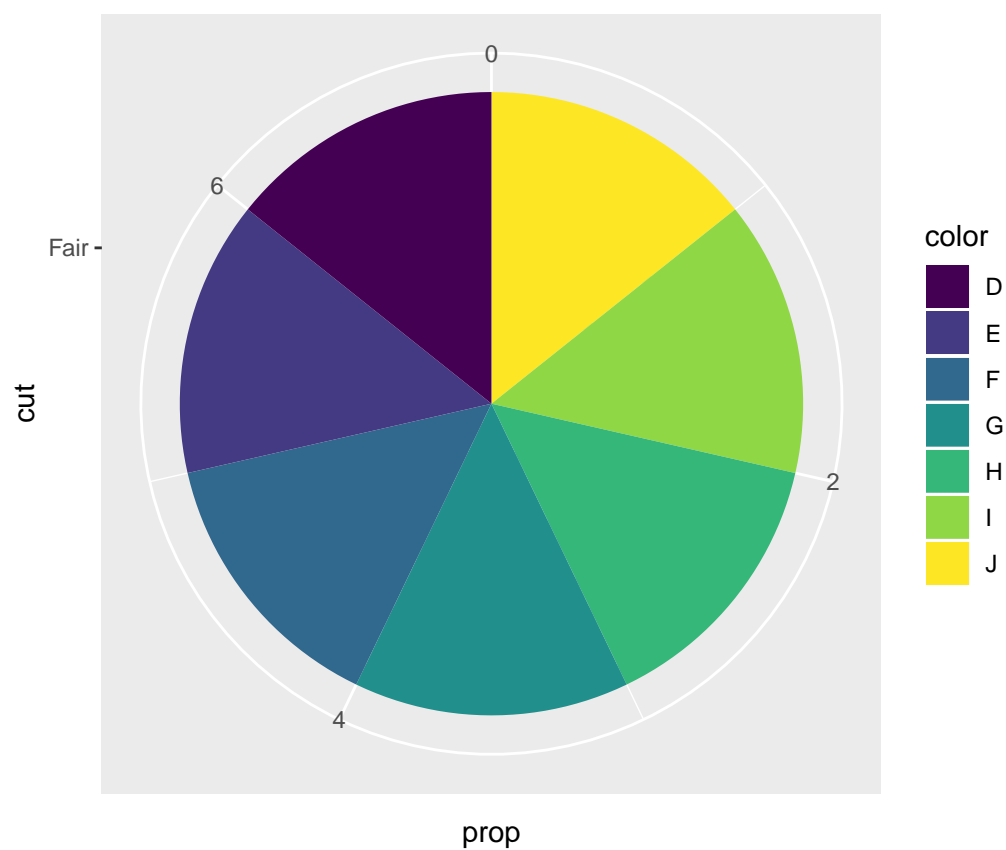# r4ds Ex 3.9.1

MW

2019/05/15

3.9.1

1

```
diamonds %>% filter(cut=="Fair") %>%
    ggplot(aes(x=cut, y=..prop..,fill=color)) +
        geom_bar() +
        coord_polar(theta = "y")
```
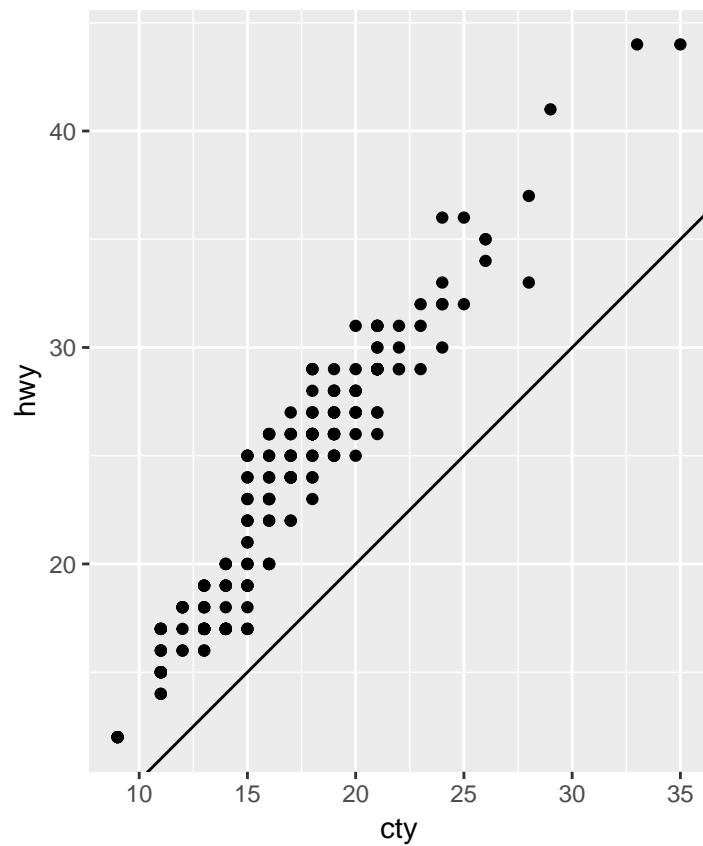

2

`labs()` controls plot titles, axis titles, and captions.

3

`coord_map` projects the 3D Earth onto a 2D. `coord_quickmap` projects approximations of `coord_map`, therefore more quickly than `coord_map`.

4

```
ggplot(data = mpg, mapping = aes(x = cty, y = hwy)) +
  geom_point() +
  geom_abline() +
  coord_fixed()
```

It tells us that the correlation between `cty` and `hwy` is almost `y=x + C`.
`geom_abline` makes `x=y` line, which means x:y = 1:1. Furthurmore, `coord_fixed` makes easier to see the 1:1 line by setting the aspect ratio correctly for maps.