# Excel spreadsheet to d3 Sunburst diagram Generation script

The Python script takes an Excel spreadsheet with hierarchically structured information and tries to generate a JSon file that reflects the Flare format (<http://bl.ocks.org/mbostock/4063423>) and that allows to display that information in a Sunburst diagram.

## Usage

The script is invoked from the command line by calling:

python $PATH\_TO\_SCRIPT$\ExcelToJSonSunburst.py Input\_Spreadsheet Output\_JSon\_file Worksheet\_name Ordered\_Column\_List Number\_Of\_Header\_Rows Centre\_Label

### Parameters (all mandatory)

1. Input\_Spreadsheet: Full filename of the spreadsheet
2. Output\_JSon\_file: The full pathname of the generated JSon file
3. Worksheet\_name: Name of the worksheet that contains the data within the Spreadsheet
4. Ordered\_Column\_List : Comma-separated (no spaces) list of the columns that contain the data within the worksheet
5. Number\_Of\_Header\_Rows: Number of rows of the worksheet that will be ignored in the processing (typically containing headers, etc)
6. Centre\_Label: The label that will be displayed at the centre of the sunburst diagram.

## Prerequisites

Python Interpreter, Version 3.3

Requires the Python module xlrd version 0.92

## Prerequisites to display the Sunburst Diagrams

A Web Server needs to be used to access the HTML file that is included in this folder.

The generated JSon file (which needs to be named Test2.json) needs to be in the same web folder as the HTML file.

The d3 javascript library needs to be available on the Web Server:

1. Create the d3 folder within the same folder that contains the HTML file and the JSon file
2. Copy the files d3.v3.js and d3.v3.min.js in that folder.