MA0218 Mini Project: The Climate Forum

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1   Preface

The entirety of the project is contained within the `main.py` Python file, and that also includes the slides. The project makes use of Marimo, an alternative to the Jupyter notebook format, and makes use of its slides. Thus, Marimo is needed to display the slides and run the notebook. The data is also needed for the slides to display properly, as the slides makes use of the data for its visualisations.

2   Installing required software

2.1   Marimo

To install Marimo using `pip`, run the command below:

```
pip install marimo
```

If you are using Anaconda, run the command below to install Marimo:

```
conda install conda-forge::marimo
```

2.2   Other required libraries

The project also makes use of the libraries covered in the lectures, such as:

- Numpy

- Pandas

- Matplotlib

- Seaborn

- Scikit-Learn

If you are using a package manager like `pip`, `poetry`, `pdm` or `uv`, you can run
the commands below to automatically install the required packages.

- For `pip`:

  ```
  pip install -r requirements.txt
  ```

- For `poetry`:

  ```
  poetry install
  ```

- For `pdm`:

  ```
  pdm install
  ```

- For `uv`:

  ```
  uv install
  ```

3 Running the notebook

To run the notebook, change to the directory where you have downloaded the program, making sure that the data file is also in the same folder, and use the command below:

```
marimo run main.py
```

Marimo should automatically open your browser, similar to how Jupyter would, and you should be able to view the notebook in the browser as slides.

If you would like to see the code, instead of running the above command, use the command below to view it in a notebook format:

```
marimo edit main.py
```

4 Viewing the project without Marimo

4.1 Non-interactive notebook using the browser

To view the notebook non-interactively, open the notebook.html file in your browser. Double-clicking the file in your file explorer should be sufficient to view the notebook. Please be patient, as it takes a while to load.

4.2 Non-interactive slides using the browser

To view the slides non-interactively, open the slides.html file in your browser. Double-clicking the file in your file explorer should be sufficient to view the slides. Please be patient, as it takes a while to load.

5 Licence

This project is licensed under the GNU AGPL v3. For the full licence text, you can view the LICENCE.txt file.