

You are viewing this thread in readonly mode.

Dealing with missing countries #283



Wangjie Zhong

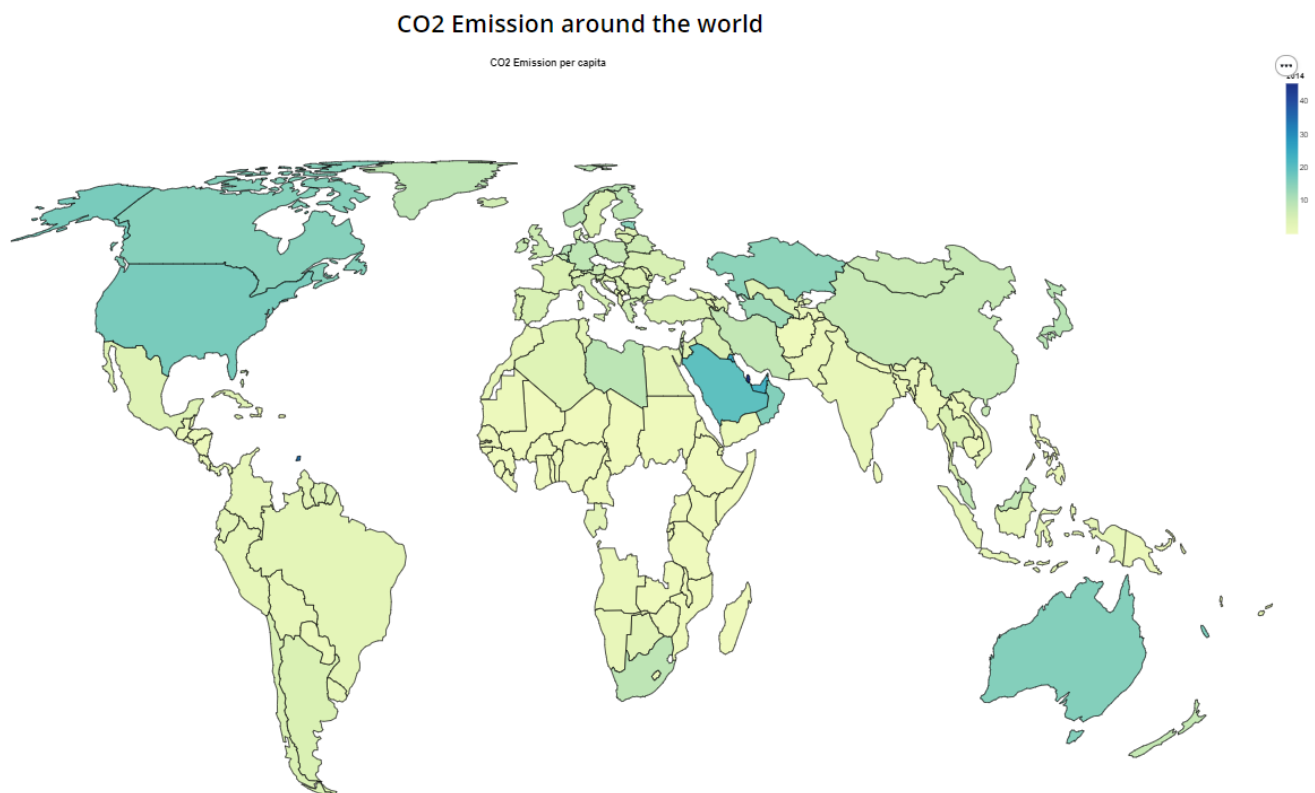
4 months ago in **Homework**

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VIEWS

Hello,

How do I show countries with missing data values for my visualisation:



Countries without values are just plain white. This is bad for coastal countries because they'll disappear completely. How do I create a special case for missing countries, like highlighting them with a special colour, say: black?

Furthermore, is possible to change the background (ocean) colour?

Finally, my dataset has a temporal element. Is there a way to show changes over time on the map?

1 Answer



Kane Li STAFF

4 months ago



Hi Wangjie,

Good question.

You can add another basemap layer, and show all empty countries as "grey".

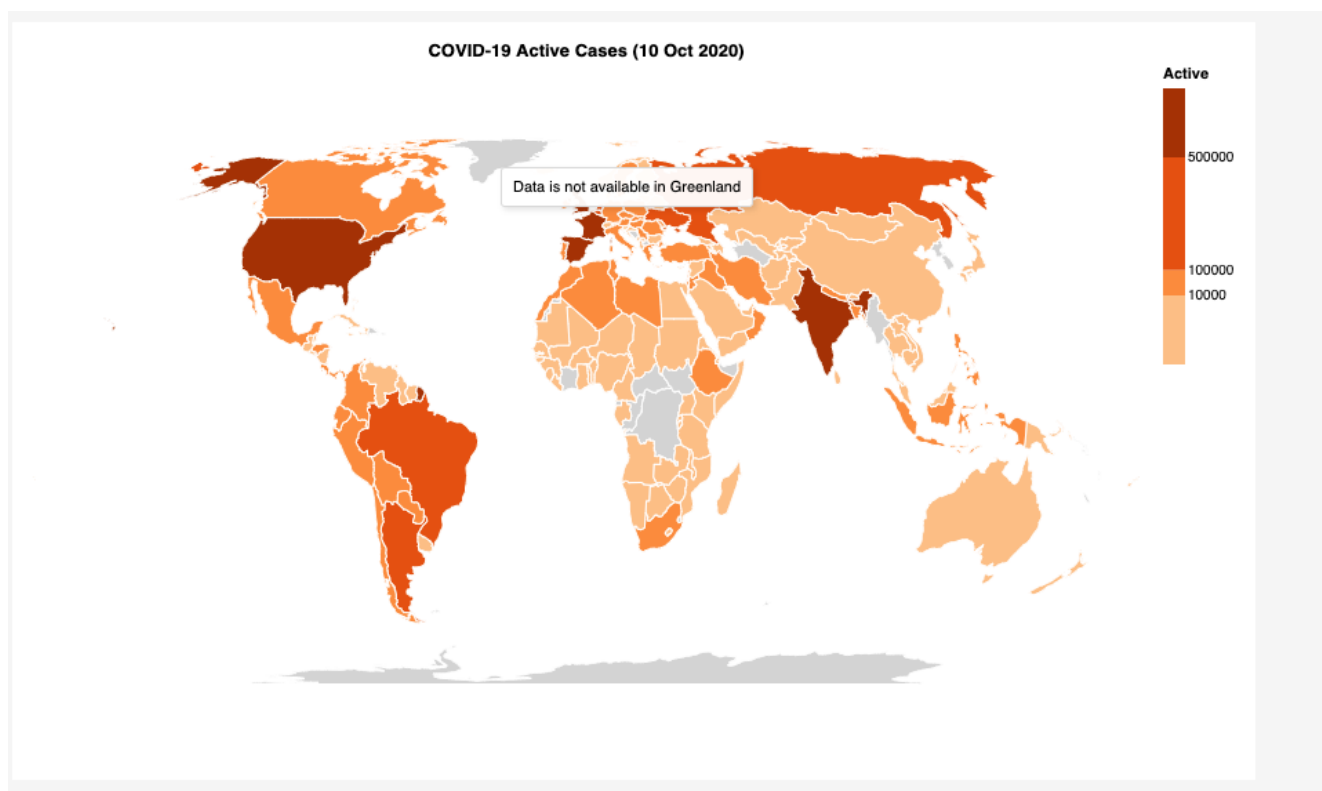
Here is an example of that:

```
{
  "$schema": "https://vega.github.io/schema/vega-lite/v5.json",
  "title": "COVID-19 Active Cases (10 Oct 2020)",
  "width": 800,
  "height": 500,
  "data": {
    "url": "https://raw.githubusercontent.com/KaneSec/vega_lite/main/3_choropleth_map/js/n",
    "format": {"type": "topojson", "feature": "ne_110m_admin_0_countries"}
  },
  "projection": {"type": "equalEarth"},
  "layer": [
    {
      "transform": [
        {"calculate": "'Data is not available in ' + datum.properties.NAME", "as": "note"}
      ],
      "mark": {"type": "geoshape", "fill": "lightgray", "stroke": "white"},
      "encoding": {
        "tooltip": {
          "field": "note"
        }
      }
    },
    {
      "transform": [
        {
          "lookup": "properties.NAME",
          "from": {
            "data": {
              "url": "https://raw.githubusercontent.com/KaneSec/vega_lite/main/3_choropleth",
              "key": "Country",
              "fields": ["Active"]
            }
          }
        }
      ],
      "mark": {"type": "geoshape", "stroke": "white"},
      "encoding": {
        "color": {
          "field": "Active",
          "type": "quantitative",
          "scale": {
            "type": "threshold",
            "domain": [10000, 100000, 500000],
            "range": ["#fdbbe85", "#fd8d3c", "#e6550d", "#a63603"]
          }
        }
      },
      "tooltip": [
        {"field": "properties.NAME", "type": "nominal", "title": "Country"},
        {"field": "Active", "type": "quantitative"}
      ]
    }
  ]
}
```

```

    ]
  }
}
]
}

```



The code is available at:

https://github.com/KaneSec/vega_lite/blob/main/3_choropleth_map/js/empty_data_map.vg.json

Cheers,

Kane



Kane Li STAFF 4mth

Also, for the background colour of the visualisation, you will need to add a config for the whole visualisation: check the example here:

https://kanesec.github.io/vega_lite/2021/1.%20Intro%20to%20vega-lite/2.%20dupliacte%20the%20european%20city%20example/

You can add this before the last "}".

```

"config": {
  "background": "#F3FAF9"
}

```

If you only want to highlight the ocean, you will need a topojson file that contains the ocean outlines.

Cheers,

Kane

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