

K

Kane Li STAFF

4 months ago



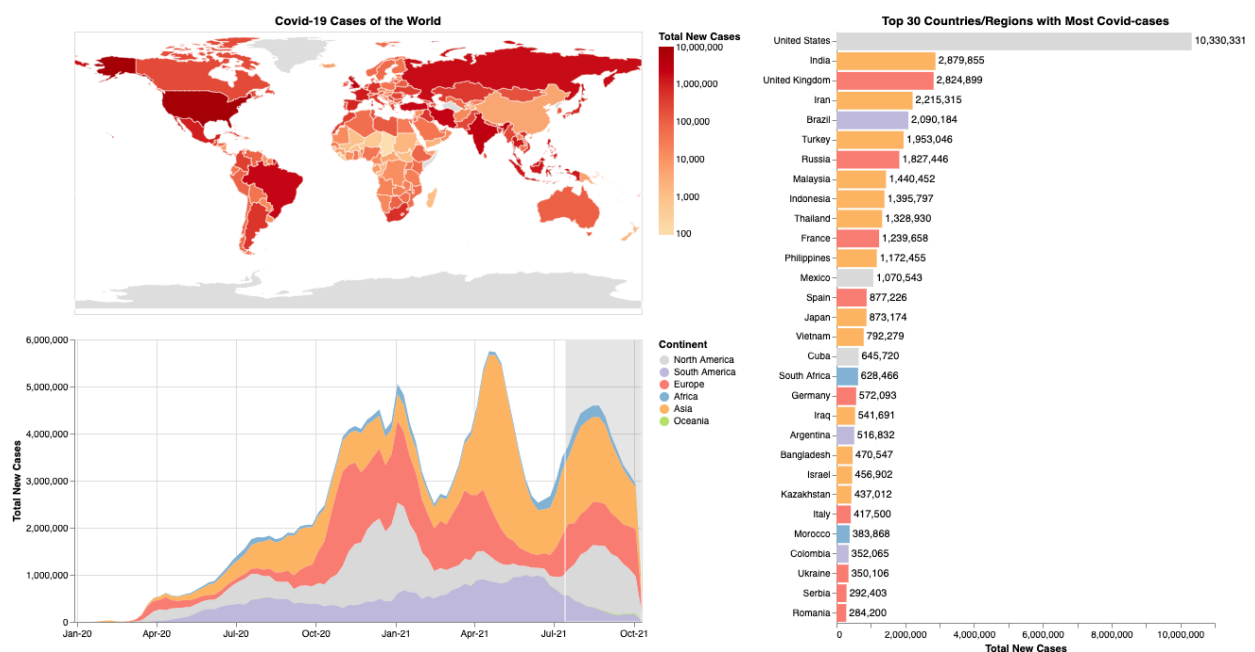
Hi Adam,

You will need aggregation transformations - as Choropleth maps can only show one point for one country.

It is not difficult to do at all. Just need to define the data logic before you implement it.

Here is an example: <https://kanesec.github.io/covid/>

Github: <https://github.com/KaneSec/covid>



Btw, try to be bold and innovative - do not be limited by the examples that we give in the studio document or those examples that I made.

Cheers,

Kane

A

Adam Peer 4mth

Hi Kane,

I have tried the exact same thing but still cannot get it to work. I have put my code down below.

```
{
  "$schema": "https://vega.github.io/schema/vega-lite/v5.json",
  "data": {
    "url": "https://raw.githubusercontent.com/adampeer/Choropleth-Map/main/Tourist-Arrival-by-",
  },
  "vconcat": [
    {
```

```

"width": 1000,
"height": 300,
"title": "Tourist Arrivals by Country of Residence (2013-2019)",
"projection": {
  "type": "equalEarth"
},
"layer": [
  {
    "data": {
      "url": "https://raw.githubusercontent.com/KaneSec/vega_lite/main/2_symbol_map/js/1",
      "format": {
        "type": "topojson",
        "feature": "ne_110m_admin_0_countries"
      }
    },
    "transform": [
      {
        "calculate": "'Data is not available in ' + datum.properties.NAME",
        "as": "note"
      }
    ],
    "mark": {
      "type": "geoshape",
      "fill": "#ddd",
      "stroke": "white",
      "strokeWidth": 1
    },
    "encoding": {
      "tooltip": {
        "field": "note"
      }
    }
  },
  {
    "transform": [
      {
        "filter": {
          "param": "time_brush"
        }
      },
      {
        "aggregate": [
          {
            "op": "sum",
            "field": "Number",
            "as": "sum_Number"
          }
        ],
        "groupby": [
          "Country"
        ]
      },
      {
        "lookup": "Country",
        "from": {
          "data": {
            "url": "https://raw.githubusercontent.com/KaneSec/vega_lite/main/2_symbol_m",
            "format": {
              "type": "topojson",
              "feature": "ne_110m_admin_0_countries"
            }
          }
        },
        "key": "Country"
      }
    ]
  }
]

```

```

    }
  ],
  "mark": {
    "type": "geoshape",
    "stroke": "#fff",
    "strokeWidth": 0.5
  },
  "encoding": {
    "shape": {
      "field": "Country",
      "type": "geojson"
    },
    "color": {
      "field": "sum_Number",
      "type": "quantitative",
      "legend": {
        "title": "Total Arrivals"
      }
    },
    "tooltip": [
      {
        "field": "Country",
        "type": "nominal",
        "title": "Country/Region"
      },
      {
        "field": "sum_Number",
        "type": "quantitative",
        "title": "Total Arrivals",
        "format": ", "
      }
    ]
  }
}
]
},
{
  "width": 1000,
  "height": 100,
  "params": [
    {
      "name": "time_brush",
      "select": {
        "type": "interval",
        "encodings": [
          "x"
        ]
      }
    }
  ],
  "mark": {
    "type": "line",
    "cornerRadiusTopLeft": 3,
    "cornerRadiusTopRight": 3
  },
  "encoding": {
    "x": {
      "timeUnit": "year",
      "field": "Year",
      "type": "temporal",
      "axis": {
        "title": "",
        "format": "%Y",
        "tickCount": 7,

```

```


        "gridOpacity": 0.7
      },
    },
    "y": {
      "field": "Number",
      "aggregate": "sum",
      "axis": {
        "tickCount": 4,
        "title": "Total Number of Tourist Arrival"
      },
      "scale": {
        "domain": [
          900000,
          1500000
        ]
      }
    }
  }
},
],
"config": {}
}

```

Thanks in advance,

Adam

...

 **Kane Li** STAFF 4mth  
Hi Adam,

You should first make the aggregation part working without time\_brush.

Here is a simplified version of the code. The main problem is the lookup. It is not working currently.

- Line 39 -> you do not have "Country" in your topojson file.

Please double-check the FAQs: how to link csv with topojson file. There are a few issues there.

Click on Data Viewer and make sure that the lookup is working first.

LOGS (1) DATA VIEWER SIGNAL VIEWER		
source_0	>	< 1 2 3 >
Country	sum_Number	_lookup
"Afghanistan"	5197	null
"Algeria"	2589	null
"Angola"	3827	null
"Australia"	133385	null

"Austria"	98861	null
"Bahrain"	1165	null

Let me know how it goes.

```
{
  "$schema": "https://vega.github.io/schema/vega-lite/v5.json",
  "data": {
    "url": "https://raw.githubusercontent.com/adampeer/Choropleth-Map/main/Tourist-Arrivals",
  },
  "vconcat": [
    {
      "width": 1000,
      "height": 300,
      "title": "Tourist Arrivals by Country of Residence (2013-2019)",
      "projection": {
        "type": "equalEarth"
      },
      "layer": [
        {
          "transform": [
            {
              "aggregate": [
                {
                  "op": "sum",
                  "field": "Number",
                  "as": "sum_Number"
                }
              ]
            },
            {
              "groupby": [
                "Country"
              ]
            }
          ],
          "lookup": "Country",
          "from": {
            "data": {
              "url": "https://raw.githubusercontent.com/KaneSec/vega_lite/main/2_symt",
              "format": {
                "type": "topojson",
                "feature": "ne_110m_admin_0_countries"
              }
            }
          },
          "key": "Country"
        }
      ],
      "mark": {
        "type": "geoshape",
        "stroke": "#fff",
        "strokeWidth": 0.5
      },
      "encoding": {
        "shape": {
          "field": "Country",
          "type": "geojson"
        },
        "color": {
          "field": "sum_Number",
          "type": "quantitative",
          "legend": {
            "title": "Total Arrivals"
          }
        }
      }
    }
  ]
}
```

```

    }
  }
}
]
},
"config": {}
}

```

Cheers,

Kane

...

A Adam Peer 4mth  
Hi Kane,

Thanks for getting back. Unfortunately, when I changed the lookup part, the map is now not even showing although the "\_lookup" column shows data.

```

{
  "$schema": "https://vega.github.io/schema/vega-lite/v5.json",
  "data": {
    "url": "https://raw.githubusercontent.com/adampeer/Choropleth-Map/main/Tourist-/",
  },
  "vconcat": [
    {
      "width": 800,
      "height": 300,
      "title": "Tourist Arrivals by Country of Residence (2013-2019)",
      "projection": {
        "type": "equalEarth"
      },
    },
    {
      "layer": [
        {
          "transform": [
            {
              "aggregate": [
                {
                  "op": "sum",
                  "field": "Number",
                  "as": "sum_Number"
                }
              ],
            },
            {
              "groupby": [
                "Country"
              ]
            }
          ],
        },
        {
          "lookup": "Country",
          "from": {
            "data": {
              "url": "https://raw.githubusercontent.com/KaneSec/vega_lite/main/:",
              "format": {
                "type": "topojson",
                "feature": "ne_110m_admin_0_countries"
              }
            },
          },
          "key": "properties.NAME"
        },
      ],
    },
  ],
}

```

```
        "as": "geo"
      },
    ],
    "mark": {
      "type": "geoshape",
      "stroke": "#fff",
      "strokeWidth": 0.5
    },
    "encoding": {
      "color": {
        "field": "sum_Number",
        "type": "quantitative",
        "legend": {
          "title": "Total Arrivals"
        }
      }
    }
  }
]
}
],
"config": {}
}
```

Cheers,

Adam

...

A

Adam Peer 4mth

↩ Replying to Adam Peer

Hi Kane,

I managed to make it work. Thanks a lot for your time and help.

Cheers,

Adam

...

K

Kane Li STAFF 4mth

↩ Replying to Adam Peer

Glad to hear that, Adam.

Great work.

Cheers,

Kane

...