Working With The DOM To Add Animation To Maps

#### **Learning Outcomes Addressed**

 5.Render a map on a web page

 6.Build and manipulate maps on web pages

### Adding animation to maps

mapbox is an open-source platform that allows you to create and display maps on a web page. The mapboxgl JavaScript library is part of the Mapbox ecosystem. It allows you to add all sorts of customizations to the map. For example, you can add a marker at a specific location on the map.

**In this activity, you will be using the MBTA bus data to determine stops between Harvard and MIT. Then, you need to and add an animated marker on the map to highlight the bus routes.**

You can add your code to the mapanimation.js file.

To accomplish this task, you will need to do the following:

* Create a Mapbox account and get the access token
* Add the access token to the mapboxgl instance defined in the mapanimation.js
* Create a marker and add it to the map using the mapboxgl pre-built functions.
* The function move() is called when the button "Show stops between MIT and Harvard" is selected. This is how you can start the marker animation.
* If your code works, you should be able to see a marker moving from one bus stop to the next on the map.

Hint: You can learn more about how to setup the Mapbox access token by reading [*this documentation*](https://docs.mapbox.com/help/tutorials/get-started-tokens-api/)

Task

Use the mapboxgl library to add a marker to the map. Then, implement the move() function to move the marker on the map from one bus stop to the next,