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# Annotation on stacked bar chart #733

K  **Kumara Kumarasinghe**
   4 months ago in **Assignments – Vis 2 Vega-Lite**
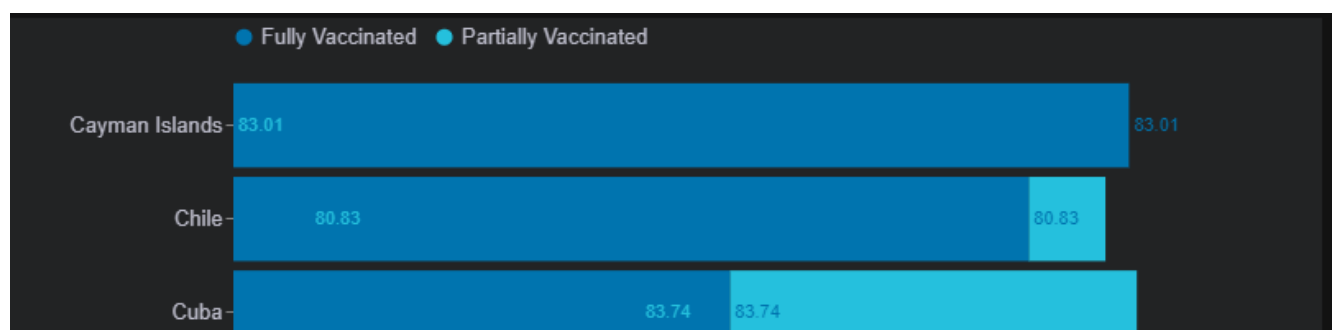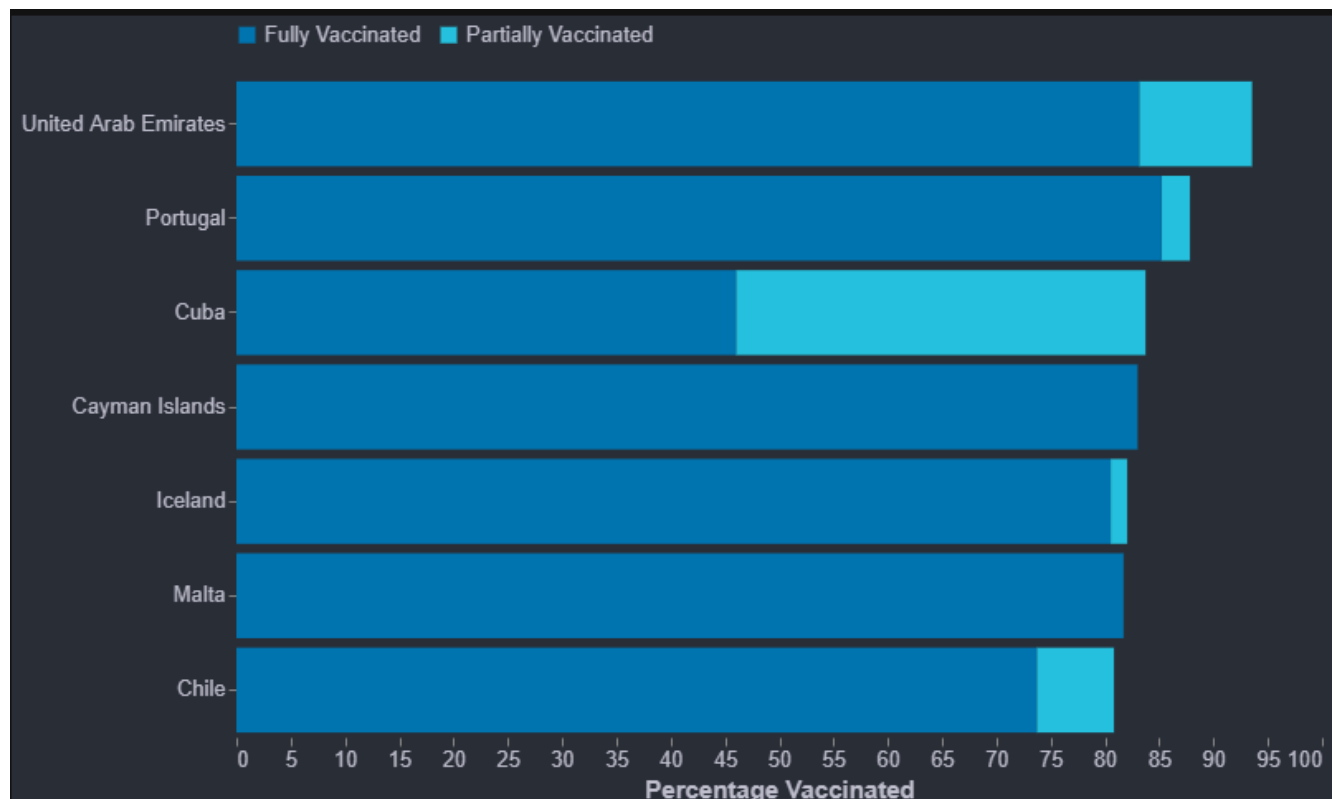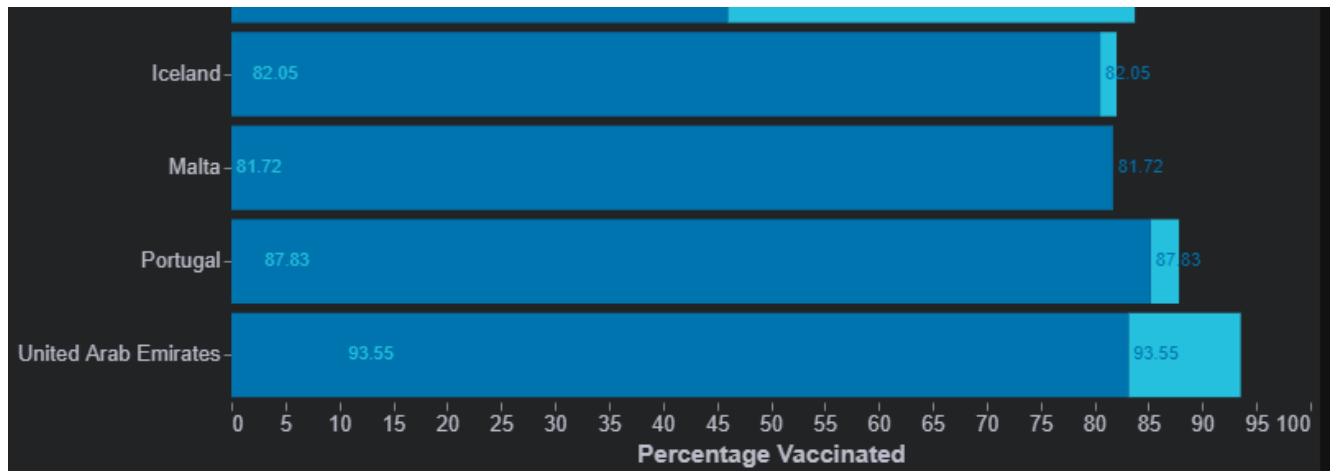
**114**
VIEWS

Hi,

Im trying to add a text annotation at the end of a sorted stacked bar chart, but when i add the layer of text, the sort gets removed and theres a double annotation in the chart (images before and after added below)

Im using a fold as part of the transformation, and using the key for colour coding the category, so that might be theres two annotations. Is it possible to have a single annotation for a stacked bar chart created with "fold"?

Link to code if needed: https://github.com/user0028/visualization2/blob/main/JS/top.vg.json

(line 79 onwards is the adding of text layer)

# 1 Answer

K  **Kane Li**  **STAFF**
4 months ago

✓  Hi Kumara,

Good work.

It is a really tough question. Got it work with some walkaround: by defining a fake opacity encoding and then sort the data based on that. You need "value" for the text encoding but the value is also reversed.

Check the code below:

```
{
    "$schema": "https://vega.github.io/schema/vega-lite/v5.json",
    "width": 657, "height": 400,
    "background": "#292d36",
    "config": {
      "style": {
        "cell": {
          "stroke": "transparent"
        }
      },
      "axis": {"gridColor": "#414146", "titleColor":"#bebecc", "labelColor":"#bebecc", "la
      "legend": {"titleColor":"#bebecc", "labelColor":"#bebecc", "orient": "top", "labelFo
    },
    "data": {"url": "https://raw.githubusercontent.com/user0028/visualization2/main/Data/o

    "transform": [
        {
            "filter": {"not": {"field": "location", "oneOf": ["World", "Asia", "Europe", "
        },
        {
          "calculate": "toNumber(datum.people_vaccinated_per_hundred)",
          "as": "people_vaccinated_per_hundred"
        },
```

```
            {
                "calculate": "toNumber(datum.people_fully_vaccinated_per_hundred)",
                "as": "people_fully_vaccinated_per_hundred"
            },

            {

                "aggregate": [
                    {"op": "max", "field": "people_vaccinated_per_hundred", "as": "Total Vacci
                    {"op": "max", "field": "people_fully_vaccinated_per_hundred", "as": "Fully
                ],
                "groupby": ["location"]
            },
            {"calculate": "datum['Total Vaccinated']-datum['Fully Vaccinated']", "as": "Partia
            {

                "window": [{
                    "op": "rank",
                    "as": "rank"
                }],
                "sort": [{ "field": "Total Vaccinated", "order": "descending" }]
            },
            {
                "filter": "datum.rank <= 7"
            },
            {
                "fold": ["Partially Vaccinated", "Fully Vaccinated"]
            }

    ],
    "encoding": {


        "x": {
                "field": "value", "type": "quantitative", "title":"Percentage Vaccinated",
                "axis":{"grid": false, "domain": false}
        },
        "y": {
                    "field": "location", "type": "ordinal", "sort": "opacity", "title":"Countr
            },

        "opacity": { "field": "rank", "scale":{
            "range":[1,1]
        }},
        "tooltip":[
            {"field": "Fully Vaccinated", "title": "% of People Fully Vaccinated"},
            {"field": "Partially Vaccinated", "title": "% People of Partially Vaccinated"},
            {"field": "Total Vaccinated", "title": "% Of People With At Least One Dose"}

        ]
    },
    "layer": [
        {
            "mark": {"type": "bar"},
            "encoding": {
                "color":{
                        "field":"key",
                        "scale": {"scheme": "darkblue"}
                    }
```

```
        }
      },{
      "transform": [
        {"calculate": "datum['Total Vaccinated'] - datum.value", "as": "value_2"}
      ],
        "mark": {
            "type": "text",
            "align": "left",
            "baseline": "middle",
            "dx": 3,
            "color": "white"
        },
        "encoding": {
            "text": { "field": "value_2", "type": "quantitative" }
        }
      }]

    }
```

cheers,

Kane

K   **Kumara Kumarasinghe**  4mth

Hi Kane,

Was stuck here for a while. Thank you for the fix!

Is it not possible to just have the total on the right side of the bar instead of two text marks?
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