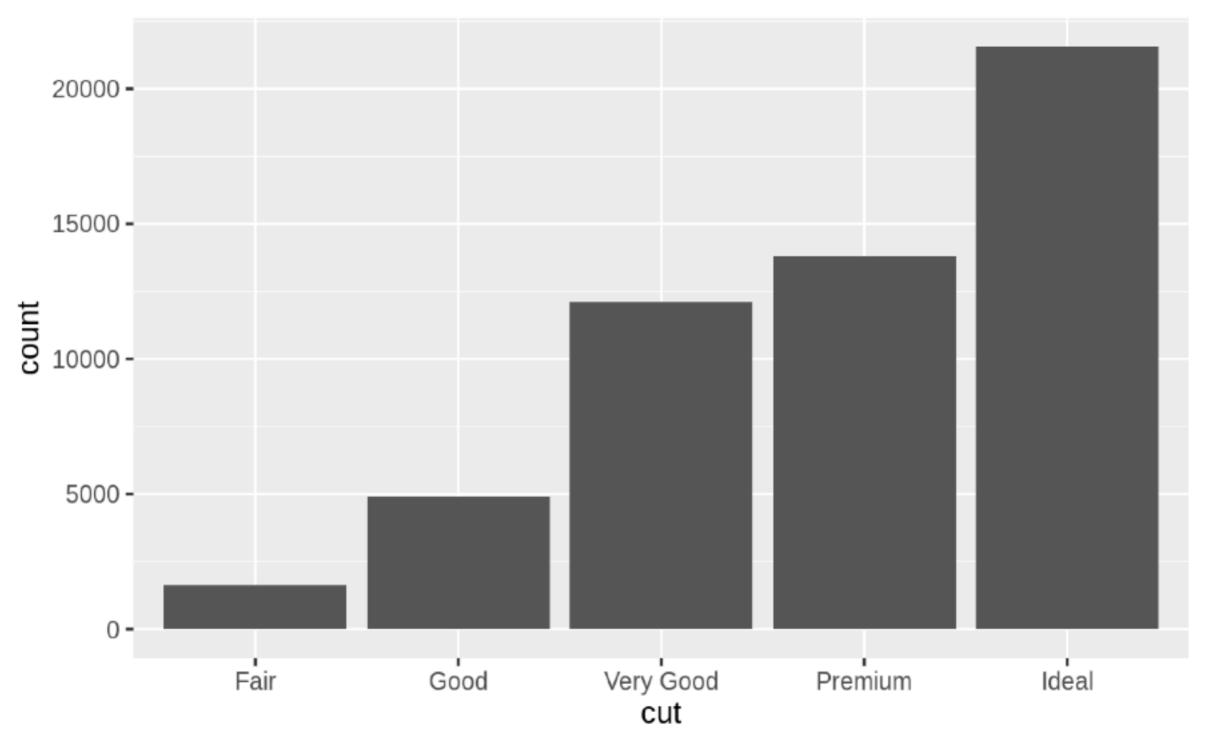
Many plots apply statistical transformations or summaries to the input data

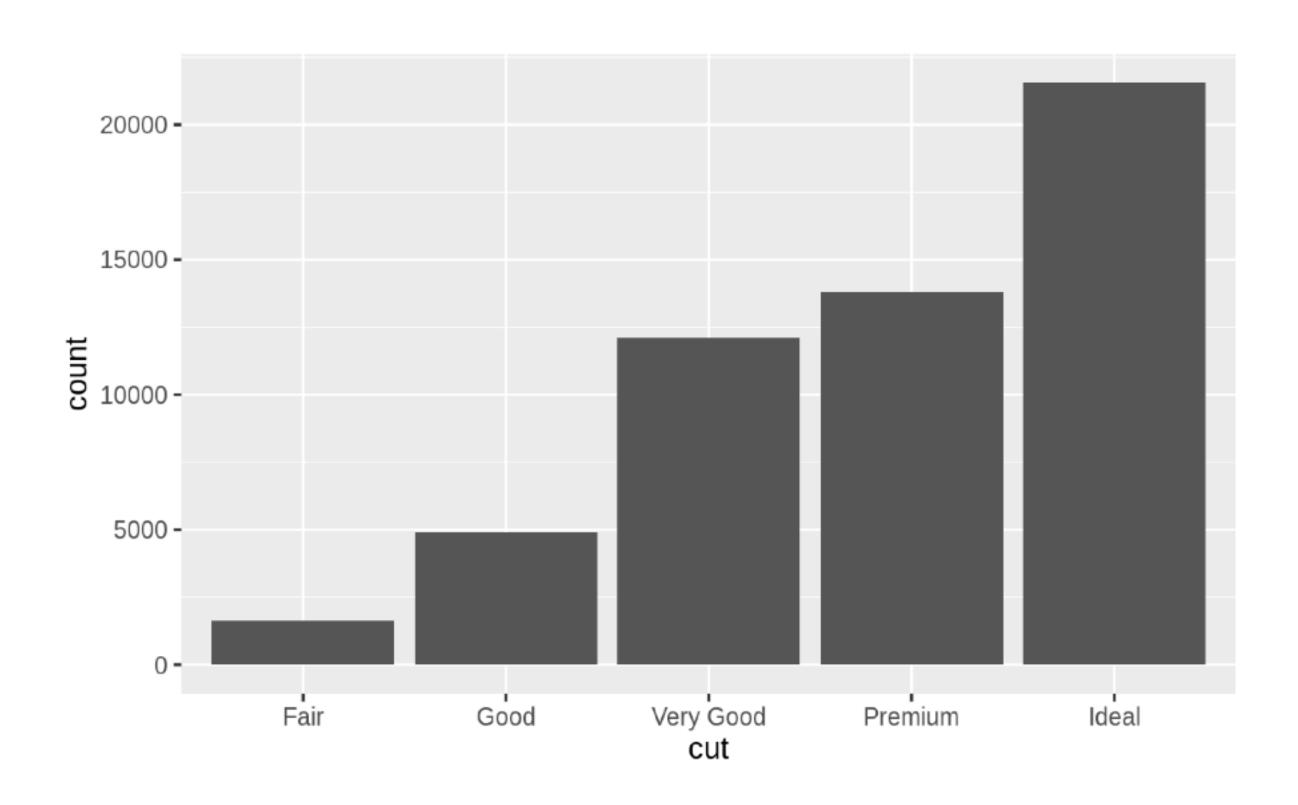
```
ggplot(data = diamonds) +
geom_bar(mapping = aes(x = cut))
```



#	# A tibble: 53,940 x 10											
	carat	cut	color	clarity	depth	table	price	Χ	У	Z		
	<dbl></dbl>	<ord></ord>	<ord></ord>	<ord></ord>	<dbl></dbl>	<dbl></dbl>	<int></int>	<dbl></dbl>	<dbl></dbl>	<dbl></dbl>		
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	0.290	Premium	I	VS2	62.4	58	334	4.2	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		
7	0.24	Very Good	I	VVS1	62.3	57	336	3.95	3.98	2.47		
8	0.26	Very Good	Н	SI1	61.9	55	337	4.07	4.11	2.53		
9	0.22	Fair	Е	VS2	65.1	61	337	3.87	3.78	2.49		
10	0.23	Very Good	Н	VS1	59.4	61	338	4	4.05	2.39		
#	. with	53,930 moi	re rows	5								

Many plots apply statistical transformations or summaries to the input data

```
ggplot(data = diamonds) +
  geom\_bar(mapping = aes(x = cut))
 # A tibble: 53,940 x 10
                color clarity depth table price
  carat cut
  <dbl> <ord>
                             <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <
                <ord> <ord>
 1 0.23 Ideal
                                         326
                             59.8
                                        326 3.89
 2 0.21 Premium
                             56.9
 3 0.23 Good
 4 0.290 Premium
                             63.3
 5 0.31 Good
       Very Good J
       Very Good I
       Very Good H
                     VS2
                             65.1
 9 0.22 Fair
10 0.23 Very Good H
                             59.4
                                         338 4
                                                  4.05 2.39
# ... with 53,930 more rows
```



Many plots apply statistical transformations or summaries to the input data

```
ggplot(data = mpg, mapping = aes(x = class, y = hwy)) +
  geom_boxplot() +
  coord_flip()
```

