Project Plan

Structure:

* Research
* Algorithm
* Conclusion
* Presentation

1: Research:

2: Carbon Footprint:

* Short report summarizing basic information about carbon footprints.

3: Introduction:

* What are carbon footprints?
* Carbon Dioxide Equivalent (CO2e)
* Global Warming Potential (GWP)

2: Causes of Carbon Footprints:

3: “How Bad are Bananas”:

* Read and take notes.
* Short report summarizing contents.
* Database of the carbon footprints of various items and processes in a Jupyter notebook.

3: Regional Assessments:

* Identify and Assess the main causes of carbon footprints in prominent regions such as cities.

2: Measurement of Carbon Footprints:

3: Measuring Methodology:

* Research on current prominent methods that attempt to measure the carbon footprint of regions.
* Write a report summarizing and concluding research.

3: Comparison:

* Create a Python script in a Jupyter notebook to compare the different methods.

3: Flaws:

* Identify flaws of methods researched on.
* Write a report summarizing flaws.

1: Algorithm:

2: Measured Factors:

* Identify what factors will be measured in algorithm.
* Write a report on why the factors identified are effective in precisely measuring the carbon footprint of a region. Also, compare to factors used in other methods.

2: Create Algorithm:

* Write an algorithm that is concise in nature that measures the carbon footprint of a region.
* Write a report describing algorithm.

2: Programming:

* Convert algorithm into a Python script that can be easily used to measure the carbon footprint of a region.
* Program will not require user data input, rather, it will acquire data online.
* Program should be able to compare the carbon footprint of multiple regions and display appropriate infographics as accompaniment.
* Write program in a Jupyter notebook, so it will be easily presentable.

1: Conclusion:

* Write a conclusion that summarizes the whole project.
* Conclusion should include implications and applications of the project.

1: Presentation:

2: Infographic:

* Create a simple infographic with Photoshop that encapsulates the entire process. (Should be the size of a relatively large poster.)

2: Organization:

* Compile together all research and materials required for presentation.