Week 9 Homework

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Lab: 25

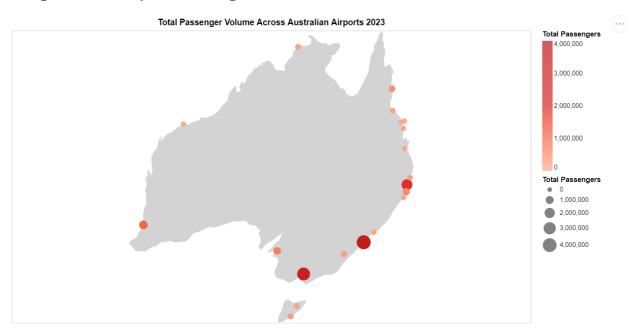
Tutor: Ria Kalachetty

Github url:

https://github.com/aidanchuayh/week9homework/blob/main/week9homework.html

Visualization url: http://127.0.0.1:5500/week9homework.html

Proportional Symbol Map



Domain.

Air travel transportation.

The visualized dataset.

Attribute types.

```
'data.frame':
              1180 obs. of 15 variables:
             : chr "ADELAIDE" "ADELAIDE" "ADELAIDE" ...
$ AIRPORT
              : int 409 410 411 412 413 414 415 416 417 418 ...
 X id
              $ Year
             : int 1 2 3 4 5 6 7 8 9 10 ...
: int 293965 278620 314477 315393 294271 279068 321154 310165 308230 345636 ...
 Month
$ Dom Pax In
Dom_Pax_Out : int 298986 272735 318070 315365 296479 275957 325056 307344 308039 343411 ...
$ Dom_Pax_Total: int 592951 551355 632547 630758 590750 555025 646210 617509 616269 689047 ...
             : int 58221 44990 38857 40996 38454 40583 55934 49885 53080 55867 ...
$ Int_Pax_In
 Int_Pax_Out
             : int
                    49255 35260 39981 46294 43024 47455 49299 49320 51858 43338
 Int_Pax_Total: int 107476 80250 78838 87290 81478 88038 105233 99205 104938 99205 ...
             : int 352186 323610 353334 356389 332725 319651 377088 360050 361310 401503 ...
$ Pax_In
                    348241 307995 358051 361659 339503 323412 374355 356664 359897 386749 ...
 Pax_Out
                int
                    700427 631605 711385 718048 672228 ...
 Pax_Total
              : num
 Latitude
                num
                    -34.9 -34.9 -34.9 -34.9 ...
 Longitude
               num 139 139 139 139 ..
```

Sources and author:

Link: https://www.data.gov.au/data/dataset/airport-traffic-data/resource/38bdc971-cb22-4894-b19a-814afc4e8164

Public dataset released by the Australian Government under the Department of Infrastructure, Transport, Regional Development and Communications.

• Data Transformation.

None.

· Justification of Map Idiom.

I used a proportional map symbol because it effectively visualizes the total amount of visitors per Airport by using both the size channel and the area mark. This leads to a clear and interpretable visualization as it leaves no room for error as usually darker colors and larger areas are associated with higher values.

I didn't pick a choropleth map as it isn't used for point locations, they are instead better at representing data associated with areas. I also didn't pick a dot map as the size channel won't be utilized making the visualization harder to read.