

# **FRONT END WEB DEVELOPMENT**

## **CLASS 01: HTML BASICS**

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Software Engineer, General Assembly

# OBJECTIVES

- › Meet your instructional team
- › Meet each other
- › What will you experience?
- › Introduction to web development
- › Introduction to HTML

# MEET YOUR INSTRUCTIONAL TEAM

# JAMES WILLOCK

## WHAT I'VE DONE

- › Software Engineer, General Assembly
- › Instructor, General Assembly
- › Designer, Canonical (Ubuntu)
- › Designer, Erskine Design

## WHAT I LIKE

- › The music of Phil Collins
- › Bicycles
- › Formula 1 (if you talk to me about this we'll be friends forever)

# **DANIEL GILLESPIE @GILLESPIUM**

## **WHAT I'VE DONE**

- › Tech Lead, Little Birdie Co
- › Instructor, General Assembly
- › Front End Developer, Byng Systems

## **WHAT I LIKE**

- › Brazilian Jiu Jitsu
- › Trap Music
- › Arsenal FC

# **CJ PONTI @CJPONTI**

## **WHAT I'VE DONE**

- WDI Alumni
- Software Developer, Glow Digital Media

## **WHAT I LIKE**

- Burgers
- Beer
- Starbucks

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**FRONT END WEB DEVELOPMENT**

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# **EXPERIENCE**

# **LEARNING**

**PROJECTS**

**ONE-ON-ONES**

**LABS**

**HOMEWORK**

**EXERCISES**

**QUIZZES**

**VIDEOS**

**CODE ALONGS**



TOPICS

RESPONSIVE DESIGN

FOUNDATION

LAYOUT

HTML

CSS

JAVASCRIPT

TYPOGRAPHY

FRAMEWORKS

SEPARATION OF CONCERNS

DOMAINS

LIBRARIES

JQUERY

BOOTSTRAP

FILE SYSTEMS

HOSTING

FORMS

# **INTRO TO WEB DEVELOPMENT**

### FRONT END

- Code is rendered on the client (your web browser)
- Describes content, presentation and behaviour
- Examples: HTML, CSS, JavaScript

### BACK END

- Code is interpreted on the server
- Handles state, data stores, other business logic
- Passes content to the front-end before rendering in the browser
- Examples: Ruby, Python, PHP

FRONT END

Abbreviation	Name	Version	Notes
HTML	Hyper Text Markup Language	5.0	Markup language we use to add semantics to our content
CSS	Cascading Style Sheets	3	Simple stylesheet language that describes the presentation of our HTML
JS	JavaScript	1.8.5	Scripting language used to enhance user interactions and site behaviour

BACK END

Language	Released	Version	Notes
Ruby	1995	2.1.1	Written for “developer happiness” by Yukuhiro Matsumoto. <i>“Matz is Nice So We Are Nice.”</i>
Python	1991	3.3.5	High-level programming language written for readability and terseness by Guido van Rossum.
PHP	1995	5.5.10	High-level language designed for web development, originally as a set of CGI scripts, by Rasmus Lerdorf. Decreasing in popularity.

# HTML: HYPertext MARKUP LANGUAGE

# WHAT IS THIS HTML THING?

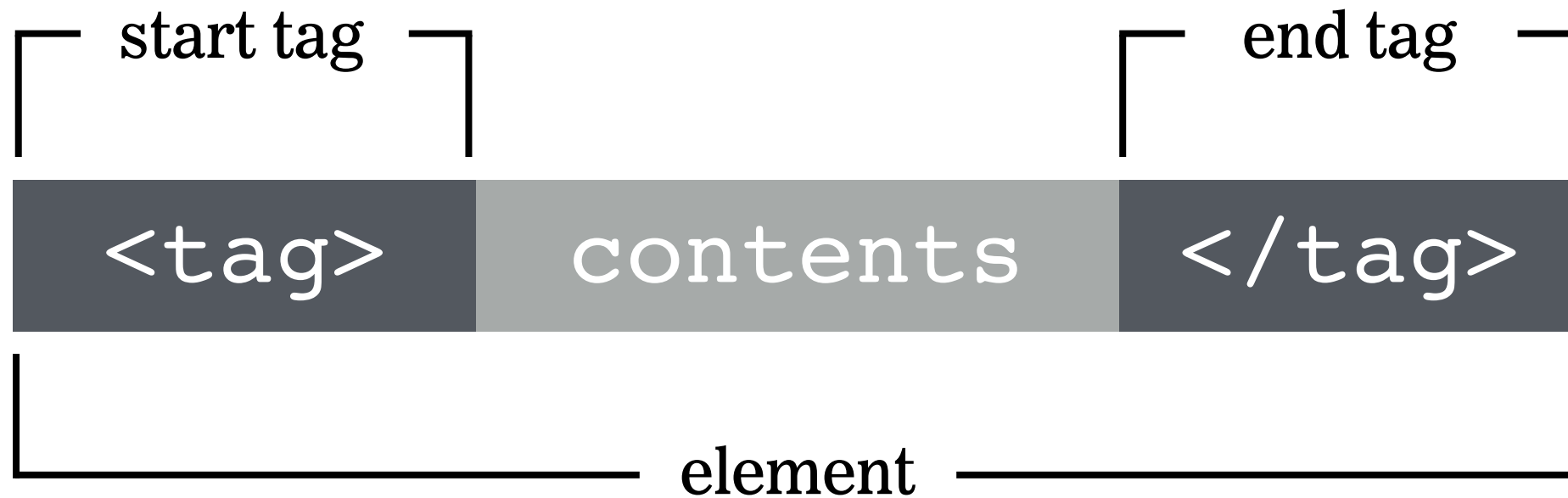
- It describes our page's content in a way that the web browser can understand and derive semantics from
- It's made up of "tags" that surround pieces of our content to describe their context
- It's hierarchical – tags can contain other tags
- Part of mastering HTML is understanding which tags should be used for which types of content

# **CODEALONG: GENERAL ASSEMBLY PRESS RELEASE**

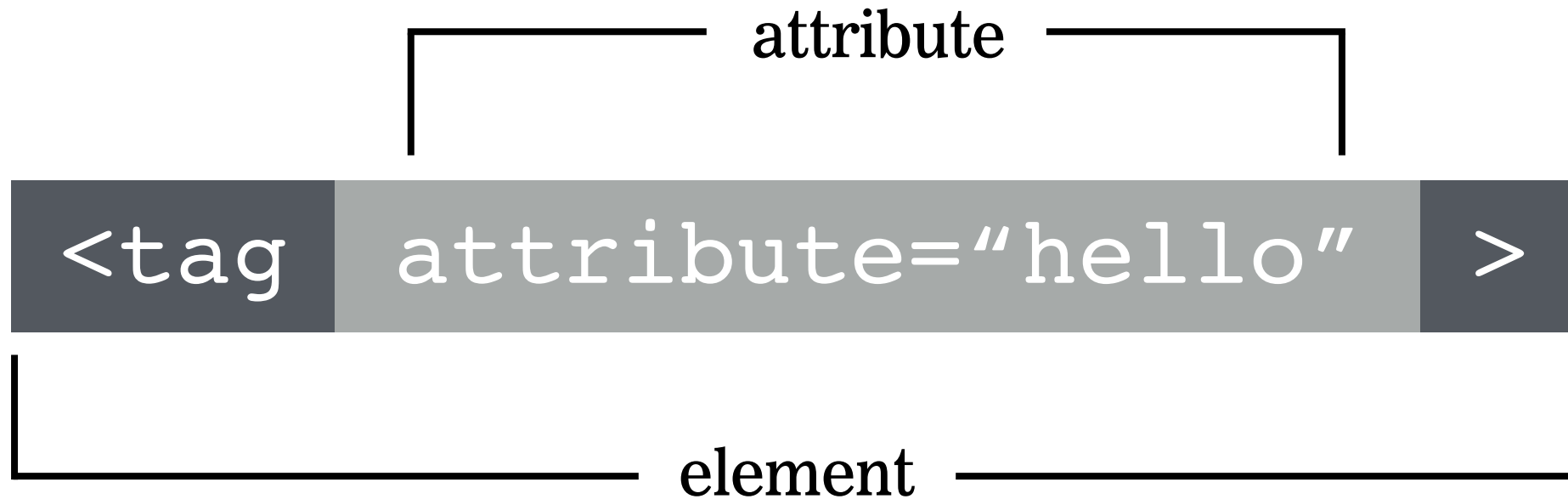


# **HTML REVIEW**

## TAG SYNTAX



## SELF-CLOSING TAG SYNTAX



## DOCUMENT TAGS

Tag	Name	Usage	Notes
<b>doctype</b>	Doctype	<code>&lt;!doctype html&gt;</code>	Tells the browser that the document is HTML5. Should be the first tag in the document
<b>html</b>	HTML	<code>&lt;html&gt; ... &lt;/html&gt;</code>	Parent element for all other elements of the page
<b>head</b>	Head	<code>&lt;head&gt; ... &lt;/head&gt;</code>	Parent element of all metadata – anything here doesn't get rendered to the screen
<b>body</b>	Body	<code>&lt;body&gt; ... &lt;/body&gt;</code>	Parent element of page content – anything here can get rendered to the screen

# META TAGS

These tags should all live inside the `<head>` element.

Tag	Name	Usage	Notes
title	Title	<code>&lt;title&gt;My Page&lt;/title&gt;</code>	Sets the title for the web page. Rendered by the web browser in the tab, and by search engines
meta	Meta	<code>&lt;meta charset="utf8"&gt;</code>	Can set various metadata attributes of the page, such as character set.

## CONTENT TAGS

These tags should all live inside the `<body>` element.

Tag	Name	Usage
<b>p</b>	Paragraph	<code>&lt;p&gt;Hello, this is a paragraph.&lt;/p&gt;</code>
<b>code</b>	Code	<code>&lt;code&gt;bleep, bloop&lt;/code&gt;</code>
<b>a</b>	Anchor	<code>&lt;a href="http://google.com"&gt;Google&lt;/a&gt;</code>
<b>strong</b>	Strong	<code>&lt;strong&gt;I'm pretty bold.&lt;/strong&gt;</code>
<b>em</b>	Emphasised	<code>&lt;em&gt;I'm pretty sarcastic.&lt;/em&gt;</code>

# HEADING TAGS

These tags should all live inside the `<body>` element.

Tag	Name	Usage
<b>h1</b>	Heading Level 1	<code>&lt;h1&gt;First level heading.&lt;/h1&gt;</code>
<b>h2</b>	Heading Level 2	<code>&lt;h2&gt;Second level heading.&lt;/h2&gt;</code>
<b>h3</b>	Heading Level 3	<code>&lt;h3&gt;Third level heading.&lt;/h3&gt;</code>
<b>h4</b>	Heading Level 4	<code>&lt;h4&gt;Fourth level heading.&lt;/h4&gt;</code>
<b>h5</b>	Heading Level 5	<code>&lt;h5&gt;Fifth level heading.&lt;/h5&gt;</code>
<b>h6</b>	Heading Level 6	<code>&lt;h6&gt;Sixth level heading.&lt;/h6&gt;</code>

# LISTING TAGS

These tags should all live inside the `<body>` element.

Tag	Name	Usage	Notes
<b>ul</b>	Unordered list	<code>&lt;ul&gt; ... &lt;/ul&gt;</code>	Its only direct children should be <code>&lt;li&gt;</code> tags
<b>ol</b>	Ordered list	<code>&lt;ol&gt; ... &lt;/ol&gt;</code>	Its only direct children should be <code>&lt;li&gt;</code> tags
<b>li</b>	List item	<code>&lt;li&gt;Bread&lt;/li&gt;</code>	Its parent should be one of <code>&lt;ul&gt;</code> or <code>&lt;ol&gt;</code>



# EXAMPLE HTML DOCUMENT

```
<!doctype html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <title>Page Title</title>
  </head>
  <body>
    <p>I'm the content.</p>
  </body>
</html>
```

# LAB: COOKIE RECIPE

# Q&A

# RESOURCES

- Read: The Guardian's [What is Front End Development?](#)
- Activity: [General Assembly's Dash](#)
- Video: [How The Internet Works in 5 Minutes](#)