Assignment/Assessment 2

This assignment is about designing and building a model, application, or analysis from scratch. Your project should:

* Read in some data.
* Process it in some way.
* Display the results.
* Write the results to a file.

You can use any of the code you developed in the course or that you submitted for Assignment 1 as a starting point, but you should not expect to get much credit for code that has already been assessed.

The submission should include all the code and data needed to run the project, along with instructions as to how to run it.

Choose one of the following:

* [Site location problem](https://www.geog.leeds.ac.uk/courses/computing/study/core-python-phd/assessment2/best.html)
* [The Black Death](https://www.geog.leeds.ac.uk/courses/computing/study/core-python-phd/assessment2/death.html)
* [White Star Line](https://www.geog.leeds.ac.uk/courses/computing/study/core-python-phd/assessment2/ice.html)
* [To the Max!(...imum Gradient...)](https://www.geog.leeds.ac.uk/courses/computing/study/core-python-phd/assessment2/snow.html)
* [Tracking biological weapon fallout](https://www.geog.leeds.ac.uk/courses/computing/study/core-python-phd/assessment2/wind.html)
* [Planning for drunks](https://www.geog.leeds.ac.uk/courses/computing/study/core-python-phd/assessment2/drunk.html)
* Something of your own invention: Please discuss this with your tutor.

The submission should include: a README file; a LICENSE file; the source code; the data; and a short document (2000 words limit) detailing the intention of the software, any issues that arose during development and how these were overcome (or not), general sources used, the thought processes going into the software design, and the software development process followed. The document is intended to give a brief context for the software, explaining how it ended up how it is, such that any issues can be understood and the work can be assessed appropriately; it is not intended to be a lengthy investigation into the problem area solved by the software, unless that is absolutely necessary for understanding the software.

The [Assignment 2 Marking Scheme](https://www.geog.leeds.ac.uk/courses/computing/info/Assignment2MarkingScheme.docx) applies.

Submission of the project should be by uploading a zip file containing all the relevant components to [Minerva](https://minerva.leeds.ac.uk/).