MODULE 3: FRONT END

Introduction to HTML and CSS

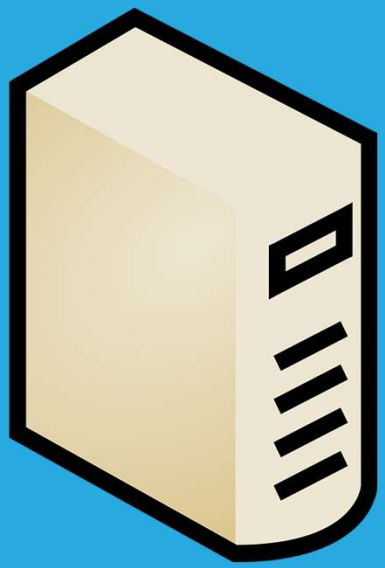
Welcome to Module 3!

Separation of Concerns

User interaction
UI, UX

Module 3

Business
Logic

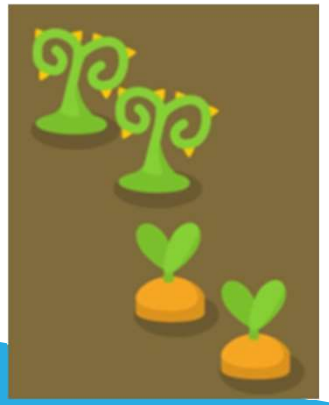


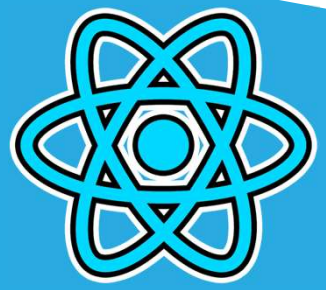
Persistent
Storage

Module 2

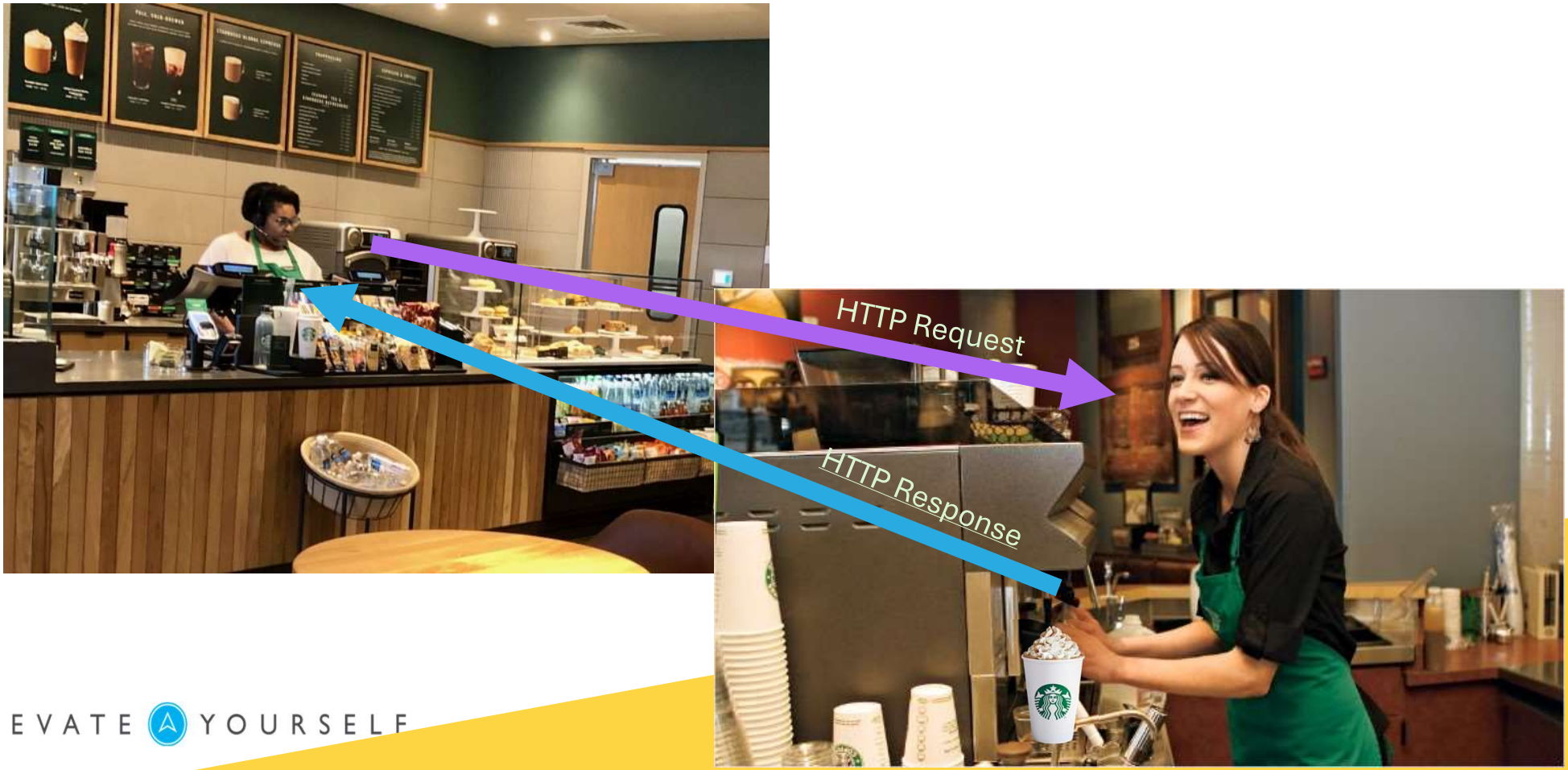
Welcome to Module 3!

- Front End
  - HTML
  - CSS
  - FlexBox
  - Grid
  - JavaScript
  - React

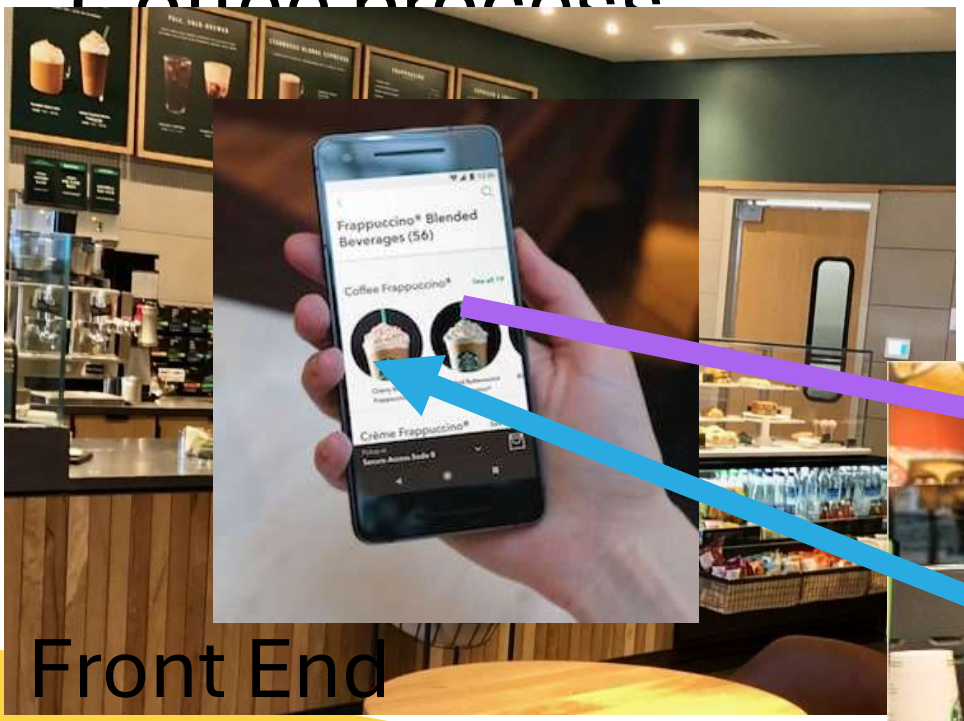




Coffee process



Coffee process



Front End

Back End

```
{
    "size":"venti"
    "description":"mocha"
    "whippedcream":true
}
```

Let’s talk HTML

- What does HTML stand for?
- HTML: Hypertext Markup Language
- “Paired” tags to indicate format

Paragraph Tag

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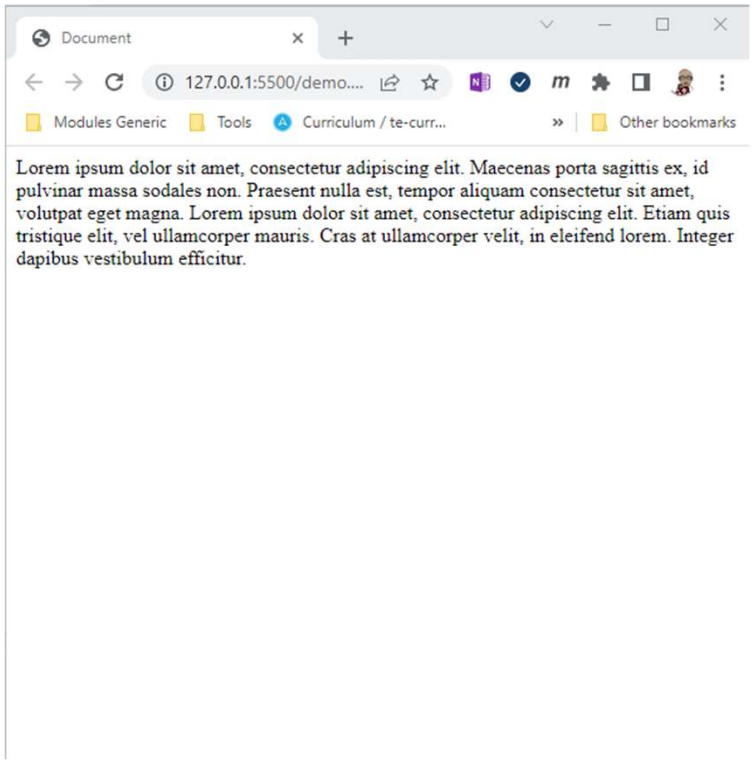
Paragraph Tag



Paragraph Tag

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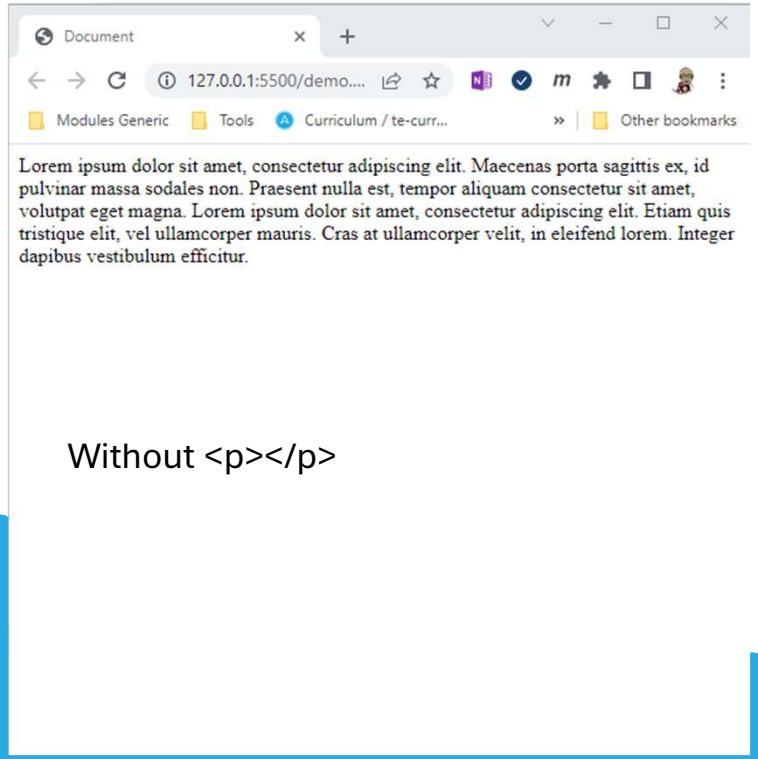
- Starting tag: ** **
- Ending Tag: ** **

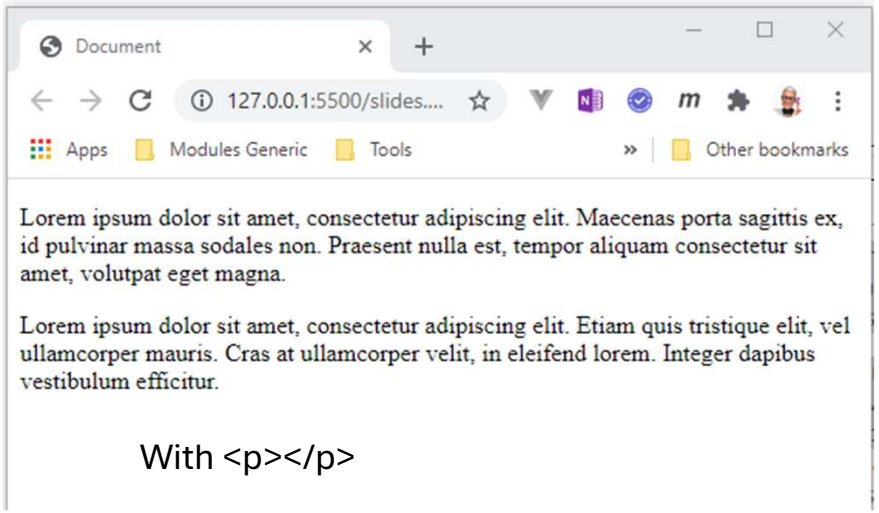
Paragraph Tag

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas porta sagittis ex, id pulvinar massa sodales non. Praesent nulla est, tempor aliquam consectetur sit amet, volutpat eget magna. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam quis tristique elit, vel ullamcorper mauris. Cras at ullamcorper velit, in eleifend lorem. Integer dapibus vestibulum efficitur.

Paragraph Tag



Without



With

Other Popular Formatting Tags

Headers

```
<h1>Heading 1</h1>
<h2>Heading 2</h2>
<h3>Heading 3</h3>
<h4>Heading 4</h4>
<h5>Heading 5</h5>
<h6>Heading 6</h6>
```

Bolding text

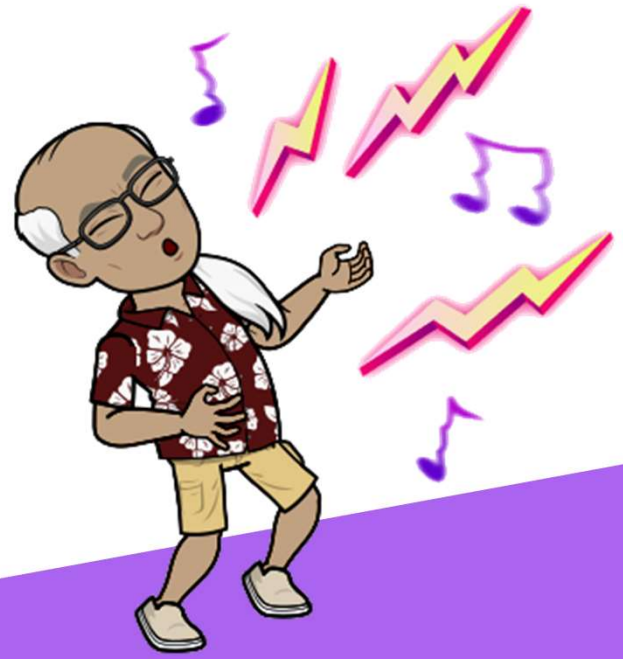
This is bold

Italicizing text

This is italicized text

Images

<img src="images/menu/lunch/sandwich.png" />



Semantic Tags

- Tags that group content together
  - <html>
  - <head>
  - <body>
  - <header>
  - <main>
  - <section>
  - <aside>
  - <nav>

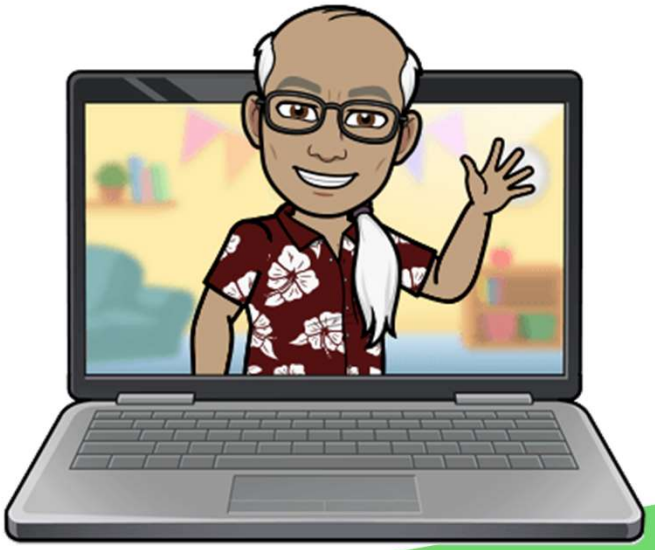
Interaction Tags

- Links/Anchors
  - <a href="https://www.techelevator.com>TE</a>
- Get User Input
  - <form method="POST" action="api/auction">
  - <label>
  - <input>
  - <button>

Simple HTML Document

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas porta sagittis ex, id pulvinar massa sodales non. Praesent nulla est, tempor aliquam consectetur sit amet, volutpat eget magna.</p> <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam quis tristique elit, vel ullamcorper mauris. Cras at ullamcorper velit, in eleifend lorem. Integer dapibus vestibulum efficitur. </p>
</body>
</html>
```

LET’S CODE!



CSS: Cascading Style Sheet

- CSS is the way we tell HTML how to format itself
- CSS can be included by:
  - inline on any element with a style attribute
  - within the document under a <style> element
  - external document reference with a <link href=> element

Styles applied

Inline:

```
<body style="background-color: green">
```

Within Document

```
<style>
    body {
        background-color: green;
    }
</style>
```

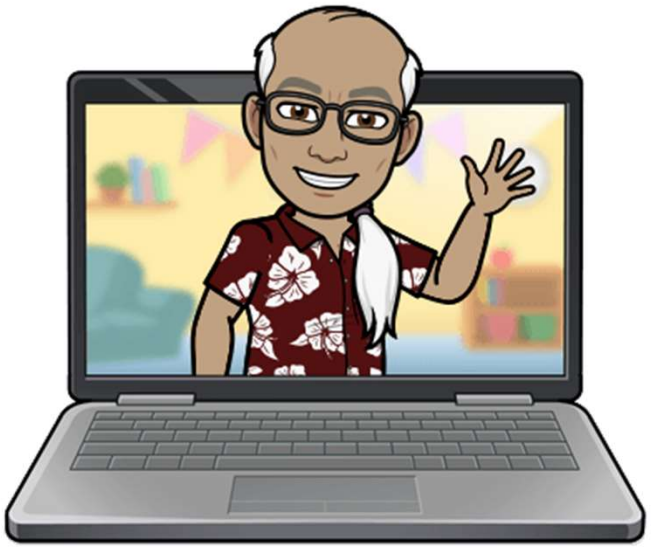
As external css file

```
<link  rel="stylesheet" href="css/mystyles.css" />
```

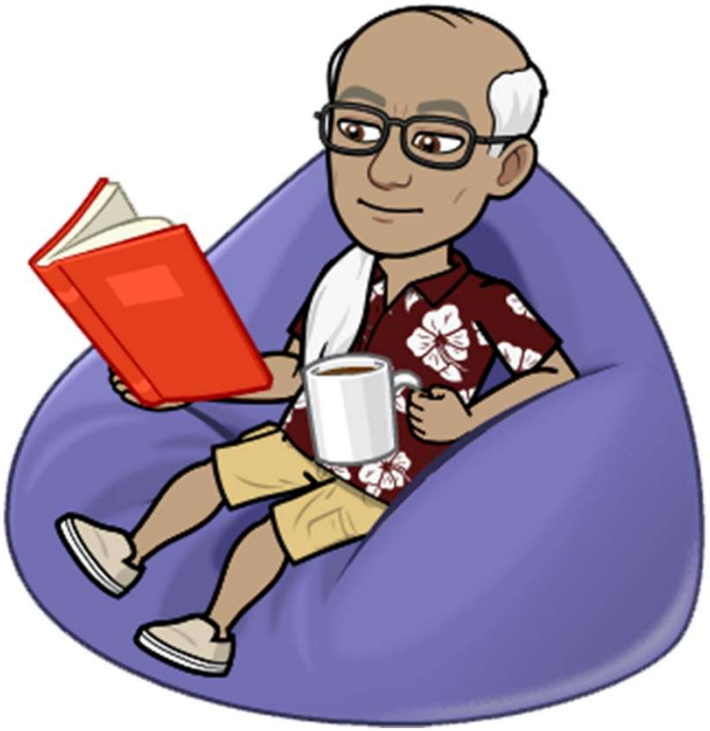
Cascading Precedence

- Inline > In Document > External Sheet

LET’S CODE!



WHAT QUESTIONS DO YOU HAVE?

Reading for tonight:

Styling with CSS