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## Warning Infinite Extent #332

D

Daryl Loo

5 months ago in **Assignments – Vis 2 Vega-Lite**

520

VIEWS

Hi, I am receiving a warning for infinite extent for field "Proportion" which causes vega lite editor to not render the map, but I am unsure as to the cause.

I checked, and all the type for the field Proportion has been set to quantitative. Could I get some pointer as to the root of this warning

Thank You!

```
{
  "$schema": "https://vega.github.io/schema/vega-lite/v5.json",
  "title": "Number of Military Personnel",
  "width": 1200,
  "height": 900,
  "projection": {"type": "equiangular"},
  "data": {
    "url": "https://raw.githubusercontent.com/Daryl-Loo/FIT3179/main/map/WB_countries_Admi",
    "format": {"type": "topojson", "feature": "name"}
  },
  "params": [
    {
      "name": "Year_selection",
      "value": 2000,
      "bind": {"input": "range", "min": 2000, "max": 2018, "step": 1}
    }
  ],
  "transform": [
    {
      "lookup": "properties.ISO_A3",
      "from": {
        "data": {
          "url": "https://raw.githubusercontent.com/Daryl-Loo/FIT3179/ba64774edd7c9f957ea5"
        },
        "key": "Country Code",
        "fields": ["Proportion"]
      }
    },
    {"filter": "datum.Year == Year_selection"}
  ],
  "mark": {"type": "geoshape"},
  "encoding": {
    "color": {"field": "Proportion", "type": "quantitative"},
    "tooltip": [
```

```

    {"field": "properties.NAME_EN", "type": "nominal", "title": "Country"},
    {"field": "Proportion", "type": "quantitative", "title": "Armed forces personnel (%
  ]
},
"config": {}
}

```

## 1 Answer

K

Kane Li STAFF

5 months ago



Hi Daryl,

Thanks for the question.

This is actually a very advanced problem. I have made this post public to benefit more people.

1. In order to use "datum.Year == Year\_selection" in Line 31, you need to include "year" in Line 28. Otherwise, the second data will only have "Proportion" loaded. Vega-lite cannot find "Year".

2. If you fix this, you will find that - only the year 2018 can be loaded. The problem is - the join in Vega-lite, for each country in the first dataset, Vega-lite will only store one row of data from the second table that matches each country. Therefore, only the last year 2018 data will be stored.

to solve this issue, you will need to exchange the position of your topojson and csv file. i.e., you need to match a country boundary from the topojson file for each row of data in the csv file. I have attached the correct codes here.

```

{
  "$schema": "https://vega.github.io/schema/vega-lite/v5.json",
  "title": "Number of Military Personnel",
  "width": 800,
  "height": 600,
  "projection": {"type": "equiangular"},
  "params": [
    {
      "name": "Year_selection",
      "value": 2018,
      "bind": {"input": "range", "min": 2000, "max": 2018, "step": 1}
    }
  ],
  "data": {
    "url": "https://raw.githubusercontent.com/Daryl-Loo/FIT3179/ba64774edd7c9f957ea5ea6bc6",
    "transform": [
      {

```

```

    "lookup": "Country Code",
    "from": {
      "data": {
        "url": "https://raw.githubusercontent.com/Daryl-Loo/FIT3179/main/map/WB_countrie
        "format": {"type": "topojson", "feature": "name"}
      },
      "key": "properties.ISO_A3"
    },
    "as": "geo"
  },
  {"filter": "datum.Year == Year_selection"}
],
"mark": {"type": "geoshape"},
"encoding": {
  "shape": {
    "field": "geo",
    "type": "geojson"
  },
  "color": {"field": "Proportion", "type": "quantitative"},
  "tooltip": [
    {"field": "properties.NAME_EN", "type": "nominal", "title": "Country"},
    {"field": "Proportion", "type": "quantitative", "title": "Armed forces personnel (%
  ]
},
"config": {}
}

```

Cheers,

Kane

**D** **Daryl Loo** 5mth  
 Also, If I wish to layer the map with another map, would it be correct to say the layer goes after the prams, and encloses the transform, mark and encoding  
 ...

**D** **Daryl Loo** 5mth  
 Hi Kane,

Thank you for your assistance!

To clarify, because I am filtering by year in the transform, instead of telling Vega Lite to match country codes are return the proportion, I should be telling vega lite to match country code and return the year(which is then filtered according to the params).  
 ...

**L** **K** **Kane Li** **STAFF** 5mth  
 Hi Daryl,

Layers can be anywhere, but params should be outside the brackets of layers.

It is suggested that you have params at the beginning for easy reading.

Cheers,

Kane  
...