

Data visualization

Akash Chauhan

11/20/2021

```
install.packages("tidyverse")
```

```
## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.1'  
## (as 'lib' is unspecified)
```

```
library(tidyverse)
```

```
## -- Attaching packages ----- tidyverse 1.3.1 --
```

```
## v ggplot2 3.3.5    v purrr  0.3.4  
## v tibble  3.1.5    v dplyr  1.0.7  
## v tidyr   1.1.4    v stringr 1.4.0  
## v readr   2.0.2    v forcats 0.5.1
```

```
## -- Conflicts ----- tidyverse_conflicts() --
```

```
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag()    masks stats::lag()
```

```
library(readr)
```

```
mmsa_icu_beds <- read_csv("/cloud/project/mmsa-icu-beds.csv")
```

```
## Rows: 136 Columns: 7
```

```
## -- Column specification -----
```

```
## Delimiter: ","
```

```
## chr (2): MMSA, total_percent_at_risk
```

```
## dbl (5): high_risk_per_ICU_bed, high_risk_per_hospital, icu_beds, hospitals,...
```

```
##
```

```
## i Use `spec()` to retrieve the full column specification for this data.
```

```
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

```
head(mmsa_icu_beds)
```

```
## # A tibble: 6 x 7
```

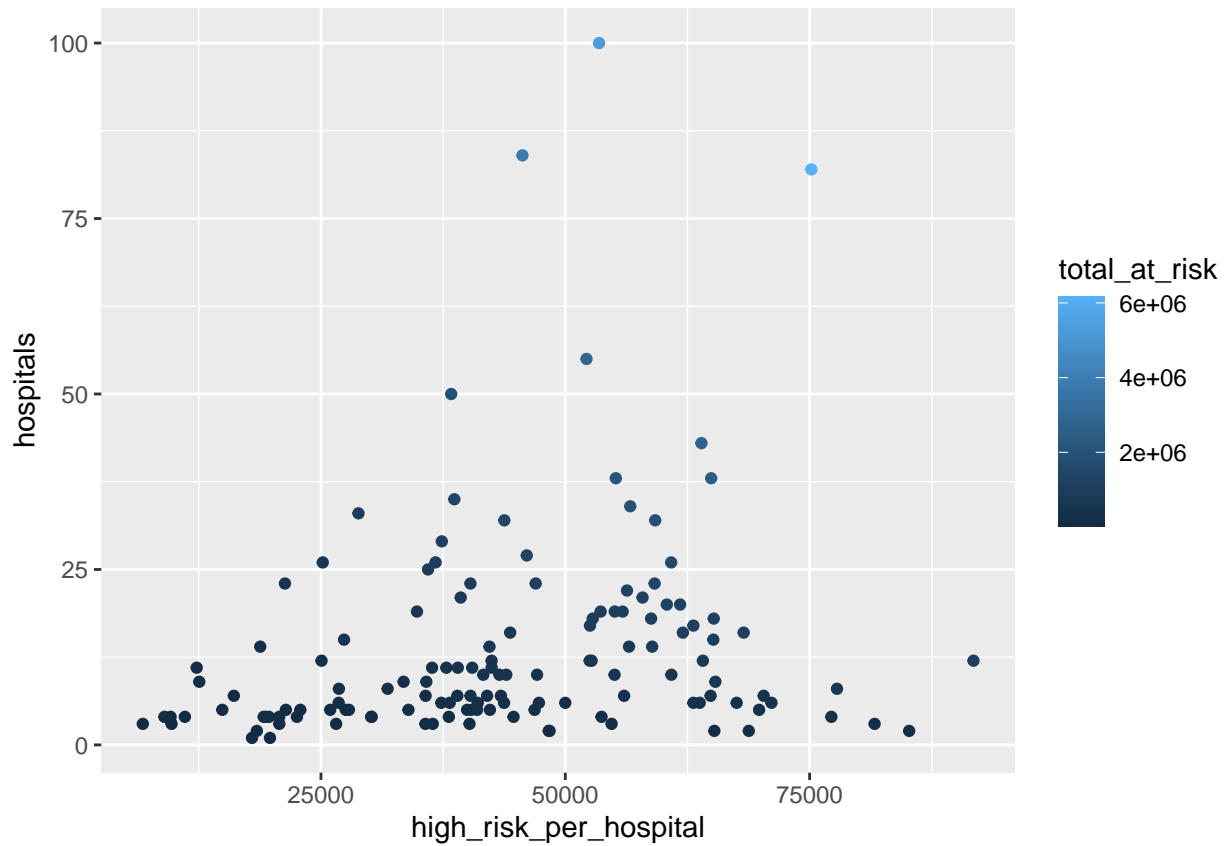
```
##   MMSA      total_percent_a~ high_risk_per_I~ high_risk_per_h~ icu_beds hospitals  
##   <chr>    <chr>                <dbl>         <dbl>    <dbl>    <dbl>  
## 1 San Jua~ 52.88%                NA             NA      NA      NA  
## 2 Manhatt~ 47.29%                4490.          8980.     8       4  
## 3 Hilton ~ 62.72%                3904.          36439.    28      3  
## 4 Kahului~ 59.13%                3861.          19303.    20      4  
## 5 Spartan~ 66.12%                3786.          85188.    45      2  
## 6 Baton R~ 66.60%                3460.          39001.   124     11
```

```
## # ... with 1 more variable: total_at_risk <dbl>
```

```
library(tidyverse)
```

```
ggplot(data= mmsa_icu_beds) + geom_point(mapping = aes(x= high_risk_per_hospital , y= hospitals , color=
```

```
## Warning: Removed 1 rows containing missing values (geom_point).
```



```
# Compute a histogram of `Patients per ICU bed`  
ggplot( mmsa_icu_beds, aes(high_risk_per_ICU_bed)) +  
  geom_histogram(bins = 25)
```

```
## Warning: Removed 1 rows containing non-finite values (stat_bin).
```

