

Shapefiles to download:

- Worldwide maps: <https://www.naturalearthdata.com/downloads/>
- Australian maps:
 - SA1-SA4 (Census-related):
<https://www.abs.gov.au/AUSSTATS/abs@.nsf/DetailsPage/1270.0.55.001July%202016?OpenDocument>
 - LGA, State Electoral Divisions, etc.:
<https://www.abs.gov.au/AUSSTATS/abs@.nsf/DetailsPage/1270.0.55.003June%202020?OpenDocument>
 - Victoria suburbs: <https://data.gov.au/dataset/ds-dga-af33dd8c-0534-4e18-9245-fc64440f742e/details>
- US maps: <https://www.census.gov/geographies/mapping-files/time-series/geo/carto-boundary-file.html>

Maps are not shown:

- check whether you are using the raw data instead of the github data link (<https://edstem.org/au/courses/6022/discussion/601807>)
- Remove all the calculations, log scales, etc. Choose a basic colour scale first.
- Double-check the following attributes:
 - "feature"
 - "lookup"
 - "key"
 - everything that you need for the csv file must be entered into "fields"

Data transformation:

- wide to long: <https://vega.github.io/vega-lite/docs/fold.html>
- long to wide: <https://vega.github.io/vega-lite/docs/pivot.html>

Code not showing in Visual Studio Code, but works fine in Vega Editor:

- The plugin in VS Code does not have the latest Vega-Lite compiler. You might need to use Vega Editor for this part; or use "Open with Liver Server" in VS Code to check the result.

Different display when opening with live server vs html on github:

- clear your cookie in the browser and try again

Visualisations works fine in Vega Editor or VS Code but are not shown on the HTML page:

- use the latest vega javascript: e.g.,

```
<script src="https://cdn.jsdelivr.net/npm/vega@5.20.2"></script>
```

```
<script src="https://cdn.jsdelivr.net/npm/vega-lite@5.1.1"></script>
```

```
<script src="https://cdn.jsdelivr.net/npm/vega-embed@6.18.2"></script>
```