**Quick Facts about the International Space Station:**

* The International Space Station is a large spacecraft. It orbits around Earth. It is a home where astronauts live. The space station is also a science lab.
* Sixteen nations were involved in the construction of the ISS: The United States, Russia, Canada, Japan, Belgium, Brazil, Denmark, France, Germany, Italy, the Netherlands, Norway, Spain, Sweden, Switzerland, and the United Kingdom
* The first piece of the International Space Station was launched in 1998. A Russian rocket launched that piece. After that, more pieces were added. Two years later, the station was ready for people. The first crew arrived on November 2, 2000. People have lived on the space station ever since. Over time more pieces have been added. NASA and its partners around the world finished the space station in 2011.
* The space station is as big inside as a house with five bedrooms. It has two bathrooms, a gymnasium and a big bay window. Six people are able to live there.
* The space station is a home in orbit. People have lived in space every day since the year 2000. The space station's labs are where crew members do research. This research could not be done on Earth. Scientists study what happens to people when they live in space.
* The space station orbits Earth every 90 minutes, which is about 16 times in a day. It travels at 5 miles per second.
* The ISS is the single most expensive object ever built. The estimated cost is about $120 billion.
* Currently, the ISS is the third brightest object in the night sky after the moon and Venus
* Because the human body tends to lose muscle and bone mass in zero gravity environments, all astronauts aboard the ISS must work out at least two hours a day to maintain normal Earth-based bodily health

**Project Outline**:   
For our project we created a website that sighting opportunities of the International Space Station (ISS) in cities near where we live. The data includes date, time, location, and amount of time the station is visible. Additionally, created a live tracker that shows where the ISS is at any given moment around the world, and allows for the users interactively explore the map.

**Importing the data into a Database**:

We began by creating a SQL database, called ISS\_Locations where we imported our CSV file. Our CSV file contains the general location in the sky when the ISS can be visible on a given date in a given city. The cities include Northern Virginia. Maryland, and DC.

**SQL Alchemy and Flask:**

We used SQL Alchemy to create the connection string to the database, created the application object, and specified our routes. We had four routes, one for our homepage, one for our data page, one for our live tracker page, and one that returns our data as a JSON. This last route required us to query the database, create a dataframe from the data, and JSONify the data to be used in the app.js file.

**Javascript and d3**:

We used d3.json to capture the JSONified version of our data from the last route created. We then built the table. This involved looping through each object in the data and appending a row and cells for each value in the row.