

Shiny Application and Reproducible Pitch

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2022-06-17

Diamond Explorers

This Application uses default diamond data in package ggplot2. To demonstrate various capabilities from the Developing Data Products Course. The Application provides visualization about diamonds with various factors.

- Using Shiny UI Server Application.
- Including Input Widgets (Drop down lists, check boxes, and Slide Bar).
- Using Reactive function.
- Full help page (Documentation).

Shiny Application Link : <https://elijahzhang.shinyapps.io/Diamond2/> Github Repository Link : <https://github.com/elijahzhang2021/Course-Project-Shiny-Application-and-Reproducible-Pitch>

The Data

Data str

```
library(ggplot2)
```

```
## Warning: package 'ggplot2' was built under R version 4.1.3
```

```
str(diamonds)
```

```
## tibble [53,940 x 10] (S3: tbl_df/tbl/data.frame)
## $ carat   : num [1:53940] 0.23 0.21 0.23 0.29 0.31 0.24 0.24 0.26 0.22 0.23 ...
## $ cut     : Ord.factor w/ 5 levels "Fair"<"Good"<...: 5 4 2 4 2 3 3 3 1 3 ...
## $ color   : Ord.factor w/ 7 levels "D"<"E"<"F"<"G"<...: 2 2 2 6 7 7 6 5 2 5 ...
## $ clarity: Ord.factor w/ 8 levels "I1"<"SI2"<"SI1"<...: 2 3 5 4 2 6 7 3 4 5 ...
## $ depth   : num [1:53940] 61.5 59.8 56.9 62.4 63.3 62.8 62.3 61.9 65.1 59.4 ...
## $ table   : num [1:53940] 55 61 65 58 58 57 57 55 61 61 ...
## $ price   : int [1:53940] 326 326 327 334 335 336 336 337 337 338 ...
## $ x       : num [1:53940] 3.95 3.89 4.05 4.2 4.34 3.94 3.95 4.07 3.87 4 ...
## $ y       : num [1:53940] 3.98 3.84 4.07 4.23 4.35 3.96 3.98 4.11 3.78 4.05 ...
## $ z       : num [1:53940] 2.43 2.31 2.31 2.63 2.75 2.48 2.47 2.53 2.49 2.39 ...
```

Shiny App

Diamonds Explorer

Sample Size

1,000

53,940

1

5,501

11,001

22,001

33,001

44,001

53,940

X

carat

Y

color

Color

None

☐ Jitter

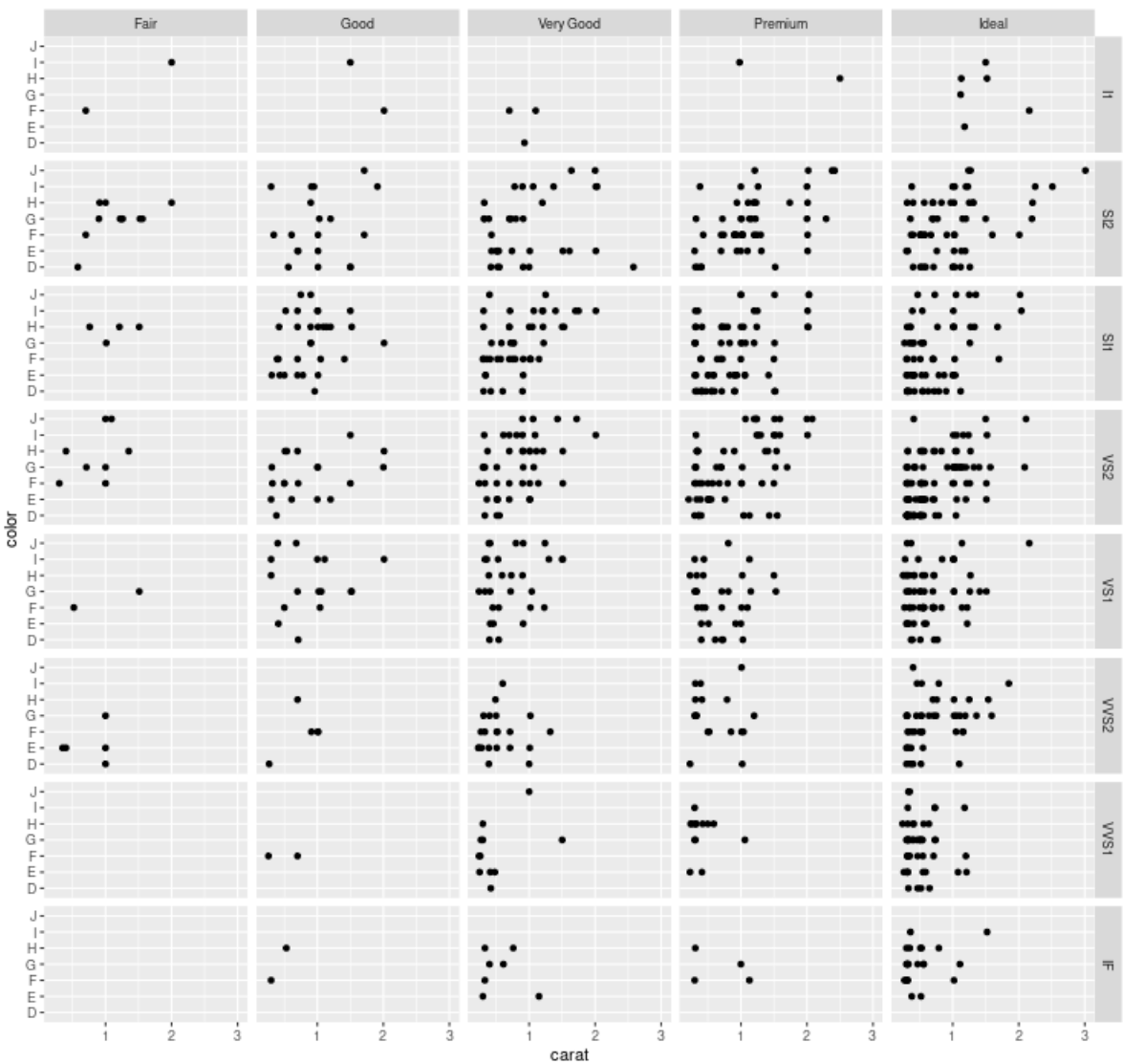
☐ Smooth

Facet Row

clarity

Facet Column

cut



The screenshot of Shiny App