

Write a Python application that displays the Earth's temperature as related to the Carbon emissions.

Data Files:

Co2.html - Monthly CO2 carbon emissions from 1959 to 2018.

Temperature.html - Annual global Temperatures from 1858 to 2018.

Overview:

The application allows the user to select a year where the data overlaps and compares the CO2 emission levels to the temperature for the selected year.

Techniques to use

Use these techniques in your code and clearly mark its usage:

- * Comprehensions
- * Generators
- * Iterators
- * Lambda expressions
- * Regular expressions

FrontEnd.py

- * Interacts with the user
- * Calls search methods in BackEnd.py
- * Displays the search results:
 - By Year
 - By CO2 level < average
 - By CO2 level > average

BackEnd.py

- * Design a class that is adaptable enough to store either Carbon Emission or Temperature data.
- * Reads the data. To the function that reads the data, pass it *args. If the argument count is 1, read the file. If the argument count is 2, use the passed regular expression to read and parse the file.
- * The Carbon Emission data contains monthly data per year. Accumulate the monthly data for each year and store the average emission level in a named tuple.
- * Store each year of the Temperature data in the same named tuple. The + or - on the data indicate the temperature difference from the base average between 1960 and 1990. Place the cumulative tuple in a default dictionary.