

# Adding Plot Components

```
g1 <- ggplot(mpg, aes(displ, hwy))  
g1 + geom_point()
```

```
g1 <- ggplot(mpg, aes(displ, hwy))  
g1 <- g1 + geom_point()  
g1  
g1 + geom_smooth()
```

# Functions in `aes()`



```
ggplot(mpg, aes(displ, log(hwy), color=class)) +  
  geom_point()
```

```
[1] 3.367296 3.367296 3.433987 3.401197 3.258097 3.258097 3.295837 3.258097 3.218876 3.332205 3.295837  
[12] 3.218876 3.218876 3.218876 3.218876 3.178054 3.218876 3.135494 2.995732 2.708050 2.995732 2.833213  
[23] 2.833213 3.258097 3.135494 3.258097 3.218876 3.178054 2.944439 2.639057 2.708050 2.833213 3.295837  
[34] 3.401197 3.258097 3.367296 3.258097 3.178054 3.178054 3.091042 3.091042 3.178054 3.178054 2.833213
```

...

```
ggplot(mpg, aes(displ, mean(hwy), color=class)) +  
  geom_point()
```

```
[1] 23.44017
```