

ggplot2 101

ggplot2

Introduction

- Most popular visualisation framework in R
- Cheatsheet (Rstudio → Help → Cheatsheets → Data Visualisation with ggplot2)
- Usage:

```
diamonds %>%  
  ggplot(data = .,  
    aes(x = x,  
        y = y,  
        col = price,  
        size = table)) +  
  geom_point(alpha = .2) +  
  facet_grid(cut ~ color) +  
  scale_color_continuous(low = "green",  
    high = "red")
```

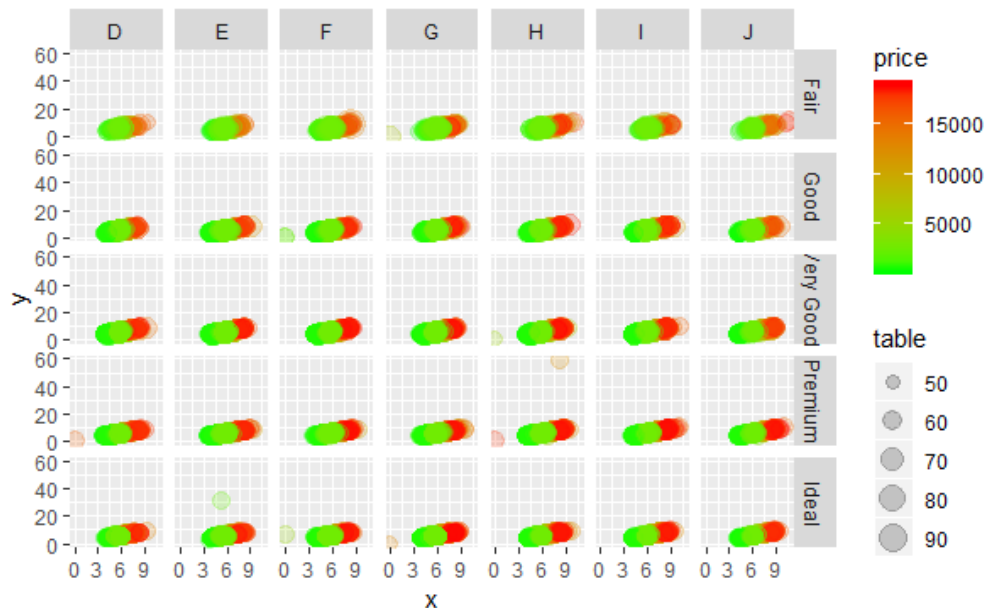
Data

Aesthetics

Layer

Faceting

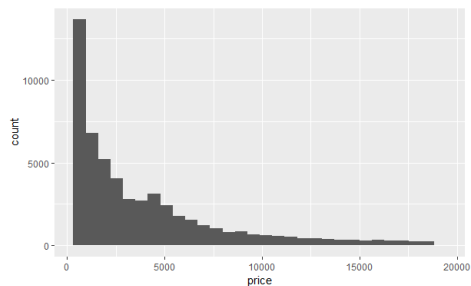
Scales



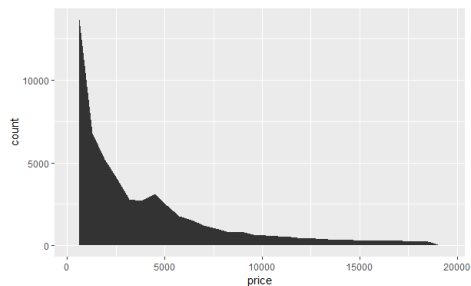
ggplot2

One Variable

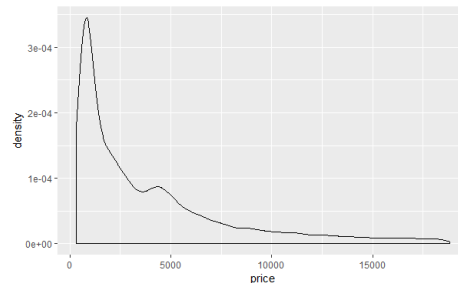
Continuous



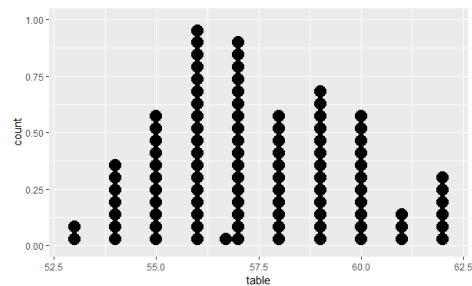
`geom_histogram()`



`geom_area()`

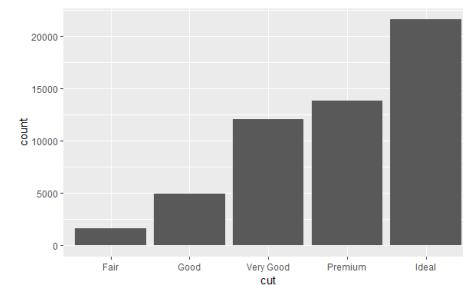


`geom_density()`



`geom_dotplot()`

Discrete



`geom_bar()`

ggplot2

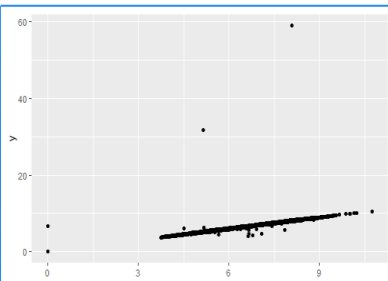
Two Variables

X

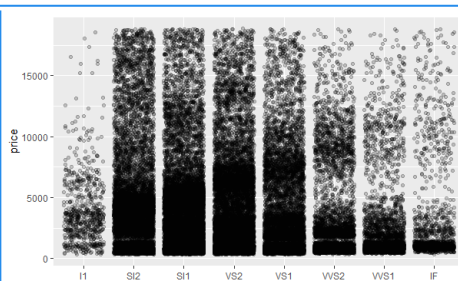
Continuous

Discrete

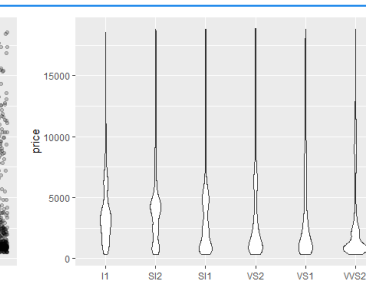
Continuous



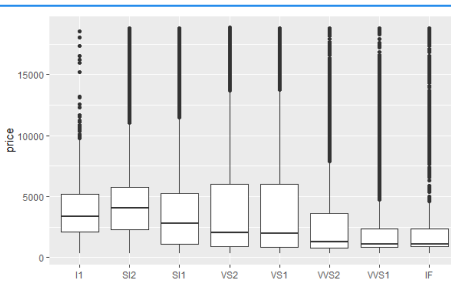
`geom_point()`



`geom_jitter()`

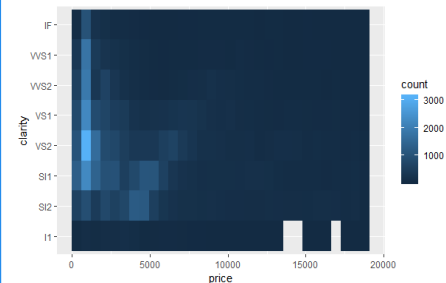


`geom_violin()`

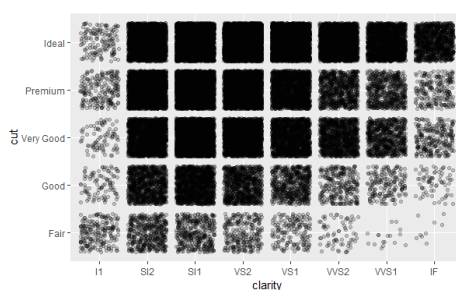


`geom_boxplot()`

Discrete



`geom_bin2d()`

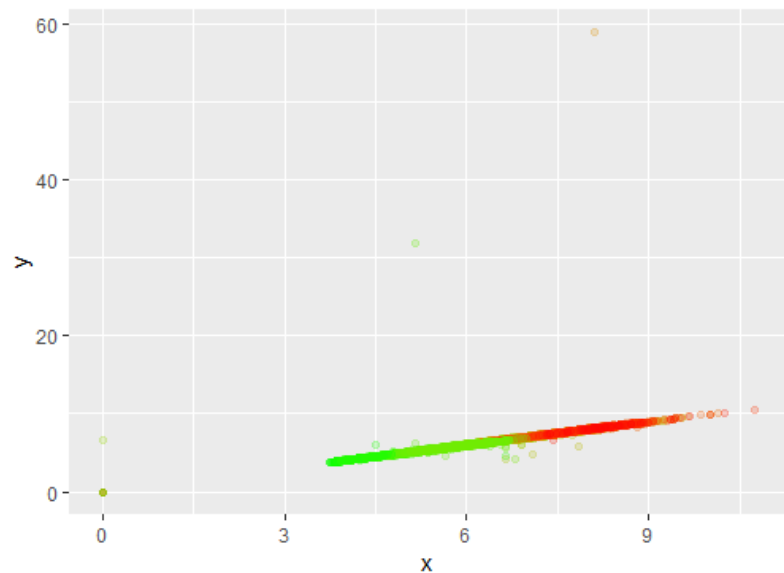


`geom_jitter()`

ggplot2

Further Dimensions

Color



Faceting

