# Programming Fundamentals for Data Science

## Laboratory Session 6

## Data Visualisation with Python

A key approach in communicating data to the audience is by using a range of graphical objects, organised as charts and diagrams. This laboratory session will focus on two methods for visualising two-dimensional data, namely heat maps and parallel coordinates.

**Task 1**

Find the average monthly temperatures of three cities of your choice. Organise the data as comma-separated values (CSV) file. Represent the data by using a heat map. Provide a colour scale for guidance. Allow the user to specify a threshold for the heat map. Based on this threshold value, use different base colours when representing the data points.

**Task 2**

Represent the data from Task 1 by using parallel coordinates. Use different colours for each city's average monthly temperatures.