Intro to Web Development

Class 1: HTML

Languages of the Web

$HTML \leftarrow Learning this today!$

- HyperText Markup Language
- Adds static content (text, images, links) to a web page.
- Every website uses HTML! It's what makes the text appear on the page.

CSS

- Cascading Style Sheets
- Adds styling (color, fonts, spacing) to a web page.
- CSS will make your web page look pretty!

Javascript

- Adds dynamic content (drop-down, animation) to a web page.
- Modifies the HTML & CSS content on the fly.

The HTML code (in blue) is made up of characters that live inside angled brackets — these are called HTML elements.

Elements are usually made up of two tags: an opening tag and a closing tag. (The closing tag has an extra forward slash in it.)

Each HTML element tells the browser something about the information that sits between its opening and closing tags.

```
<html>
 <body>
   <h1>This is the Main Heading</h1>
   This text might be an introduction to the rest of
      the page. And if the page is a long one it might
      be split up into several sub-headings. 
   <h2>This is a Sub-Heading</h2>
   Many long articles have sub-headings so to help
      you follow the structure of what is being written.
      There may even be sub-sub-headings (or lower-level
      headings).
   <h2>Another Sub-Heading</h2>
   Here you can see another sub-heading.
 </body>
</html>
```

<HTML> Closing & **Ending Tags** headings).

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  Ending Tags
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                      Here you can see another sub-heading.
                    </body>
                   /html>
```

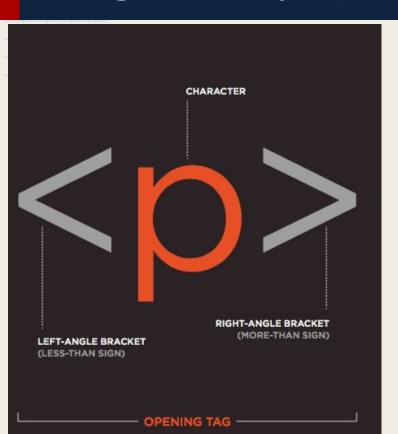
<h1> Closing & Ending Tags

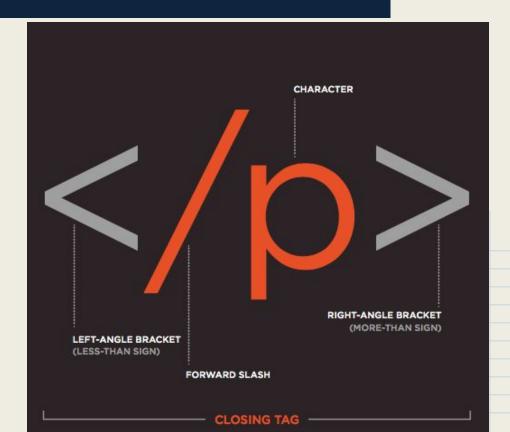
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Closing & Ending Tags

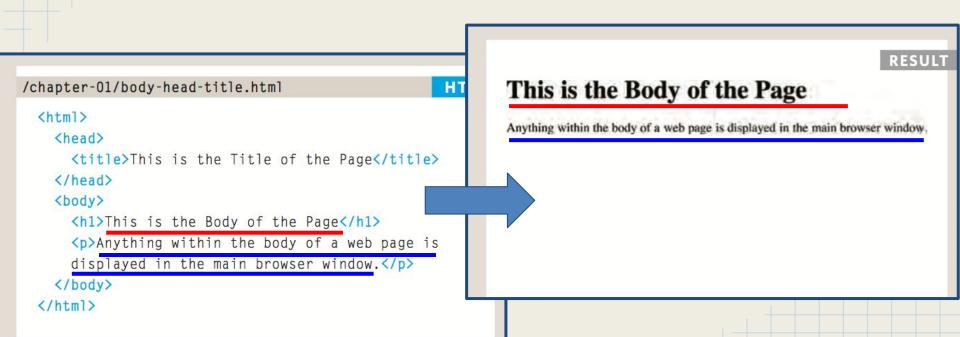
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Tags: Every open comes with a close

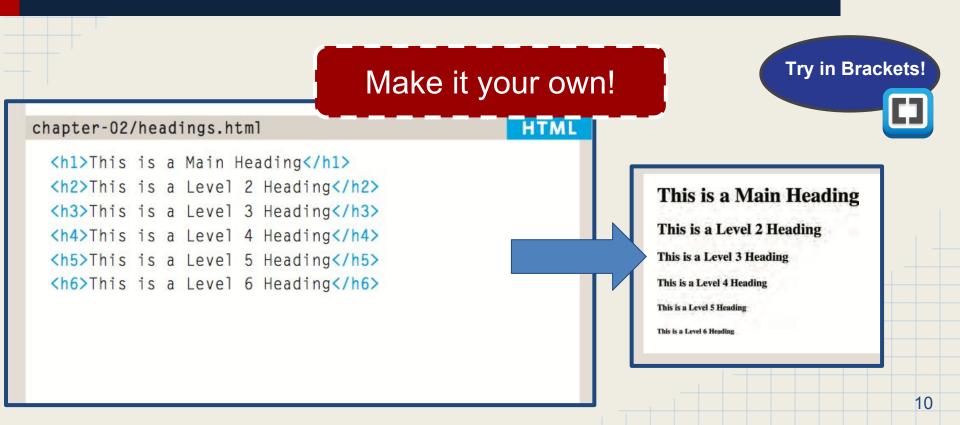




HTML: From Code to a Webpage



Headings: <h1> through <h6>



Paragraphs: tags

Make it your own!

Try in Brackets!



HTML

cnapter-U2/paragraphs.ntml

- A paragraph consists of one or more sentences that form a self-contained unit of discourse. The start of a paragraph is indicated by a new line.
- Text is easier to understand when it is split up into units of text. For example, a book may have chapters. Chapters can have subheadings. Under each heading there will be one or more paragraphs.

ESULT

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Text is easier to understand when it is split up into units of text. For example, a book may have chapters. Chapters can have subheadings. Under each heading there will be one or more paragraphs.

: Make it Bold!

Make it your own!



chapter-02/strong.html

Beware: Pickpockets operate in
 this area.
This toy has many small pieces and is not
 suitable for children under five years old.

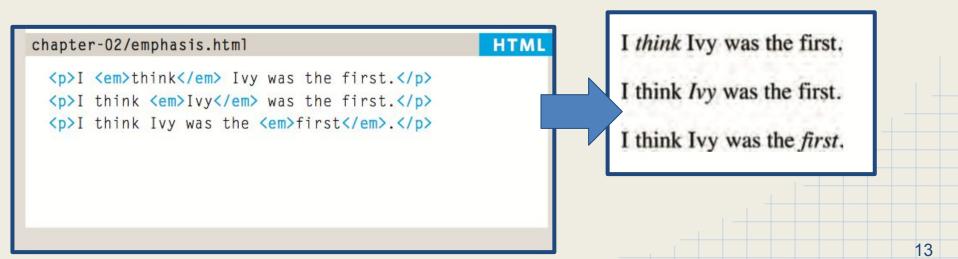
Beware: Pickpockets operate in this area.

This toy has many small pieces and is not suitable for children under five years old.

 Emphasis: Make it Stand Out!

Make it your own!

Try in Brackets!



Ordered Lists: Provide some steps!

Make it your own!





ul> unordered Lists: Provide some info!

Make it your own!

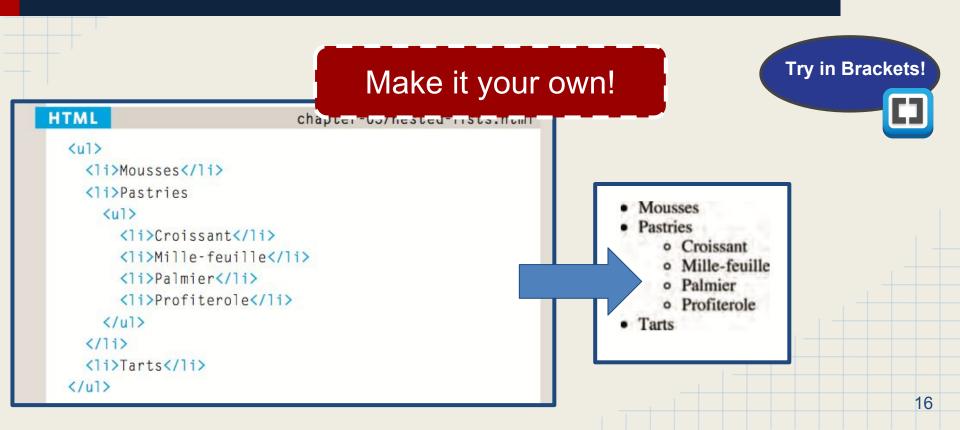


```
HTML chapter-03/unordered-lists.html

\(\)lkg King Edward potatoes
\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li>\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(\)li\(
```

- 1kg King Edward potatoes
- 100ml milk
- 50g salted butter
- Freshly grated nutmeg
- Salt and pepper to taste

Nested Lists: Provide Substeps!



<html> <head> <title>Lists</title> </head> <body> <h1>Scrambled Eggs</h1> Eggs are one of my favourite foods. Here recipe for deliciously rich scrambled eggs. <h2>Ingredients</h2> <u1> <1i>2 eggs</1i> 1i>1tbs butter 2tbs cream </11> <h2>Method</h2> <01> Melt butter in a frying pan over a medium heat Gently mix the eggs and cream in a bowl Once butter has melted add cream and eggs Using a spatula fold the eggs from the edge of the pan to the center every 20 seconds (as if you are making an omelette) When the eggs are still moist remove from the heat (it will continue to cook on the plate until served) </01> </body> </html>

<u>Daily Project:</u> Make it your own!



Scrambled Eggs

Eggs are one of my favourite foods. Here is a recipe for deliciously rich scrambled eggs.

Ingredients

- 2 eggs
- 1tbs butter
- 2tbs cream

Method

- 1. Melt butter in a frying pan over a medium heat
- 2. Gently mix the eggs and cream in a bowl
- 2. Once butter has malted add groom and ag
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- Using a spatula fold the eggs from the edge of the pan to the center every 20 seconds (as if you are making an omelette)
- 5. When the eggs are still moist remove from the heat (it will continue to cook on the plate until served)