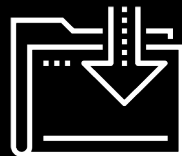


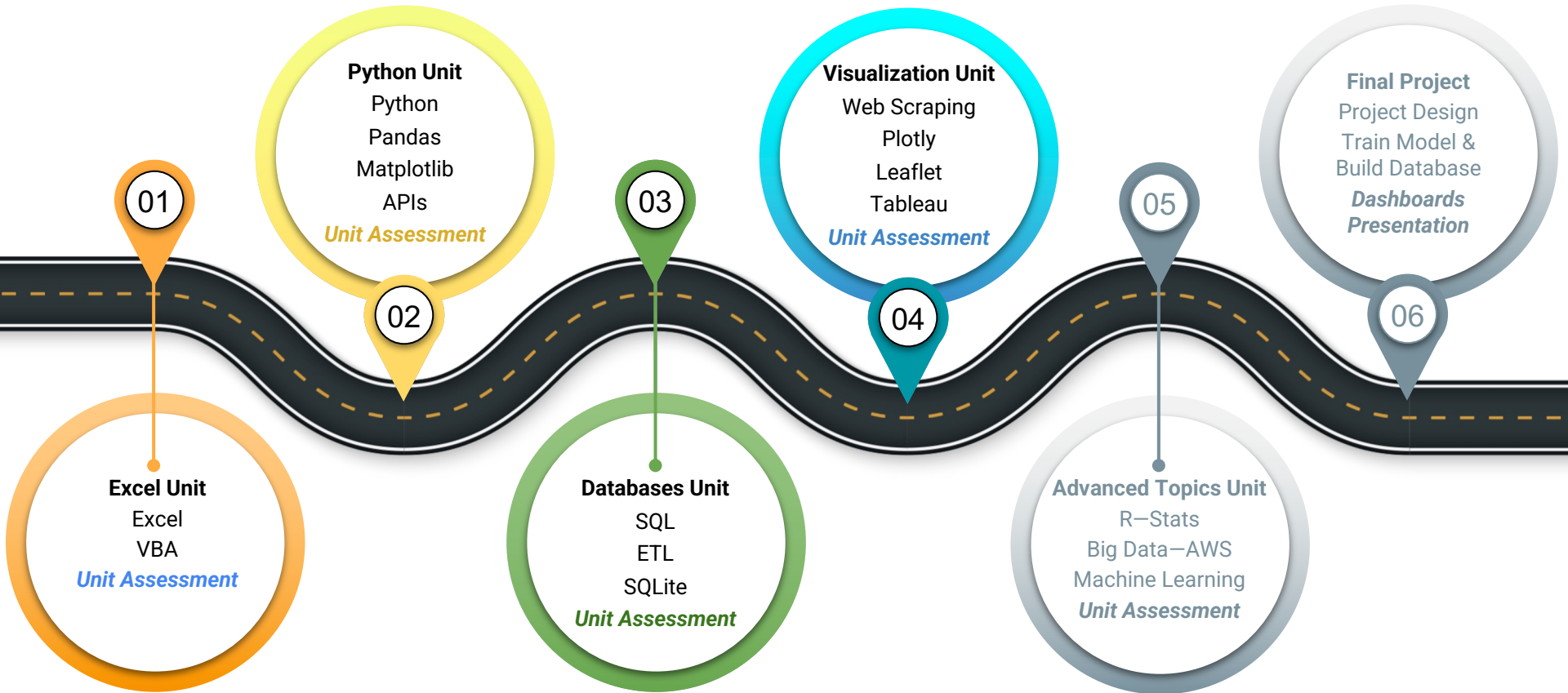


Web Scraping With HTML & CSS

Data Boot Camp
Lesson 11.1



The Big Picture



Bootcamp Pointers

If you're struggling with this module, remember that you have the following resources to help you:



Module 11

This Week: Web Scraping with HTML & CSS

This Week: Web Scraping with HTML & CSS

By the end of this week, you'll know how to:



Identify the basic structure of an HTML document



Create a basic web page using HTML



Use CSS selectors to style HTML elements



Use BeautifulSoup to extract information from a web page



Use Splinter to automate browser actions



Store scraped information in a Python data structure



This Week's Challenge

Using the skills learned throughout the week, scrape and analyze information from Mars websites.



Career Connection

How will you use this module's content in your career?

Module 11

How to Succeed This Week

Module 11

Today's Agenda

Today's Agenda

By completing today's activities, you'll learn the following skills:

01

Create a basic HTML document

02

Scrape a HTML document with BeautifulSoup

03

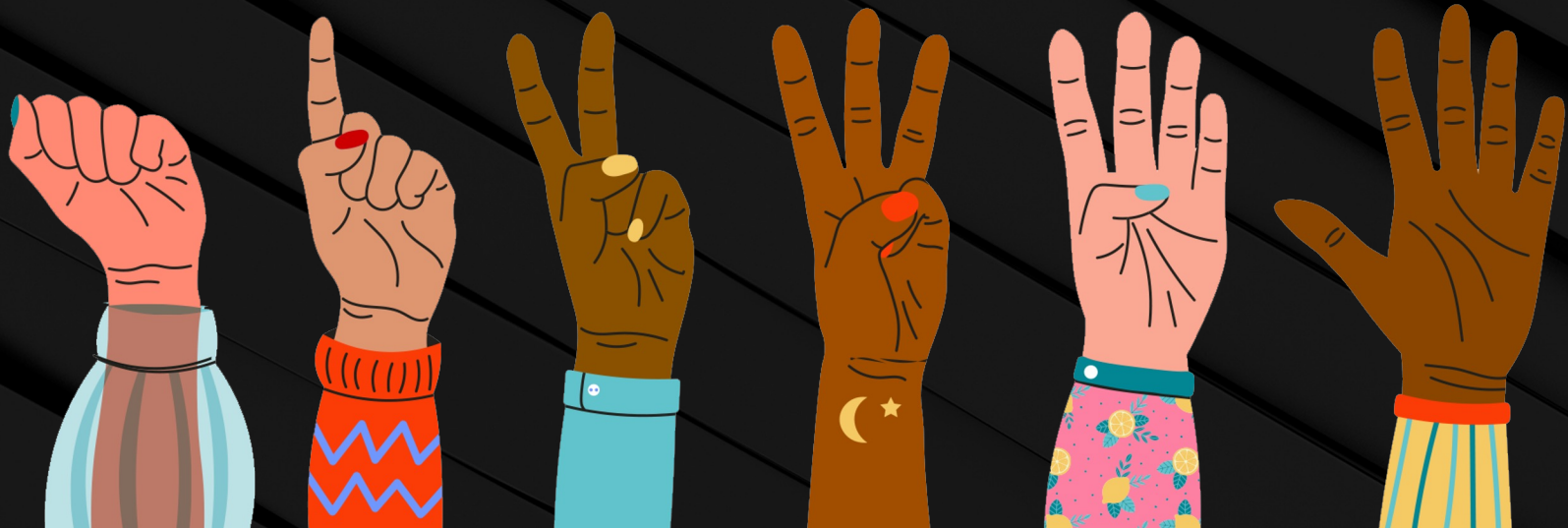
Style an HTML document with CSS



**Make sure you've downloaded
any relevant class files!**

FIST TO FIVE:

How comfortable do you feel with this topic?





Instructor Demonstration

Hello HTML

Hello HTML

HTML5

- HTML is one of the three base languages behind every website.
- It defines all the basic content and a bit of formatting.



Hello HTML

HTML elements are rendered by the browser as visible parts of a webpage



Hello HTML

HTML Syntax (Basic)



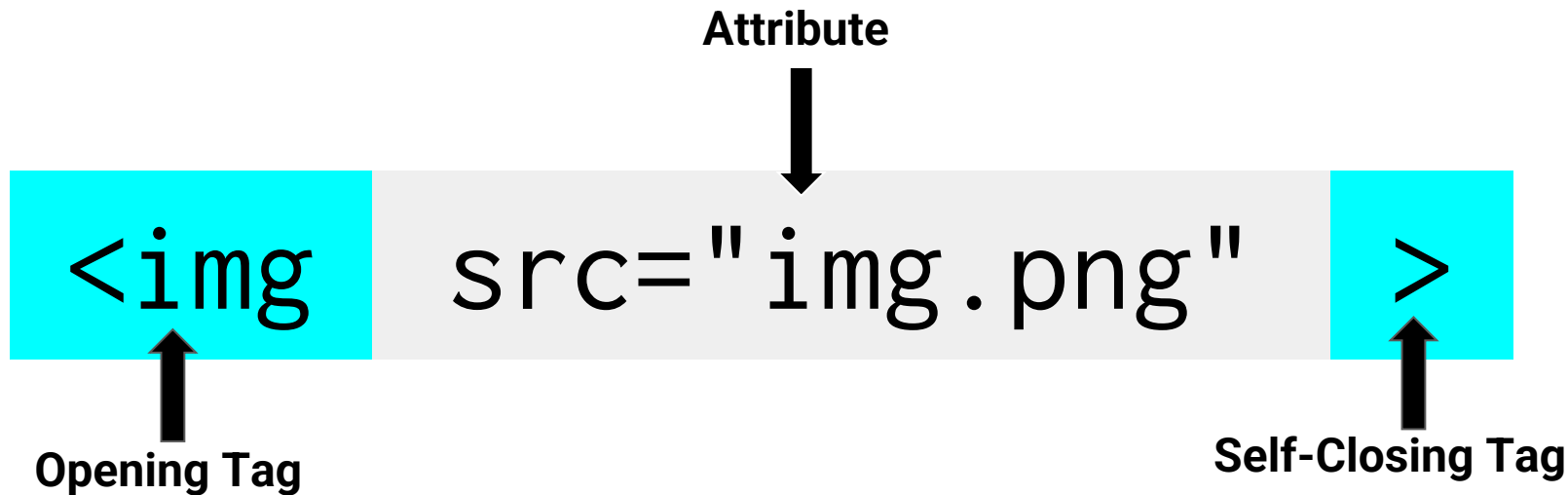
Hello HTML

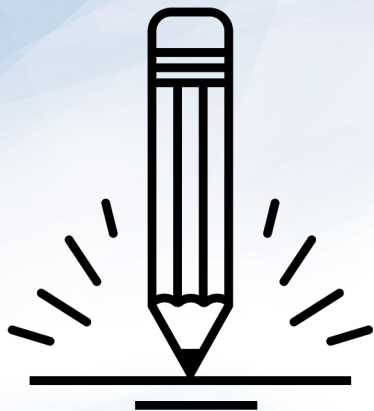
HTML Syntax (with Attribute)



Hello HTML

Tricky Tags (Self-Closing)





Activity: My first HTML

In this activity, you will create your first web page using HTML.

Suggested Time:
20 minutes



My First HTML Instructions

In this activity, you will create a web page containing a header, an image, a link, and lists. Below is an example:

Hello World!

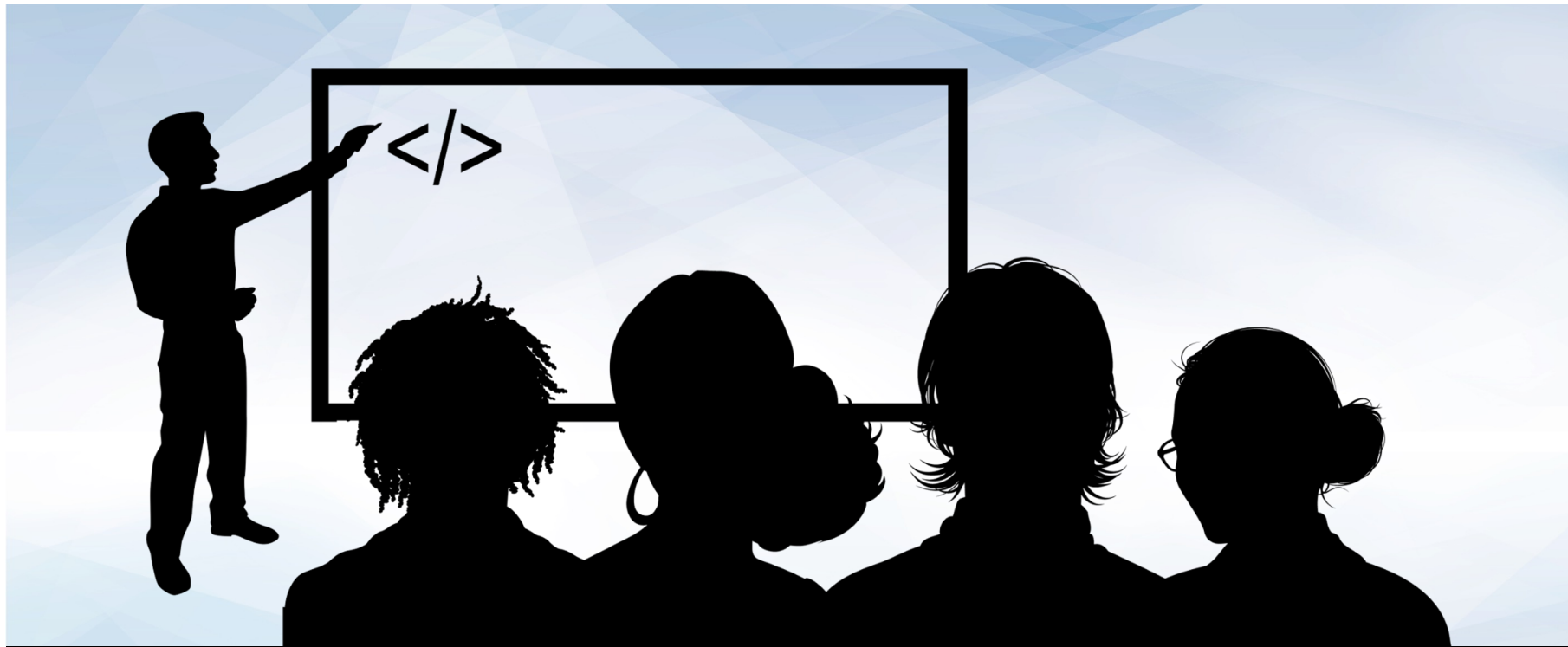


[Google](#)

1. Visit Grand Canyon
 2. Hike the trails
 3. Take photos
- Bach
 - Mozart
 - Beethoven
 - Adele

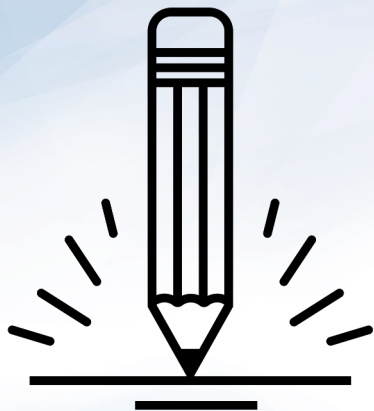


Let's Review



Instructor Demonstration

Introduction to BeautifulSoup



Activity: From Soup to Nuts

In this activity, you will perform basic HTML scraping with BeautifulSoup

Suggested Time:
20 minutes



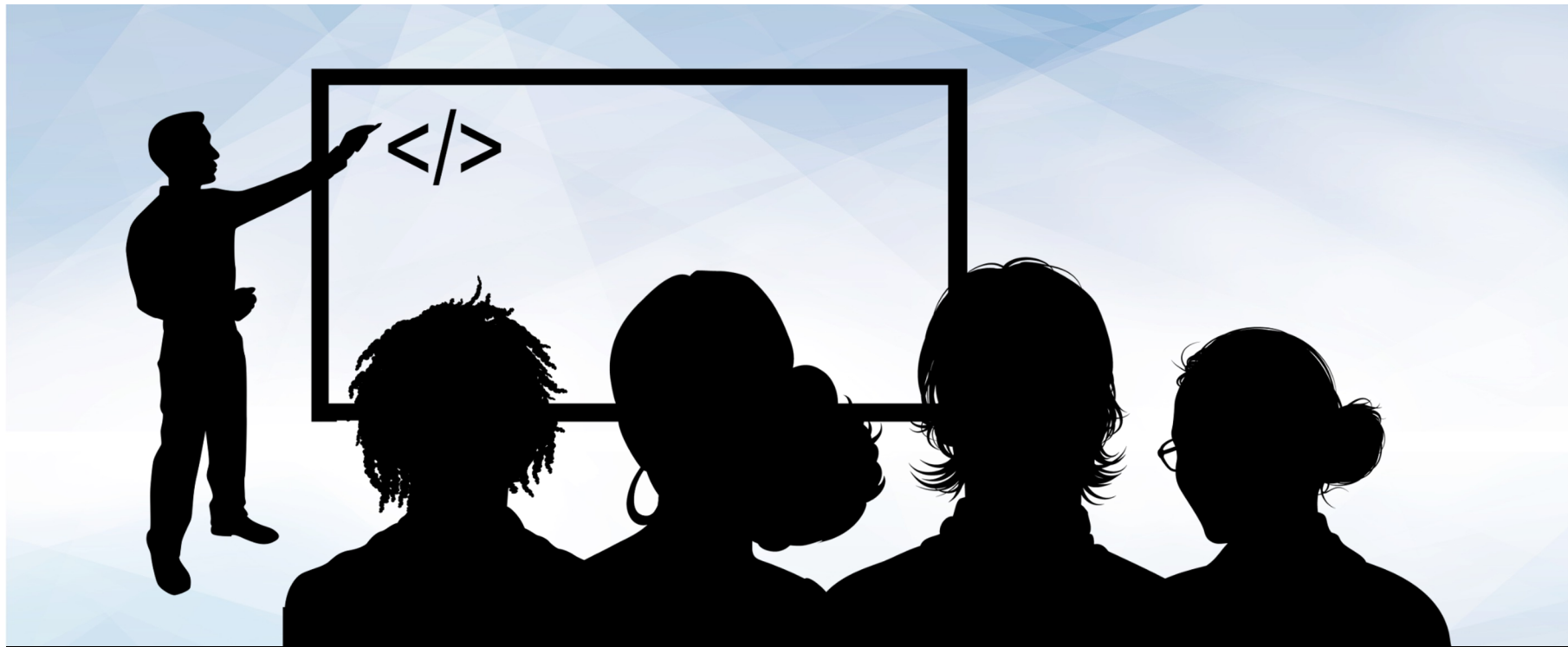
From Soup to Nuts Instructions

In this activity, you will use BeautifulSoup to extract the following information from an HTML document:

- The `<head>` element
- The first `<h1>` element, then its text
- The first `<h2>` element's text
- The first anchor (`<a>`), then its `href` attribute.
- The first `` element, and its first list item (``), as well as the list item's text

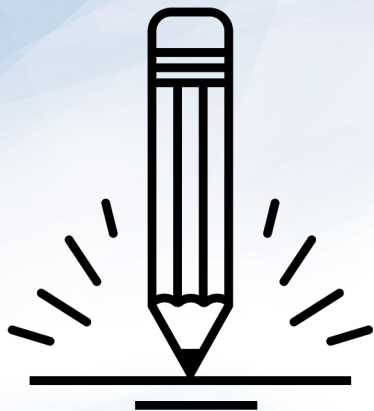


Let's Review



Instructor Demonstration

Introduction to CSS Selectors



Activity: CSS My List

In this activity, you will create an HTML document of lists, and use CSS to color lists and list items.

Suggested Time:
15 minutes





Let's Review

HTML and CSS Class Review

In today's class, you learned the following skills:

- 1 Identifying the basic structure of an HTML document, and creating a basic web page.
- 2 Using BeautifulSoup to extract information from selected HTML elements.
- 3 Identifying elements by CSS selectors.
- 4 Using CSS to style selected HTML elements.