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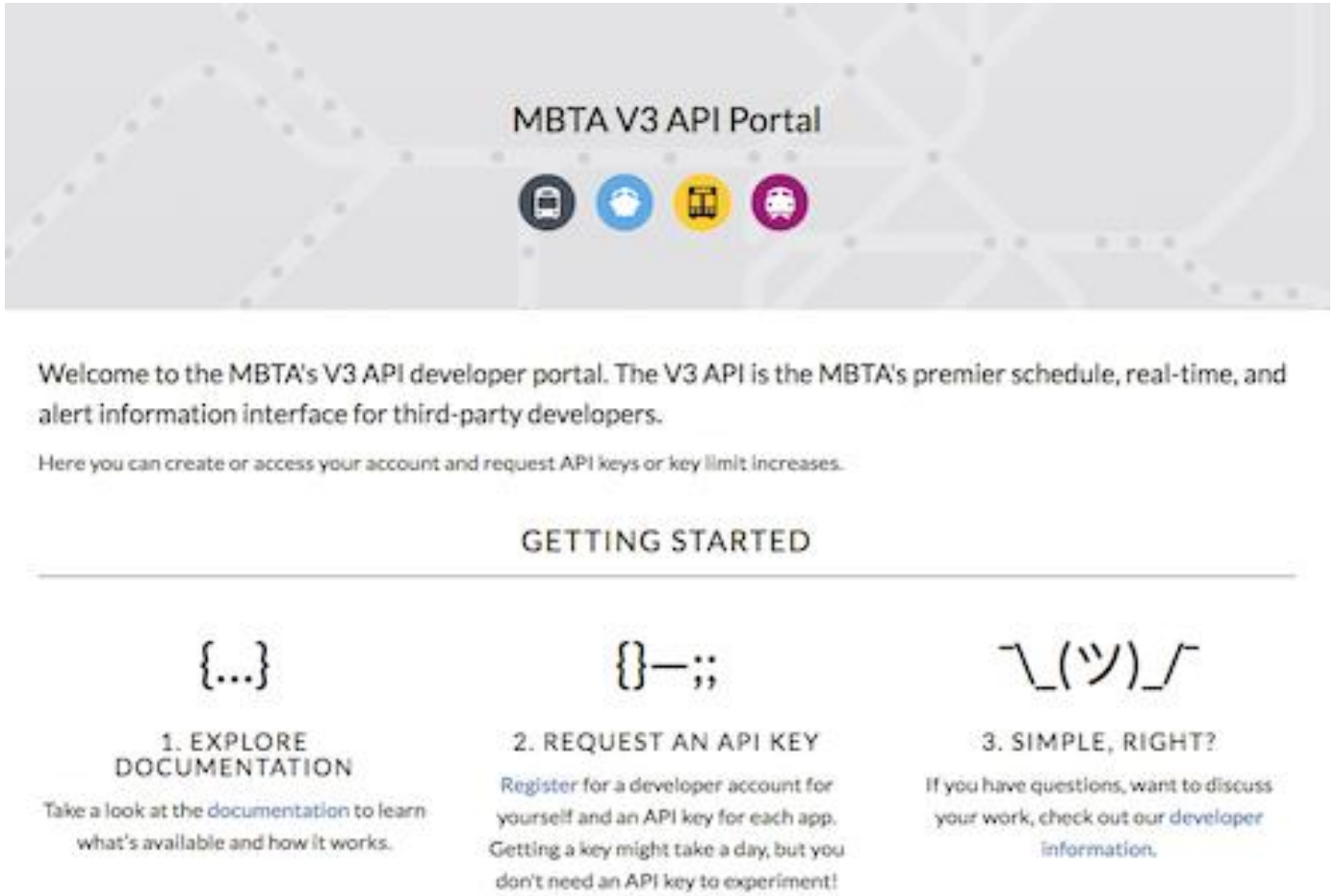
ARTG5330 Final Project Proposal

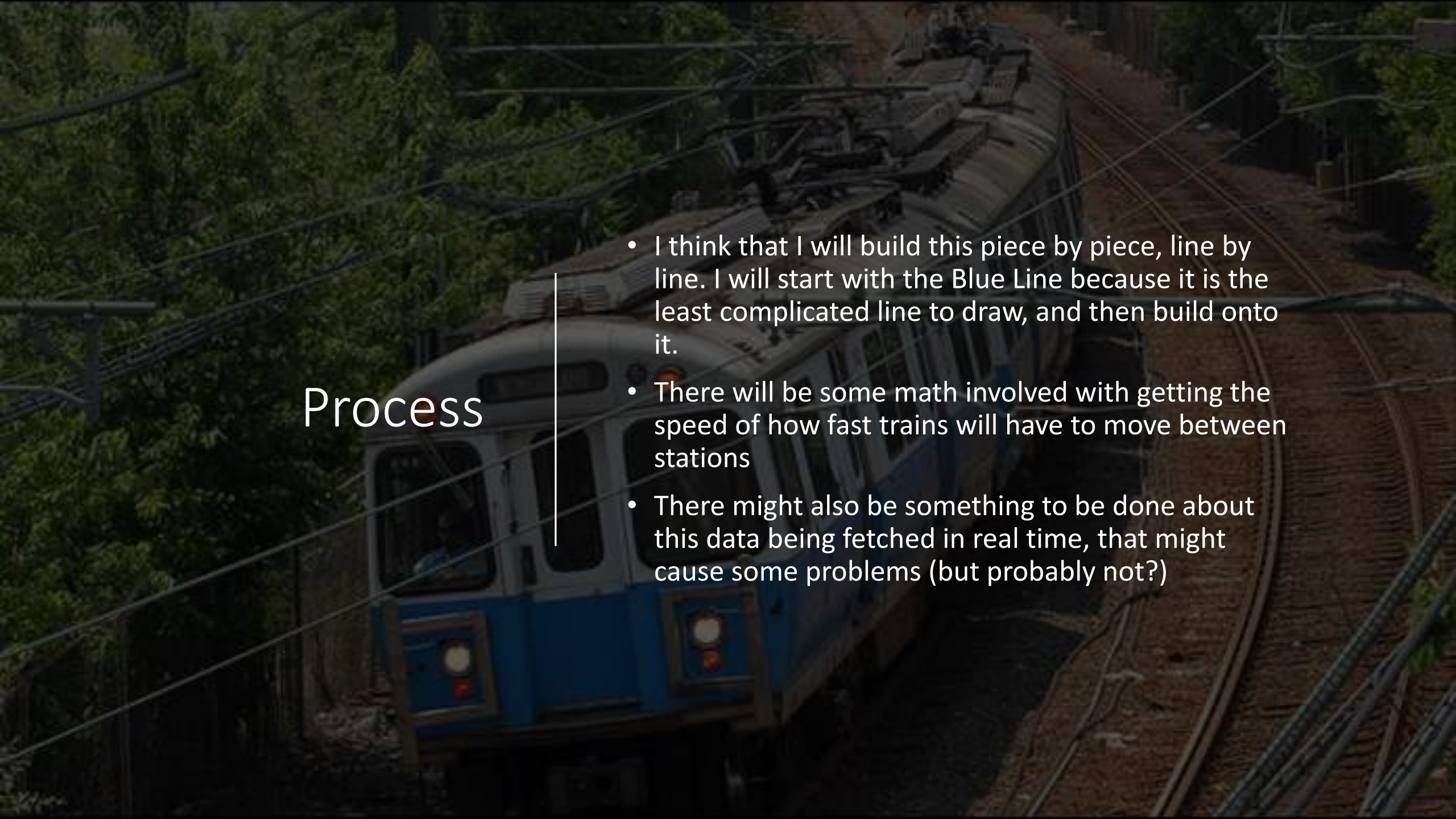
MBTA Live Map

This map would show the positions of each of the trains as they move along their route. This way, instead of looking at how soon the train is set to arrive, you can see a little dot of it moving towards the station you're at.

How?

The MBTA has a live data API that sends data on where all of the trains are at any time





Process

- I think that I will build this piece by piece, line by line. I will start with the Blue Line because it is the least complicated line to draw, and then build onto it.
- There will be some math involved with getting the speed of how fast trains will have to move between stations
- There might also be something to be done about this data being fetched in real time, that might cause some problems (but probably not?)

Extensions

Along with the train data, there is also data describing the delays and other service alerts that might be useful to visualize.

There is also bus data that could be cool to visualize as well!

Mock-Up


Boston Subway Map
Red Line
Alewife
Davis Sq
Porter Sq
Harvard
Central
Kendall
Charles (MGH)
Orange Line
Oak Grove
Malden Ctr
Wellington
Sullivan Sq
Community College
Chinatown
NE Medical Ctr
Back Bay
Mass Ave
Ruggles
Roxbury Crossing
Jackson Sq
Stony Brook
Green St
Forest Hills
Green Line
Lechmère
Science
N. Station
Haymarket
Government
Park Street
Boylston
Arlington
Copley
Auditorium
Prudential
Symphony
Northeastern
Museum
Brigham
Heath
Arborway
(E)
Kenmore
Boston University
(B) Boston College
(C) Cleveland Circle
(D) Riverside
Blue Line
Wonderland
Revere Beach
Beachmont
Suffolk Downs
Orient Heights
Wood Island
Airport
Maverick
Aquarium
State
Downtown Crossing
S. Station
Broadway
Andrew
U. Mass/JFK
Savin Hill
Fields Corner
Shawmut
Ashmont
Mattapan
N. Quincy
Wollaston
Quincy Ctr
Quincy Adams
Braintree