

PP4RS | R Module

Slot 6 - Examples

Dora Simon

10.09.2018

Example

```
library(ggplot2)
diamonds_df<-as.data.frame(diamonds)
head(diamonds_df)
```

```
##   carat      cut color clarity depth table price     x     y     z
## 1  0.23    Ideal    E    SI2   61.5     55   326 3.95 3.98 2.43
## 2  0.21  Premium    E    SI1   59.8     61   326 3.89 3.84 2.31
## 3  0.23      Good    E    VS1   56.9     65   327 4.05 4.07 2.31
## 4  0.29  Premium    I    VS2   62.4     58   334 4.20 4.23 2.63
## 5  0.31      Good    J    SI2   63.3     58   335 4.34 4.35 2.75
## 6  0.24 Very Good    J   VVS2   62.8     57   336 3.94 3.96 2.48
```

Example

```
summary(diamonds_df$carat)
```

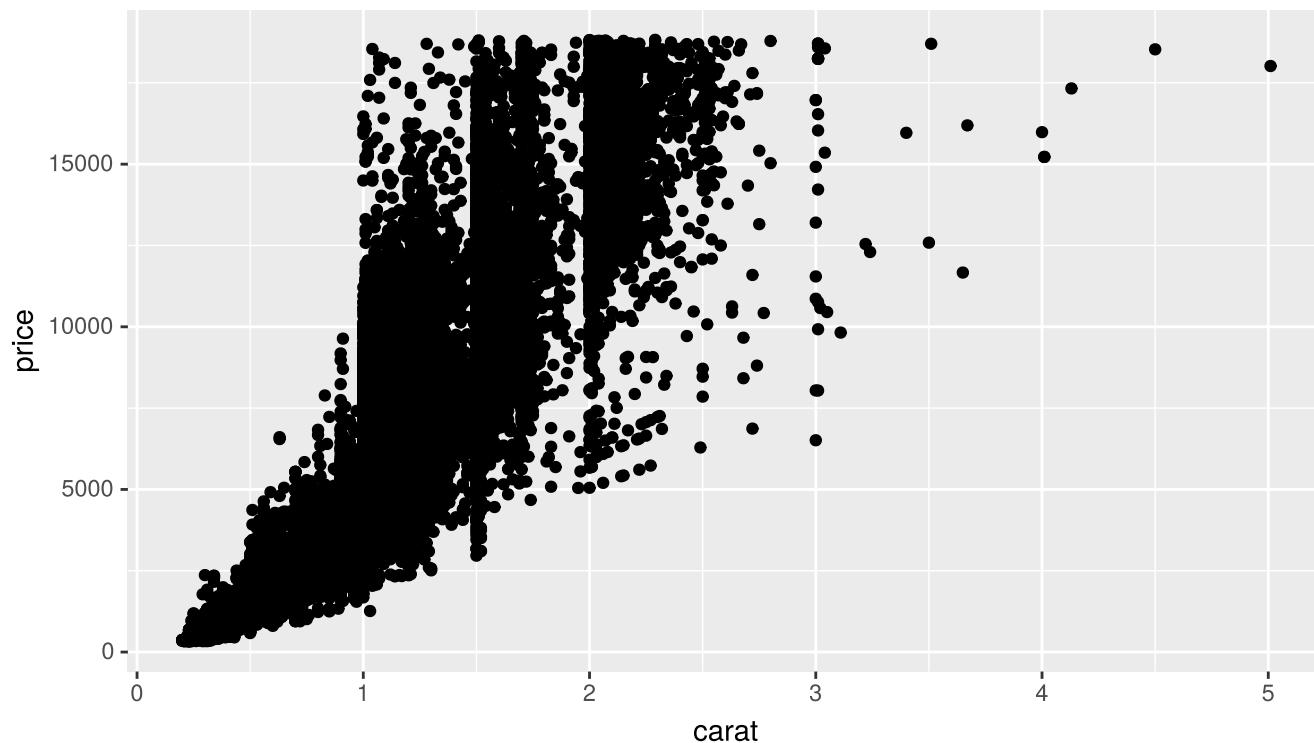
```
##      Min. 1st Qu. Median      Mean 3rd Qu.      Max.  
##  0.2000  0.4000  0.7000  0.7979  1.0400  5.0100
```

Example

```
ggplot(data=diamonds_df)
```

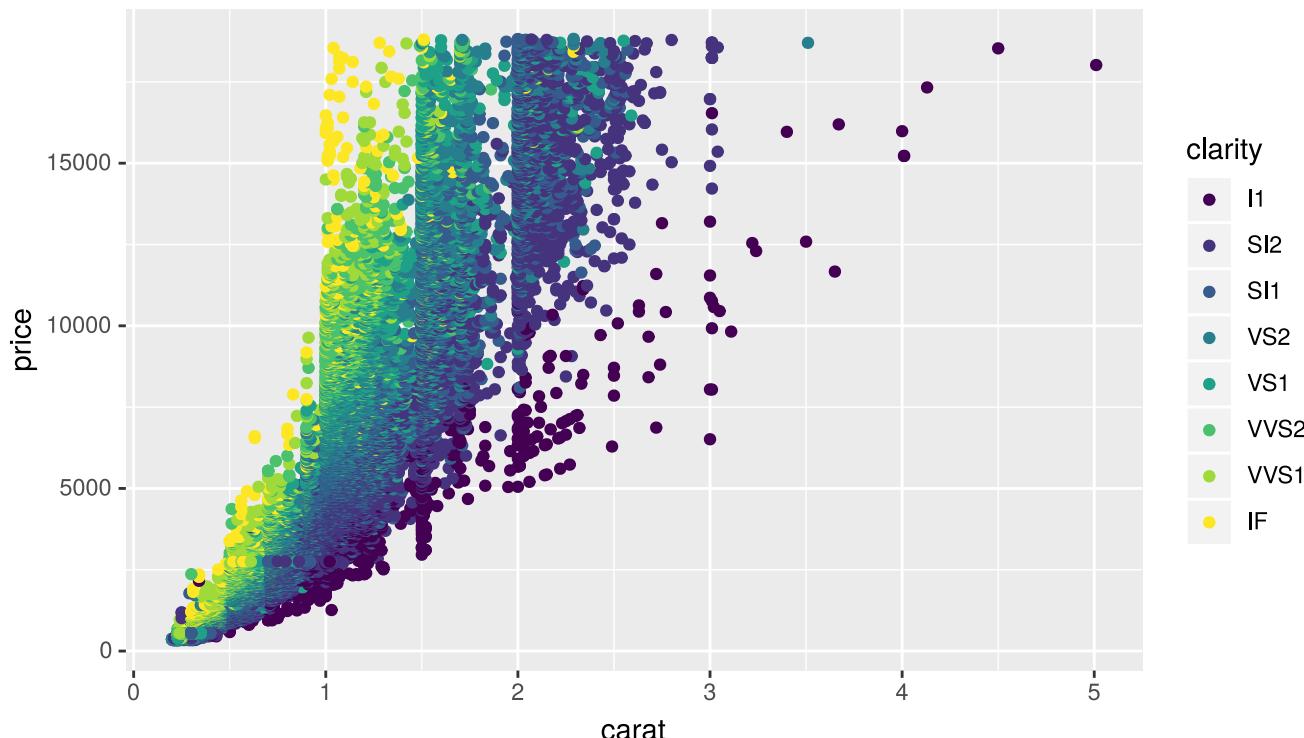
Example

```
ggplot(data=diamonds_df) + geom_point(mapping=aes(x=carat, y=price))
```



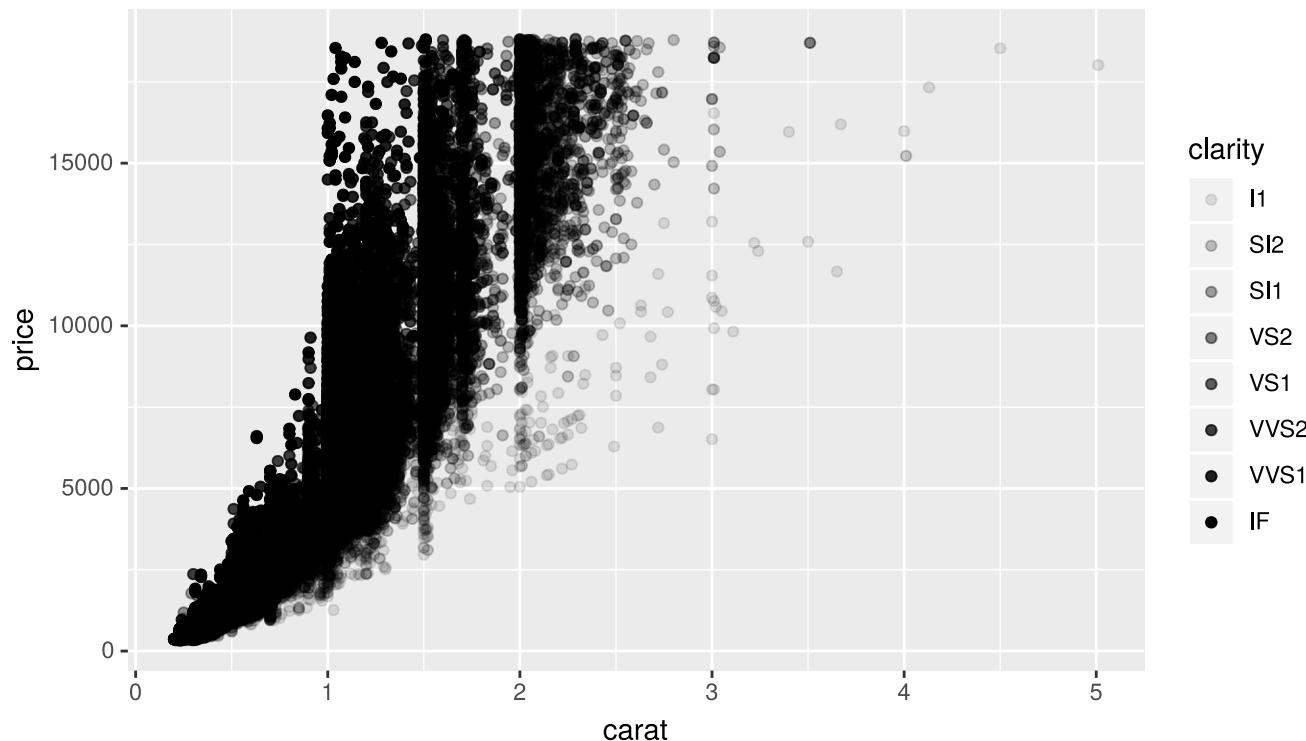
Example

```
ggplot(data = diamonds_df) +  
  geom_point(mapping = aes(x = carat, y = price, color = clarity))
```



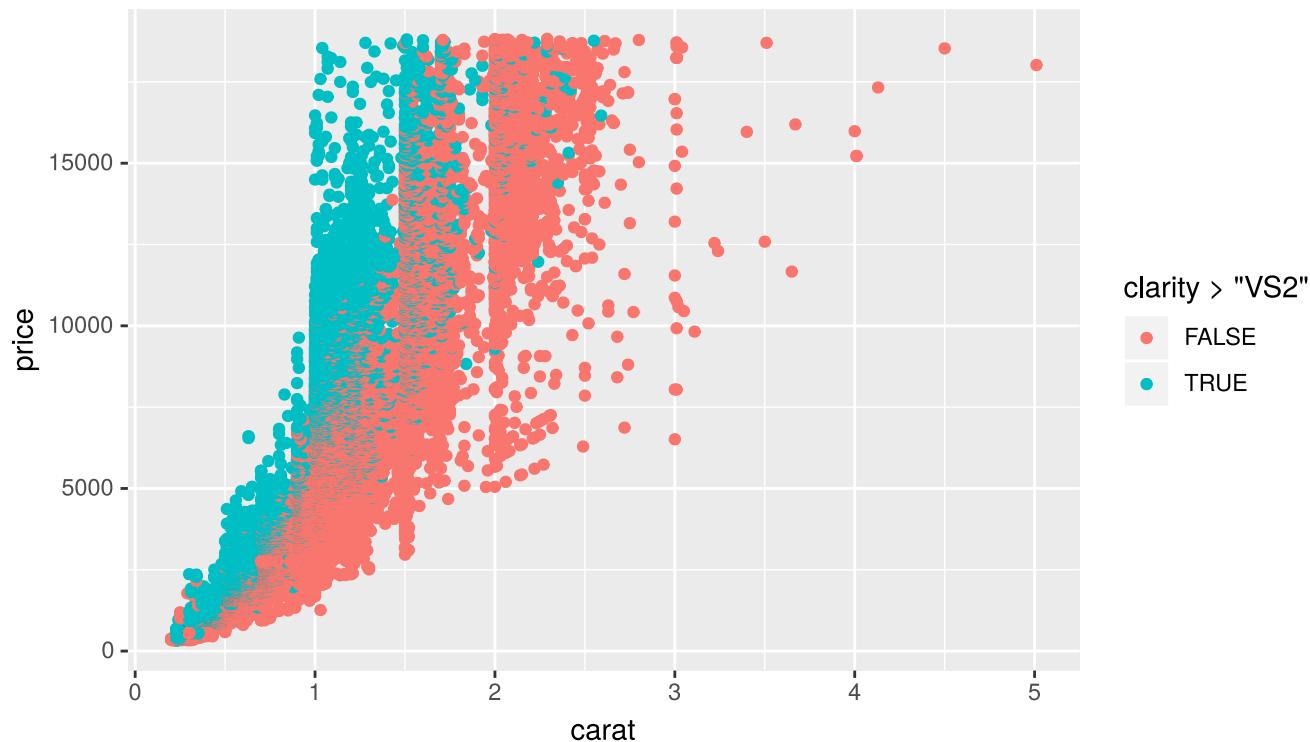
Example

```
ggplot(data = diamonds_df) +  
  geom_point(mapping = aes(x = carat, y = price, alpha = clarity))
```



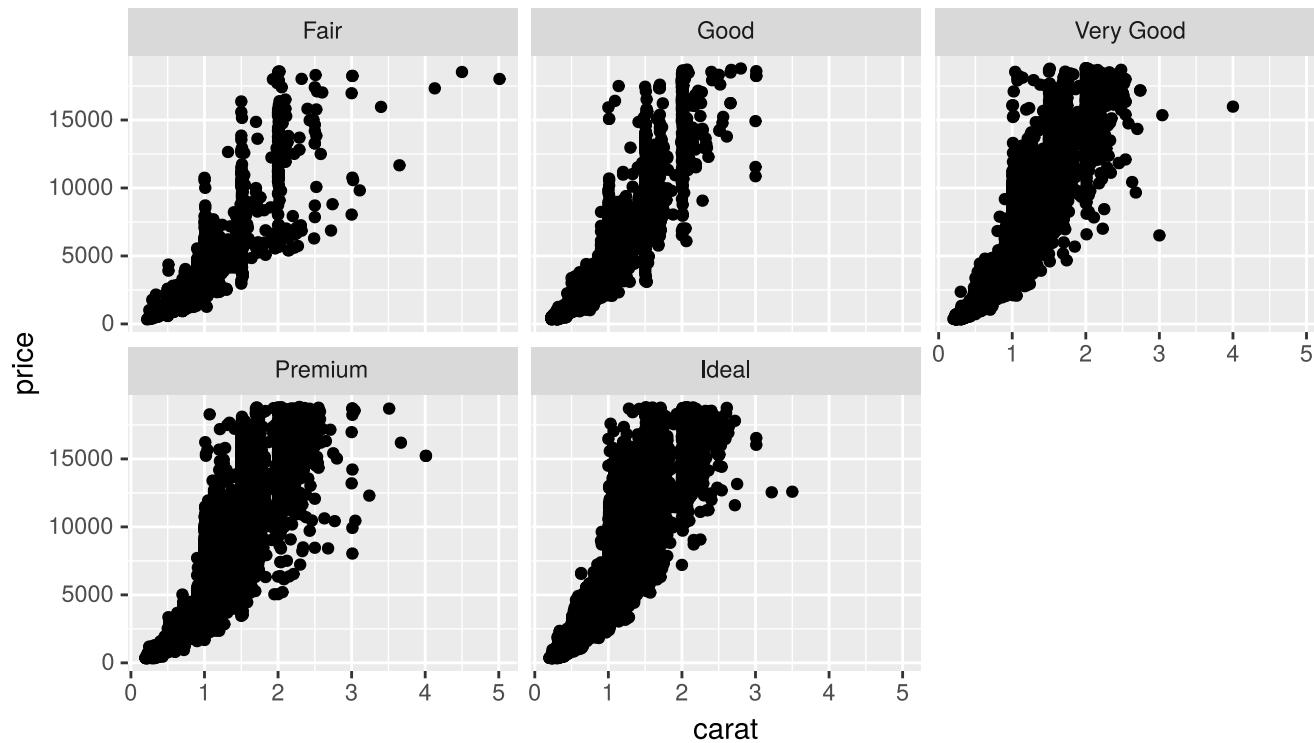
Example

```
ggplot(data = diamonds_df) +  
  geom_point(mapping = aes(x = carat, y = price,  
                           color = clarity > 'VS2'))
```



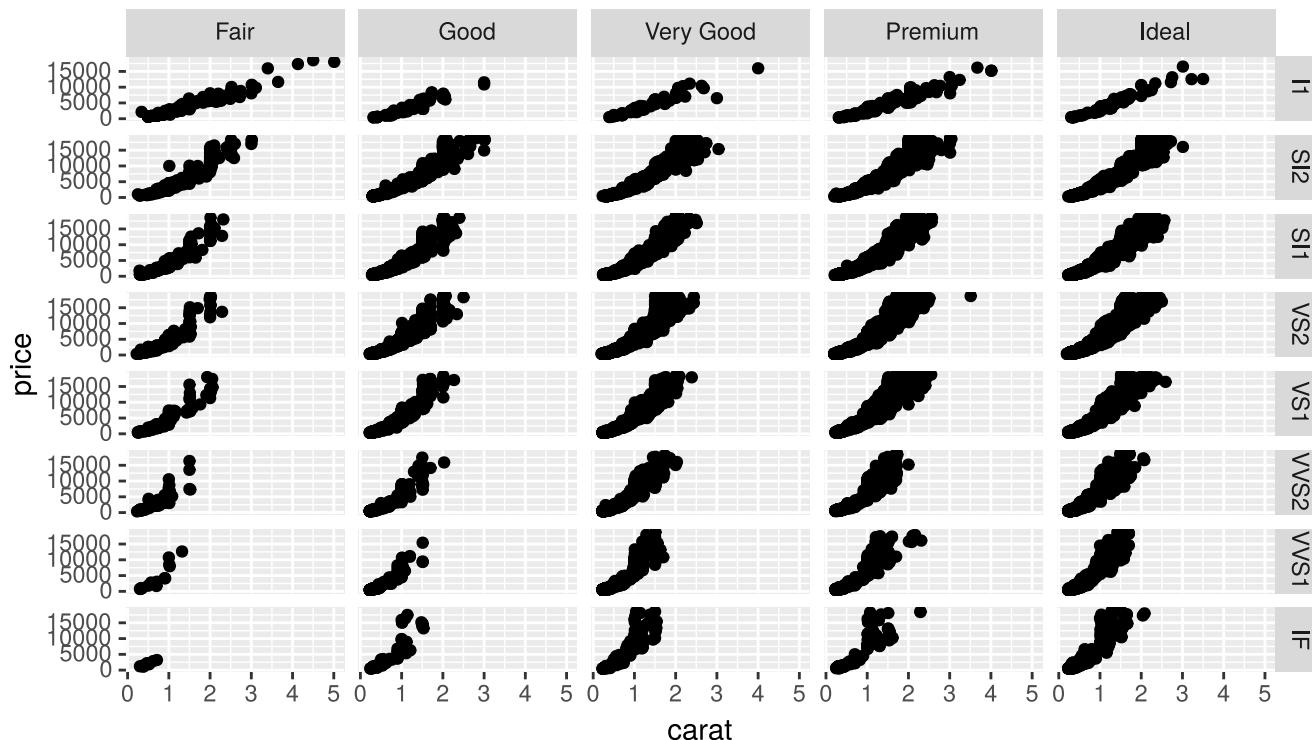
Example

```
ggplot(data = diamonds_df) +  
  geom_point(mapping = aes(x = carat, y = price)) +  
  facet_wrap(~ cut, nrow=2)
```



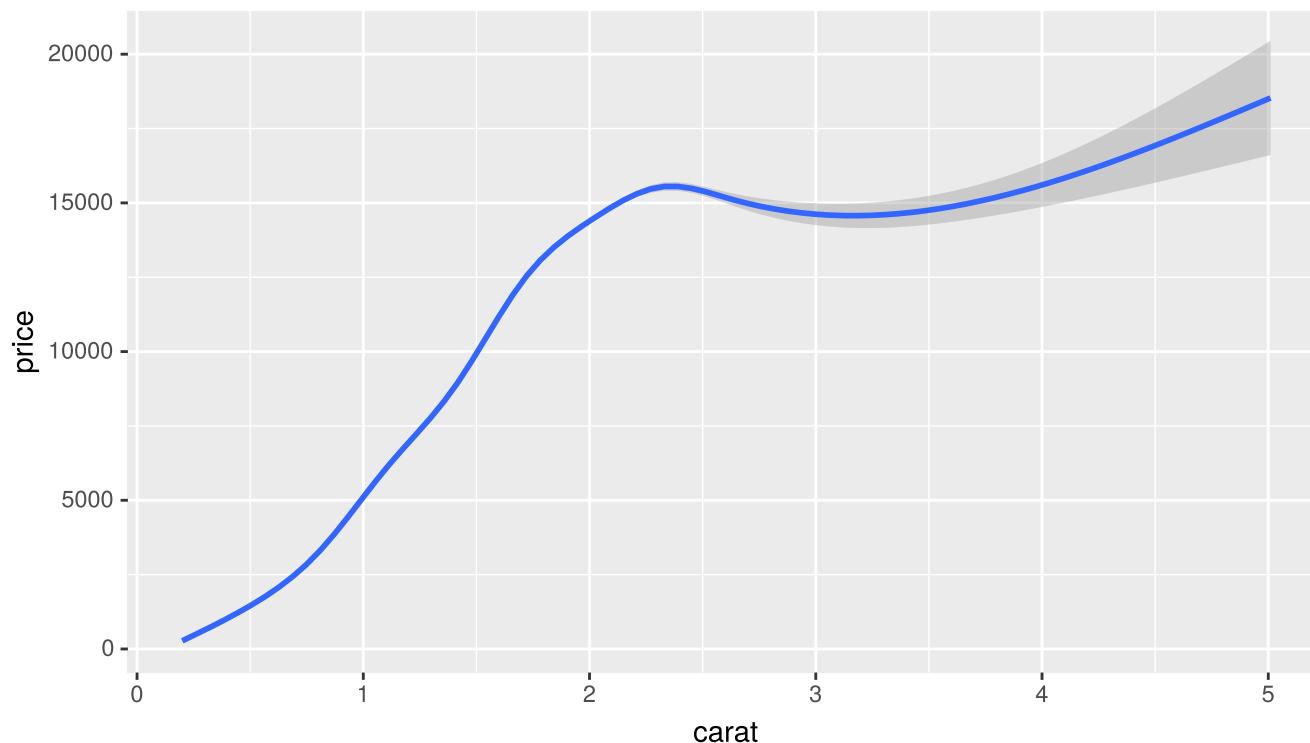
Example

```
ggplot(data = diamonds_df) +  
  geom_point(mapping = aes(x = carat, y = price)) +  
  facet_grid(clarity ~ cut)
```



Example

```
ggplot(data = diamonds_df) +  
  geom_smooth(mapping = aes(x = carat, y = price))
```



Example

```
ggplot(data = diamonds_df) +  
  geom_smooth(mapping = aes(x = carat, y = price, color=cut))
```

