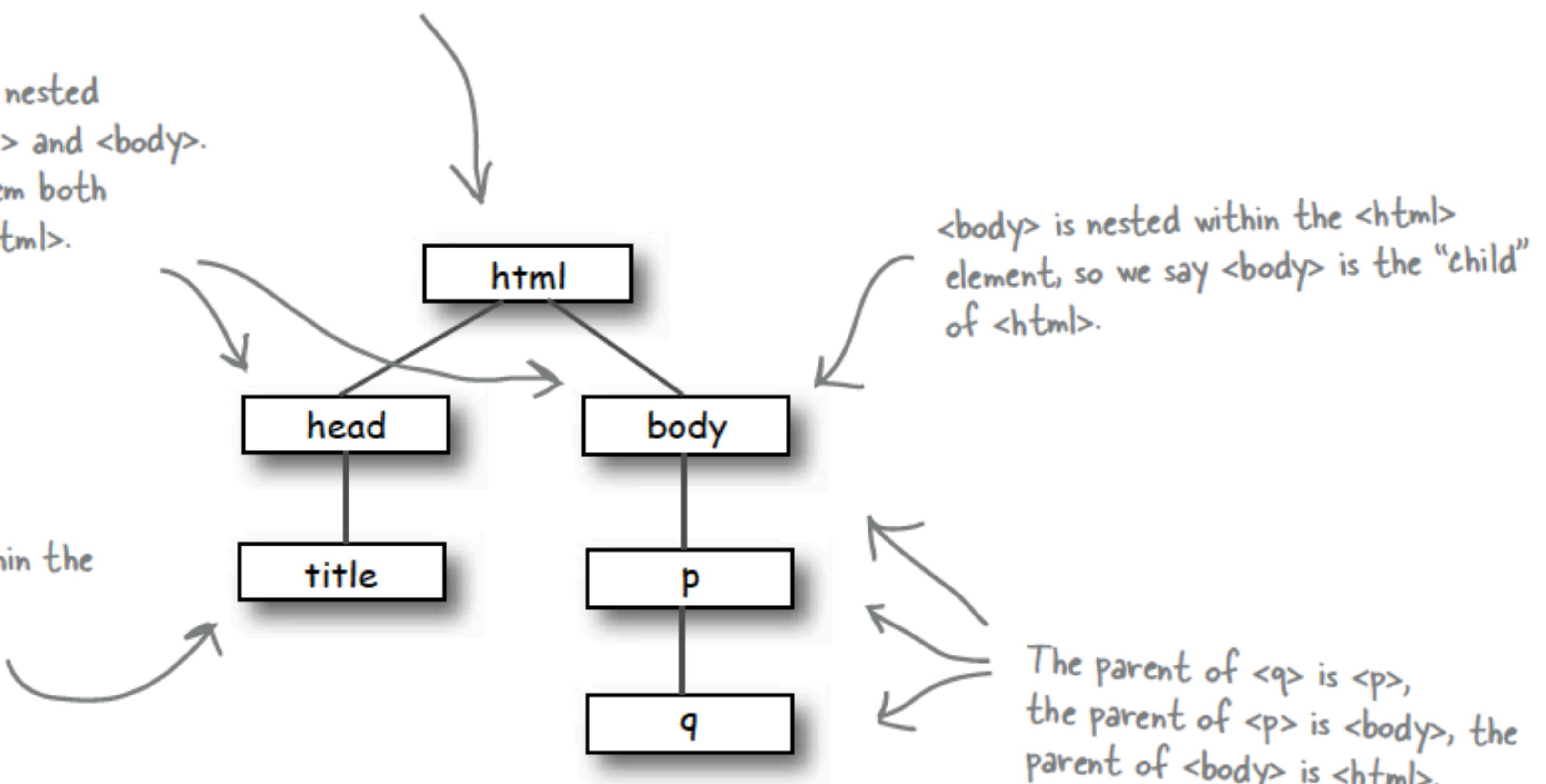


```
<html>
  <head>
    <title>Musings</title>
  </head>
  <body>
    <p>
      To quote Buckaroo,
      <q>The only reason
        for time is so
        that everything
        doesn't happen
        at once.</q>
    </p>
  </body>
</html>
```

# Nesting - Tree Structure

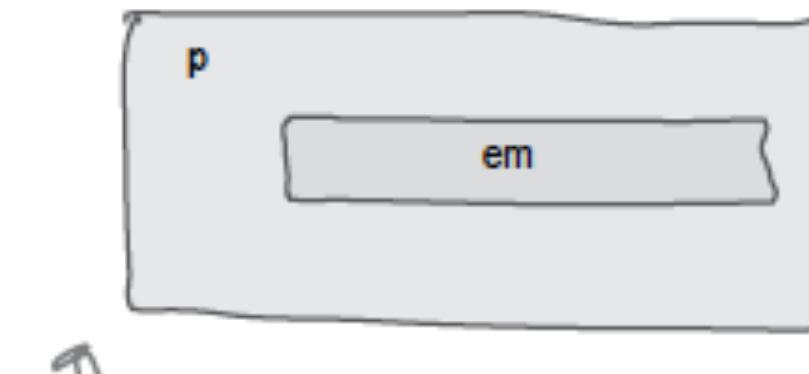
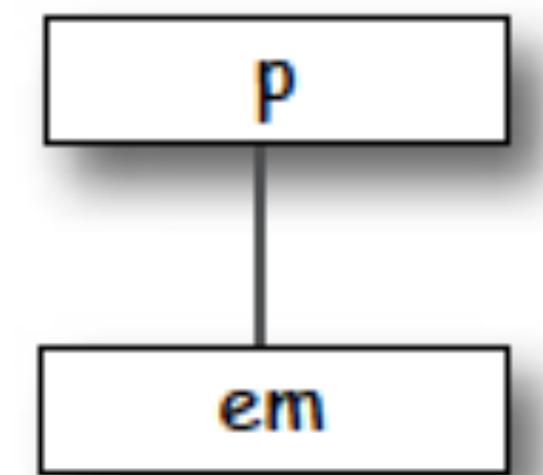
`<html>` is always the element at the root of the tree.

`>` has two nested elements: `<head>` and `<body>`. You can call them both "children" of `<html>`.



# Nesting can be Incorrect!

```
<p>I'm so going to blog <em>this</em></p>
```



Good

```
<p>I'm so going to blog <em>this</p></em>
```

?



Bad

# Agenda

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- Nesting
- Line break, Block & Inline Elements

## Line breaks

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there are no  
**Dumb Questions**

**Q:** 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>
<p>
    I saw some Burma Shave style signs on the
    side of the road today:
</p>
<blockquote>
    Passing cars, <br>
    When you can't see, <br>
    May get you, <br>
    A glimpse, <br>
    Of eternity. <br>
</blockquote>
<p>
    I definitely won't be passing any cars.
</p>
```

Add a `<br>` element to any line  
when you want to break the  
flow and insert a "linebreak."

# Line Breaks

Each line now has a  
linebreak after it.

Chance, CO, Why, AZ and Truth or Consequences, NM.

**July 14, 2012**

I saw some Burma Shave style signs on the side of the road today:

Passing cars,  
When you can't see,  
May get you,  
A glimpse,  
Of eternity.



I definitely won't be passing any cars.

**June 2, 2012**



# Line Breaks

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

# Block vs Inline Elements

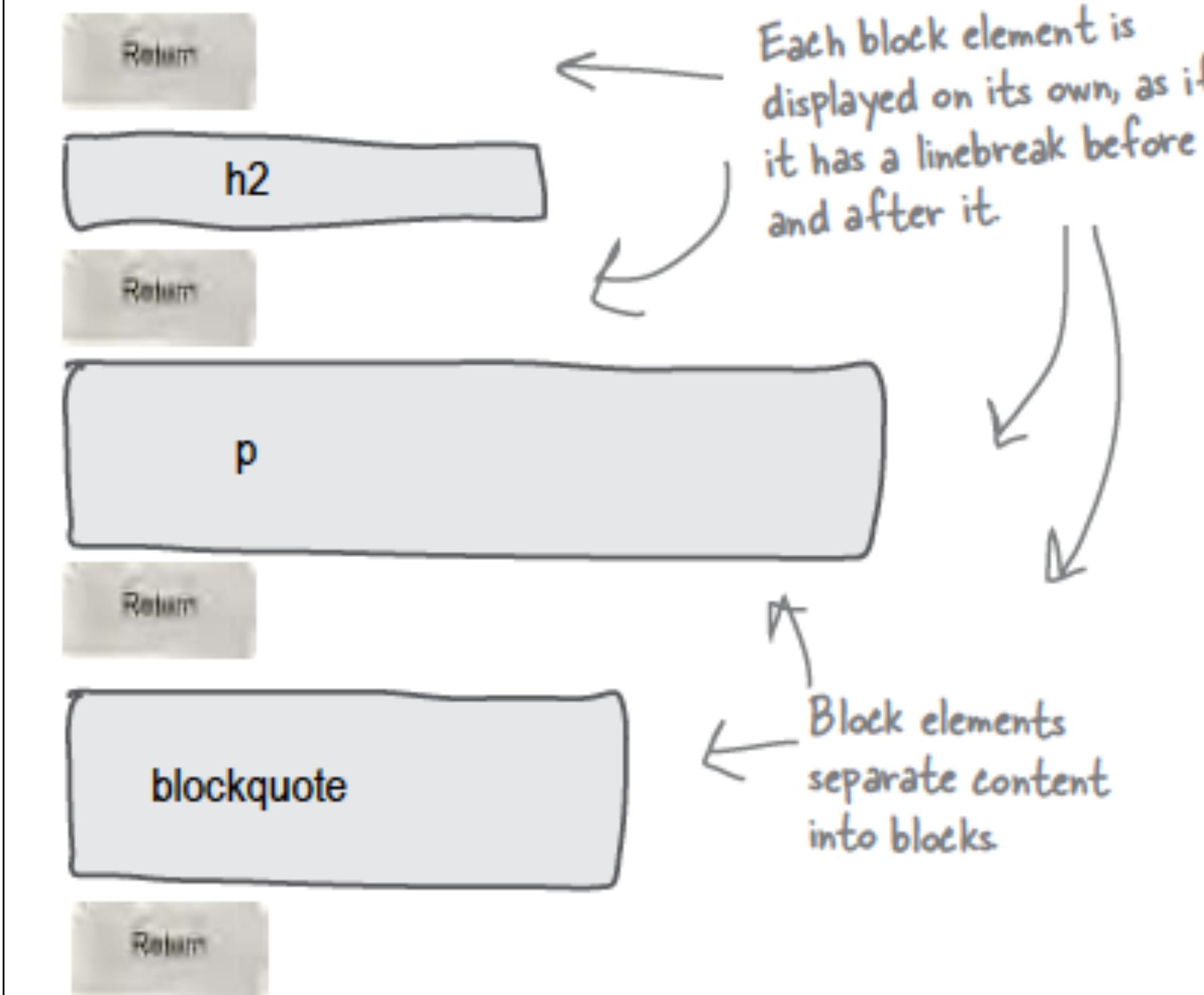
---

- 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.”

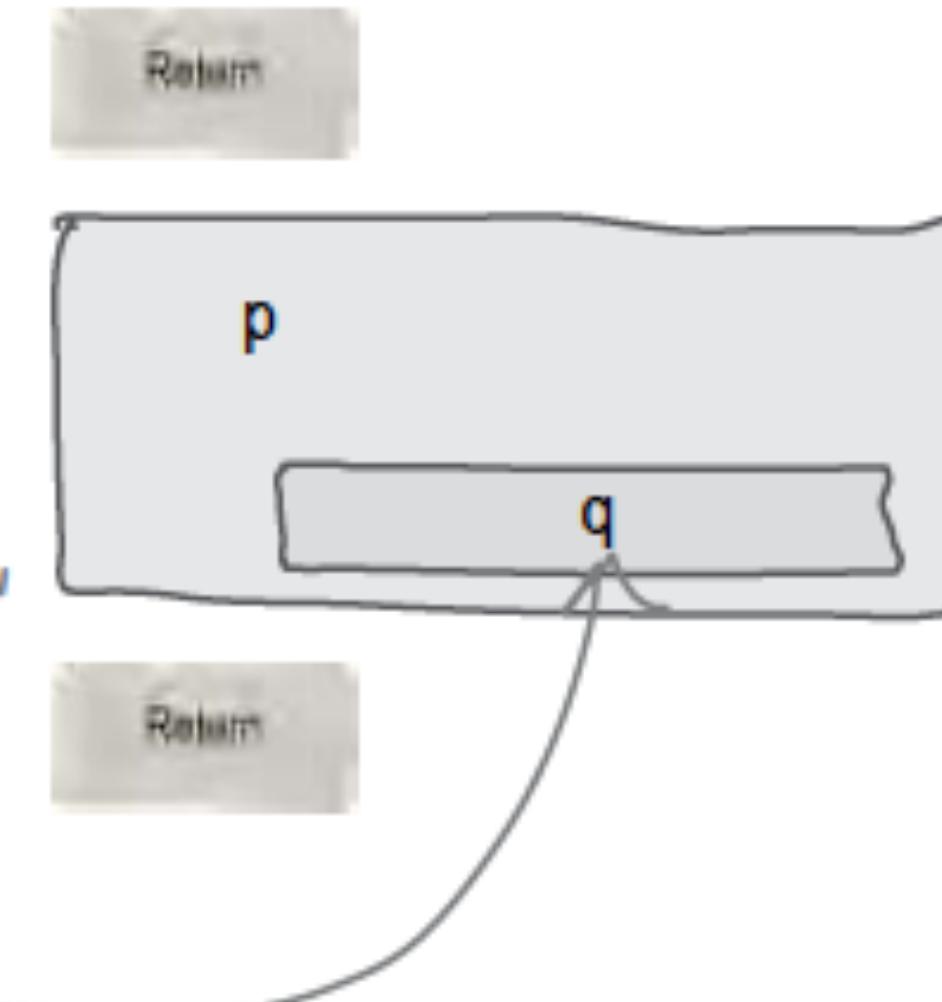
# Examples

- Block - h1, h2, p, blockquote



- Inline - a, em, q

<q> on the other hand, like all inline elements, is just displayed in the flow of the paragraph it's in.



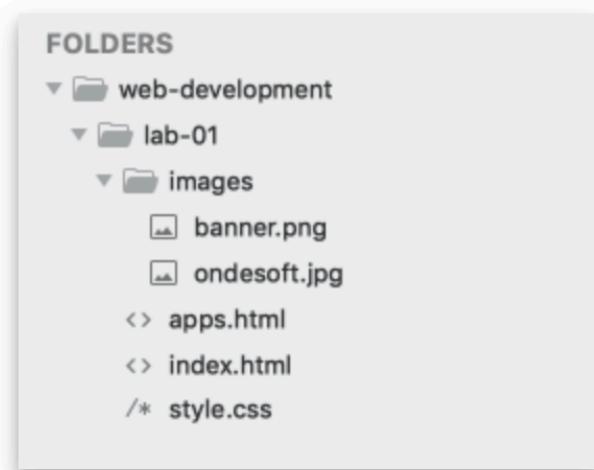
# Labs

## 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 mobile 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:

### index.html

```
<!DOCTYPE HTML>
<html>
  <head>
    <title>Bundle APP Store</title>
  </head>
  <body>
    
    <h1>Welcome to the App Bundle Store</h1>
    <p>
      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.
    </p>
    <p>
      Whether you are interested in gaming or graphics design, software development or media production - we have the bundle for you. Each <a href="apps.html">app bundle</a> is designed to compliment the others, delivering you an exciting take on a scene.
    </p>
    <h2>Favourites</h2>
    <ul>
      <li>Hype by Tumult</li>
      <li>Webstorm by Idea</li>
      <li>Sublime, by sublimetext.com</li>
      <li>Desktop Utility by Sweet Productions</li>
    </ul>
  </body>
</html>
```

### apps.html

```
<!DOCTYPE HTML>
<html>
  <head>
    <title>Bundle APP Store</title>
  </head>
  <body>
    
    <h3>Freebie</h3>
    <p>
      Stacksocial just published its so called Free Ondesoft Mac Tool Bundle, which contains 5 apps from Ondesoft. The bundle is worth $146 will be probably available only a couple of days so you'd better hurry up to get it.
    </p>
    <p>
```

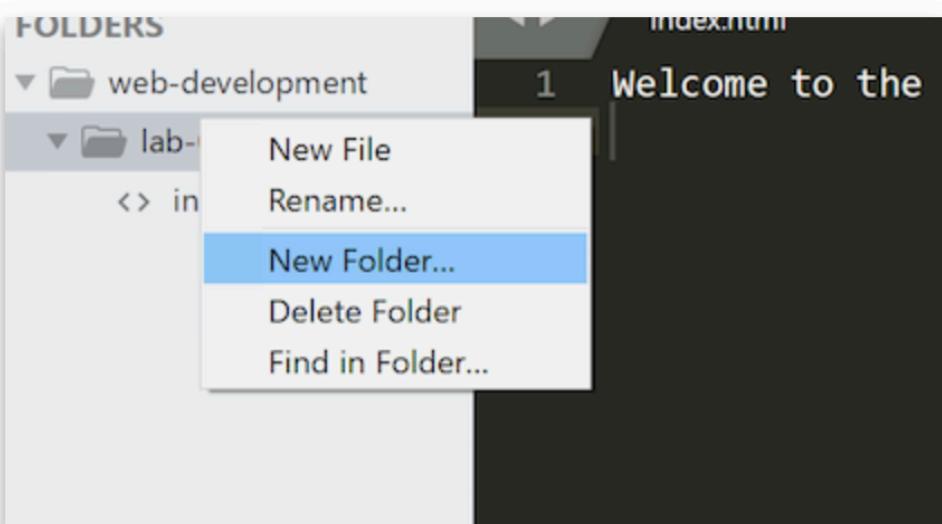
Steps

Instructions for each step

## Typical Lab Step:

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

All you need to do is right-click on the "lab-01" folder in sublime, and select "New Folder" from the context menu - name the folder "images"

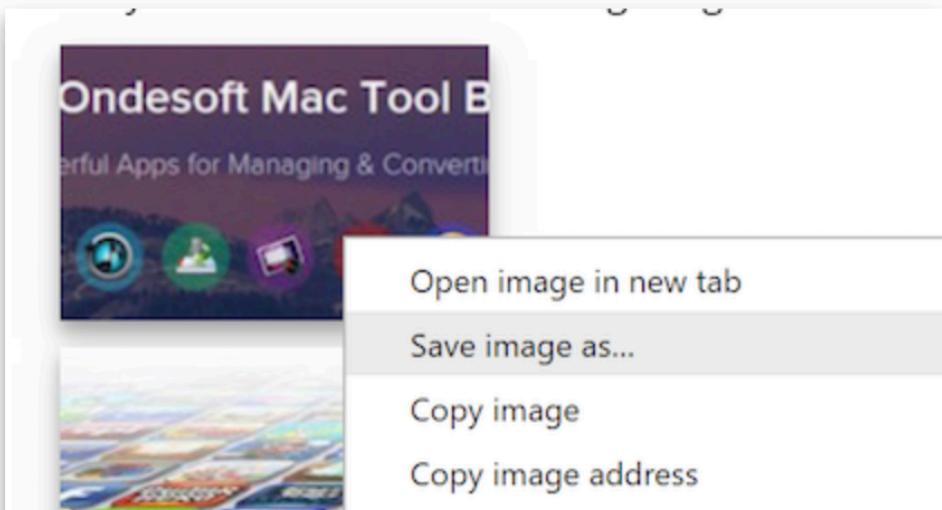


### Image Library

Below are two images:



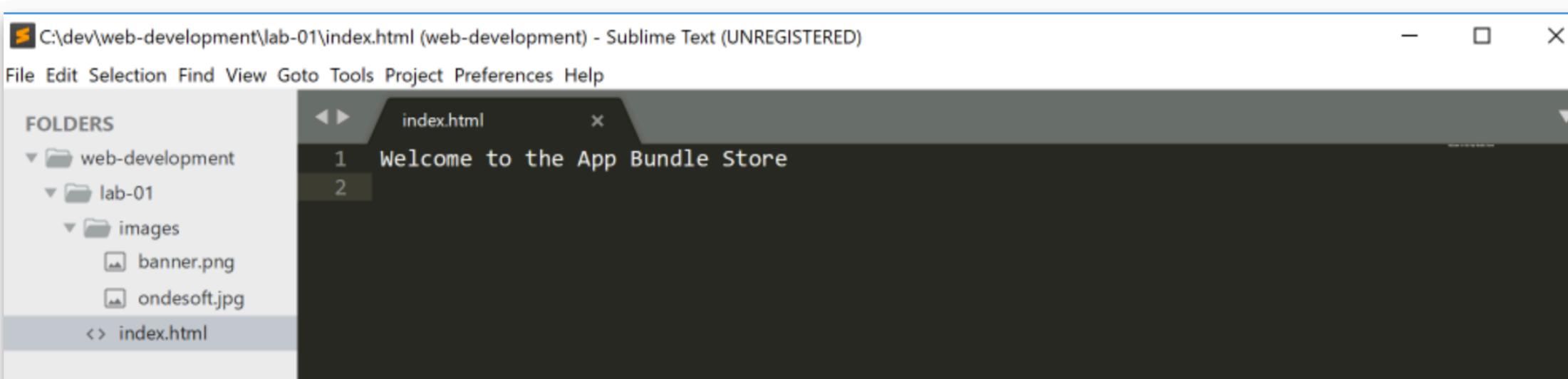
Right click on each one of these now (in the browser you are reading this on) and select "Save Image As".



It brings up a dialog inviting you to locate the folder, and name the file, you are about to save.

Your task now is to locate the "web-development/lab-01/images" folder you have just created, and save the files in there. The files will have a default name, which you can keep.

If all of the above goes as expected, your sublime window should look like this:



# 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-2019/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.

#### 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://mac-bundles.com>

Try to identify and replicate the way the code is indented in the existing content.

#### Exercise 3: New pages

Incorporate content into a new `directions.html` page. It can contain any content you think would be useful. Incorporate a link from index to this page.

#### Exercise 4: Link the CSS file to all pages

Currently you may not have the CSS file 'linked' to `app.html` or the `directions.html` page. i.e. only `index.html` is styled with the css rules you have defined. See if you can link the other pages now.

#### Exercise 4: HTML Reference

If you are finding initial contact with HTML a little challenging - this is an excellent starter resource to review:

- [https://developer.mozilla.org/en-US/docs/Learn/Getting\\_started\\_with\\_the\\_web/HTML\\_basics](https://developer.mozilla.org/en-US/docs/Learn/Getting_started_with_the_web/HTML_basics)

It is short read.

#### Exercise 5: Lists

In this lab you used the element `<ul>` in the index page.

Investigate the use of `<ol>`, find out the differences between these elements here:

- [https://developer.mozilla.org/en-US/docs/Learn/CSS/Styling\\_text/Styling\\_lists](https://developer.mozilla.org/en-US/docs/Learn/CSS/Styling_text/Styling_lists)