



Advanced AJAX

Skills Bootcamp in Front-End Web Development

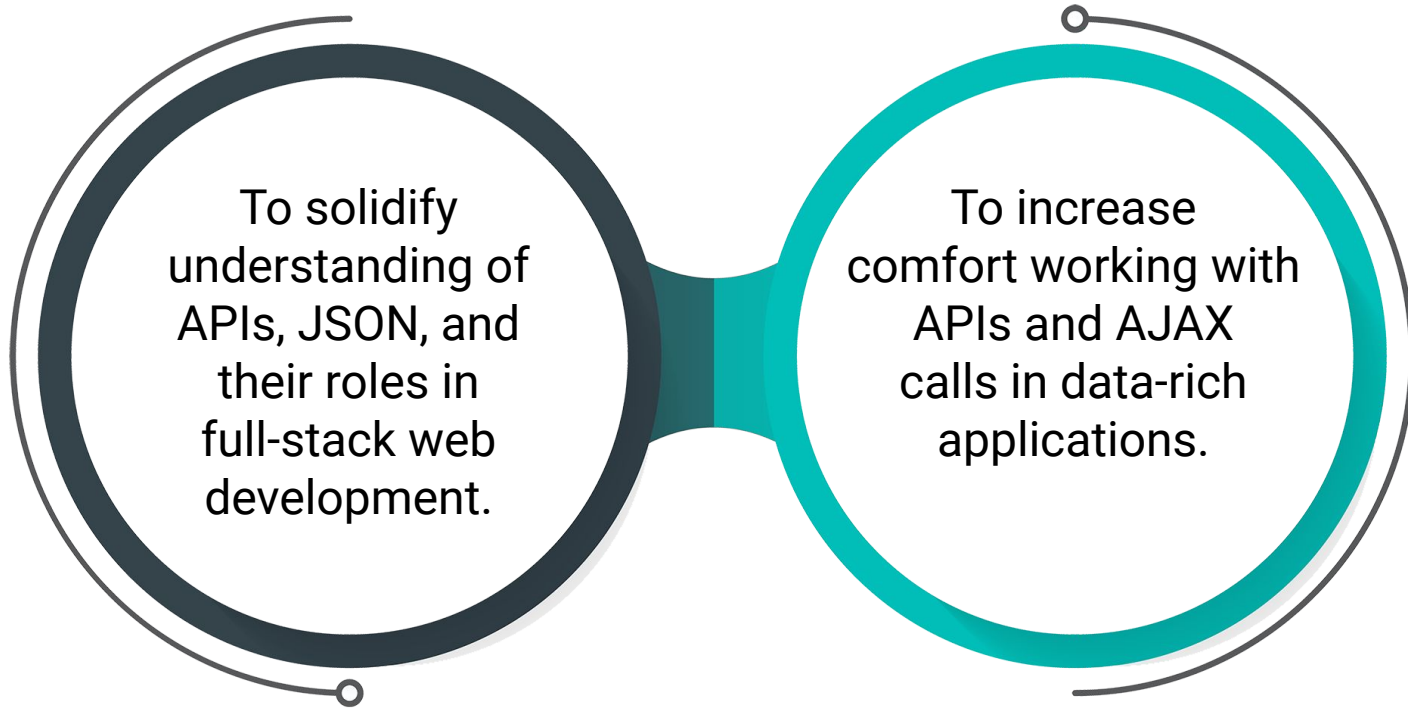
Lesson 8.2



The background is a dark charcoal gray with a series of parallel diagonal lines running from the top-left to the bottom-right. Overlaid on this are several teal-colored geometric shapes: a large central triangle pointing right, a smaller triangle to its left, and a square to its right. Scattered around these shapes are various white line-art symbols, including a plus sign, a minus sign, a circle with a dot, a circle with a horizontal line, a circle with a vertical line, a circle with a diagonal line, a circle with a cross, a circle with a dot, a circle with a horizontal line, a circle with a vertical line, a circle with a diagonal line, a circle with a cross, a circle with a dot, a circle with a horizontal line, a circle with a vertical line, a circle with a diagonal line, and a circle with a cross.

WELCOME

Learning Objectives



API and AJAX



**Are any lingering questions
about API and AJAX?**



Activity: The Weather in Bujumbura

In this activity, you'll use the [OpenWeatherMap API](#) to retrieve live snippets of weather information about the city of Bujumbura (the capital of Burundi, which is a country in Africa).

Suggested Time:

Instructions: The Weather in Bujumbura



Query the [OpenWeatherMap API](#) for the current weather data on Bujumbura, Burundi.



Parse the retrieved data to display wind speed, humidity, and temperature information into the HTML.



Hint: You will need to request an API key from the website.



Figure out how to convert the Kelvin temperature provided into Fahrenheit.



Note: Don't worry if this feels hard. Push yourself!



Time's Up! Let's Review.



Instructor Demonstration

Working Movie App



Activity: Movie App JSON Dump

In this activity, you'll retrieve a movie in the form of JSON.

Suggested Time:



If you finish early, begin reading
about the [Bandsintown API](#).



Time's Up! Let's Review.



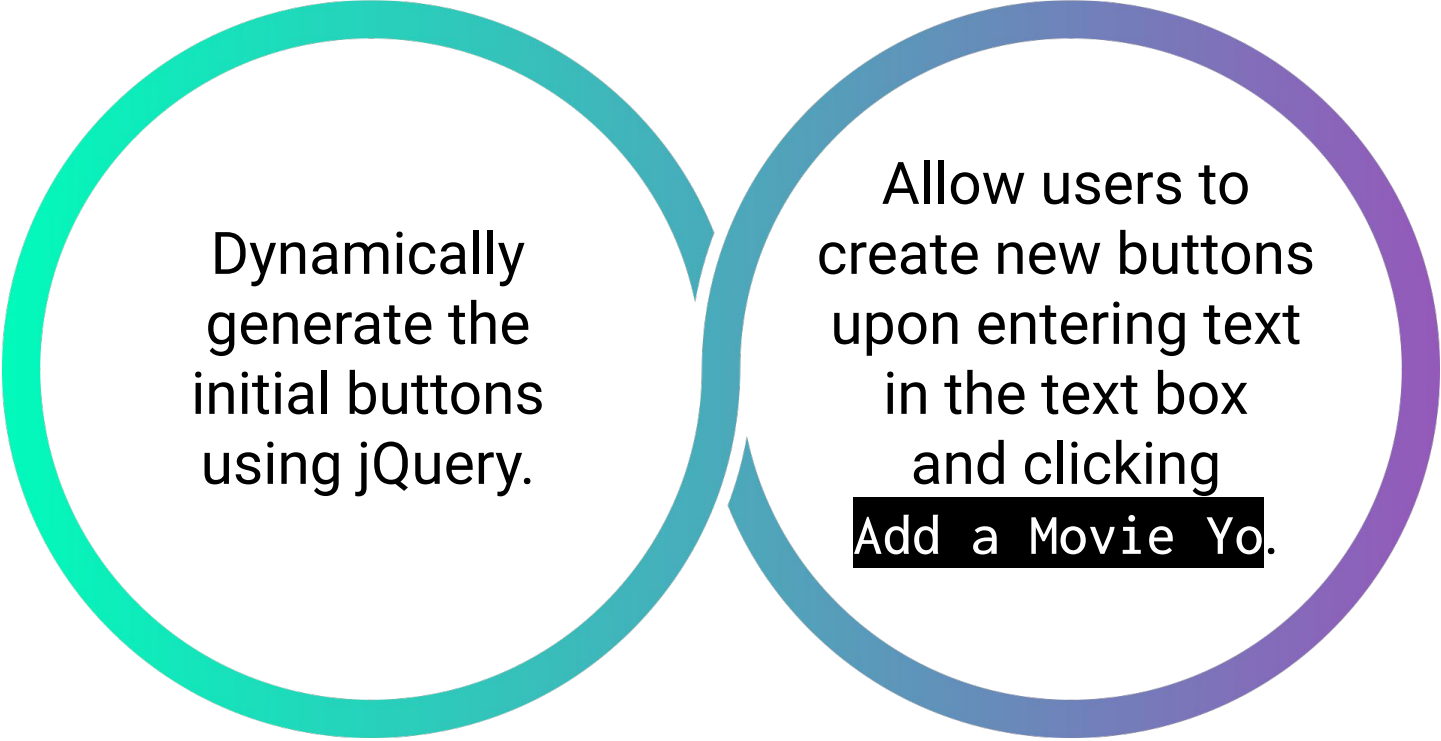
Activity: Dynamic Movie Button Layout

In this activity, you'll allow users to create new buttons.

Suggested Time:

Activity: Dynamic Movie Button Layout

Your final code should:



Dynamically
generate the
initial buttons
using jQuery.

Allow users to
create new buttons
upon entering text
in the text box
and clicking
Add a Movie Yo.



Time's Up! Let's Review.



Activity: Log Movie JSON and Click JSON Data Attribute

In this activity, you'll create a trigger for an alert message.

Suggested Time:

Instructions: Log Movie JSON and Click JSON Data Attribute

Using the starter code provided:



Create the missing code snippets inside the `alertMovieName` function necessary to capture the movie name for both the original and new buttons.



Create the missing code snippets inside the `displayMovieInfo()` function necessary to display JSON data about each movie.



Hint: You should use HTML `data-` attributes.



Time's Up! Let's Review.



Activity: Complete Working Movie App

In this activity, you'll complete the final application.

Suggested Time:

Instructions: Complete Working Movie App

Using either version of the starter code provided to you, complete the application so that various snippets of information about your movie are displayed underneath.

Display at least each of the following:



Movie poster



Rating



Release date



Plot

Movie Search

The Matrix

The Notebook

Mr. Nobody

The Lion King

Add a Movie Bro

Add a Movie Bro

Rating: G

Released: 24 Jun 1994

Plot: Lion cub and future king Simba searches for his identity. His eagerness to please others and penchant for testing his boundaries sometimes gets him into trouble.





Time's Up! Let's Review.



Activity: Bandsintown App (Optional)

Using the starter code provided to you, you'll complete the application such that your code will search the Bandsintown API for the artist specified in the search box.

Suggested Time:

Instructions: Bandsintown App

Bandsintown is a service for finding out when and where bands and artists are scheduled to tour.



Information on how to use query the Bandsintown API can be found [here](#).



Note: This is a free public API, and you will not need to sign up for anything.



Hint: Scroll down the API docs and study the examples. See if you can figure out how to query for an artist's information. You will need to use the `/artists/{artistname}` endpoint.



Hint: The `app_id` parameter described in the docs is required but can be set to anything you wish.



Time's Up! Let's Review.

*The
End*