

# Documentation for the LYLA Web App

## Update Data Procedure

Steps to update the data for the web application:

1. Get the updated version of the raw file LYLA 2022-9-21\_latest.xlsx
2. Run [datasets.ipynb](#) to update the input data file for the application.
  - a. Inputs:
    - i. LYLA 2022-9-21\_latest.xlsx
  - b. Outputs:
    - i. LYLA\_2022-9-21\_latest.json
    - ii. Events\_data.json
3. Run [01\\_data\\_per\\_million.py](#) to get the aggregated data, necessary for heatmap, bar and line charts.
  - a. Inputs:
    - i. LYLA 2022-9-21\_latest.xlsx
    - ii. LatinAmerica\_geo\_variables\_provinces.csv
  - b. Outputs:
    - i. Population\_admin0.json
    - ii. Data\_agg.json
4. Place all the output files in the /src/data directory

# Chain of Events for all Interactions

This document lists the set of events that take place after each user interaction. The visual elements are marked in bold e.g. **LineChart**

- Click country in map (**Heatmap**):
  - onEachFeature → zoomToFeature, parentFunc
  - parentFunc → setfile
  - File → setshapes, setcountrykey, setlevel (level helps aggregation)
  - countryKey → setNumEvents → **EventsText**
  - Shapes → **Heatmap**, setheat, setCountries, setfileflag
  - Heat → **Heatmap**
  - Fileflag → setFilteredData, setFilteredData\_agg
  - filteredData → **CircleMarkers**
  - filteredData\_agg → LineData, BarData
  - LineData → **LineChart**
  - BarData → **BarChart**
- Click region in map:
  - onEachFeature → zoomToFeature, parentFunc
  - parentFunc → setfile
  - File → setcountrykey, setlevel
  - countryKey → setNumEvents → **EventsText**
- Click point in map:
  - **Popup**
- Reset map:
  - File → setshapes, setcountrykey, setlevel
  - countryKey → setNumEvents → EventsText
  - Shapes → **Heatmap**, setheat, setCountries, setfileflag
  - Heat → **Heatmap**
  - Fileflag → setFilteredData, setFilteredData\_agg
  - filteredData → **CircleMarkers**
  - filteredData\_agg → LineData, BarData
  - LineData → **LineChart**
  - BarData → **BarChart**
- Filter date:
  - Filter → filteredData, filteredData\_agg
  - filteredData → **CircleMarkers**
  - filteredData\_agg → LineData, BarData
  - LineData → **LineChart**
  - BarData → **BarChart**

- Filter a variable:
  - Filter → filteredData,filteredData\_agg
  - filteredData → **CircleMarkers**
  - filteredData\_agg → LineData, BarData
  - LineData → **LineChart**
  - BarData → **BarChart**
  
- Show events:
  - Show → **CircleMarkers**
  
- Filter country in dropdown:
  - Filter → filteredData,filteredData\_agg
  - filteredData → **CircleMarkers**
  - filteredData\_agg → LineData, BarData
  - LineData → **LineChart**
  - BarData → **BarChart**
  
- Select variable in dropdown for bar chart:
  - variable →BarData
  - BarData → **BarChart**
  
- # Events checkbox
  - events\_check → LineData, BarData
  - LineData → **LineChart**
  - BarData → **BarChart**