

# Class 6 Practice

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```
library(ggplot2)
library(nycflights13)
library(tidyverse)
```

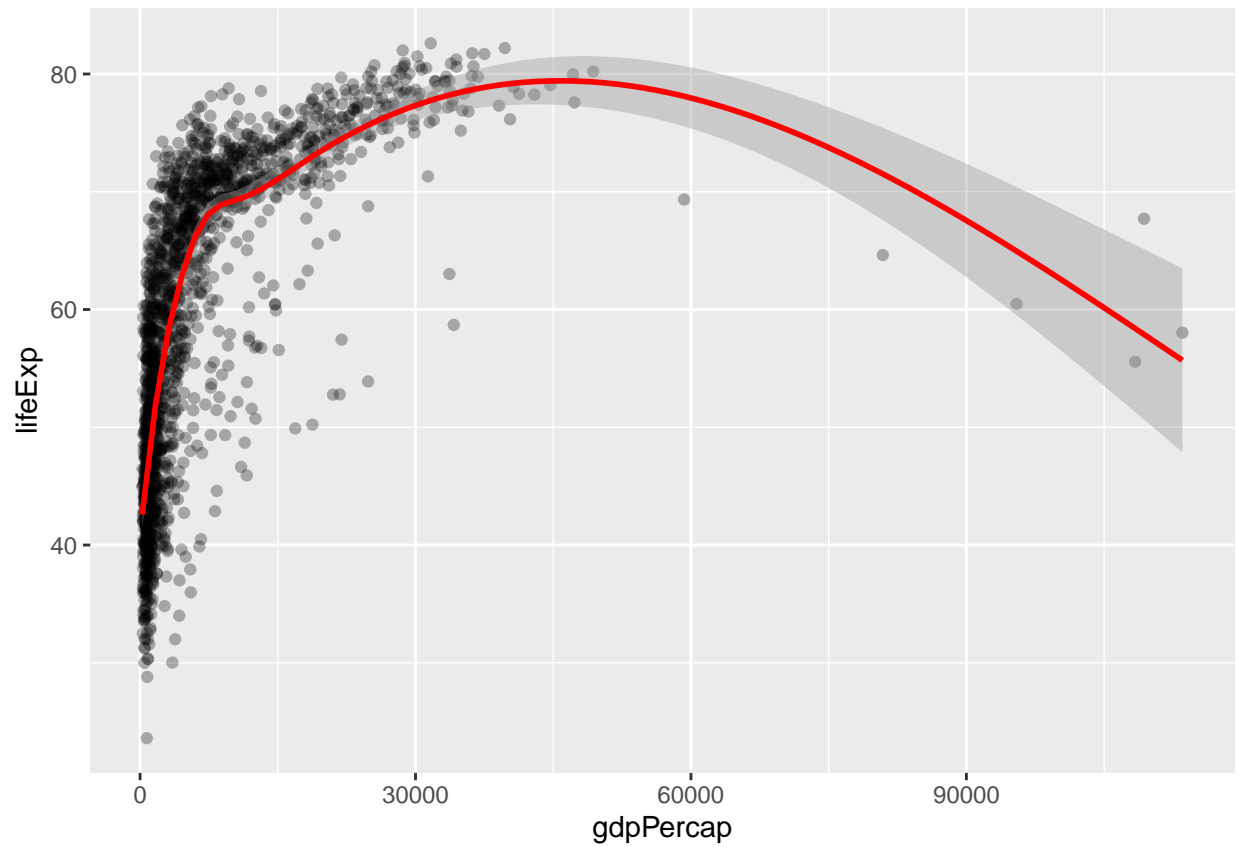
```
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr      1.1.4      v readr      2.1.5
## v forcats    1.0.0      v stringr   1.5.1
## v lubridate  1.9.4      v tibble    3.2.1
## v purrr      1.0.2      v tidyr     1.3.1
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```
library(dplyr)
library(socviz)
library(gapminder)
```

```
data(gapminder)
```

```
ggplot(gapminder, mapping=aes(gdpPercap, lifeExp)) + geom_point(alpha = 0.3)+geom_smooth(color = "red")
```

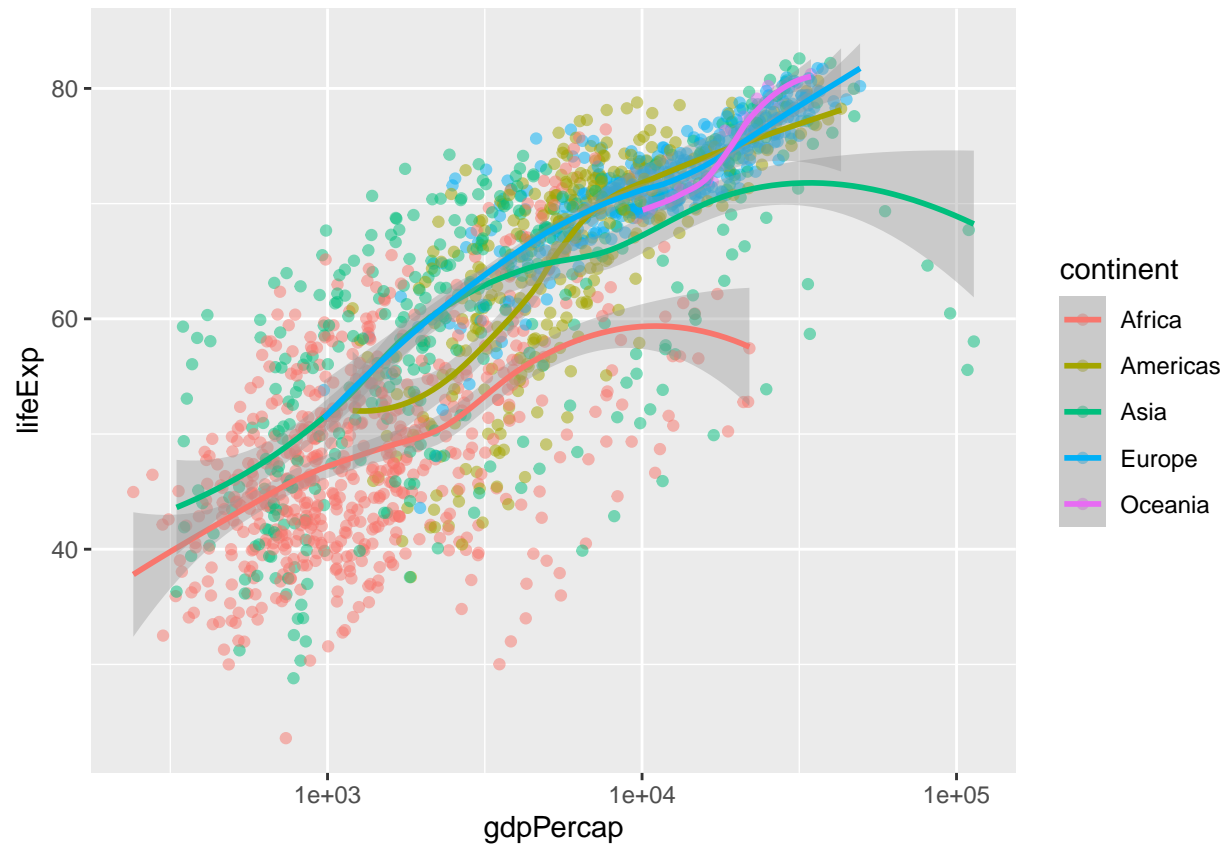
```
## 'geom_smooth()' using method = 'gam' and formula = 'y ~ s(x, bs = "cs")'
```



```
library(ggplot2)

ggplot(gapminder, mapping = aes(gdpPercap, lifeExp)) + geom_point(mapping=aes(color=continent), alpha =

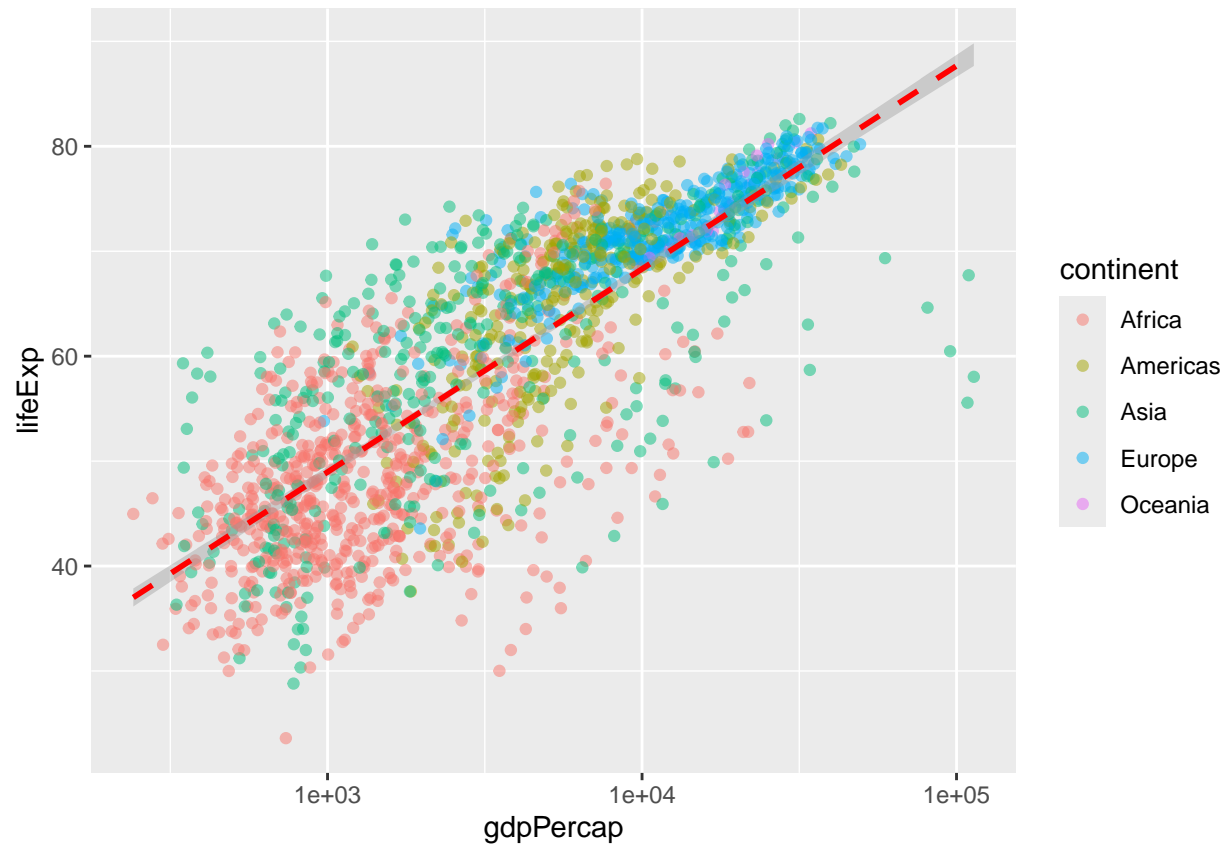
## 'geom_smooth()' using method = 'loess' and formula = 'y ~ x'
```



```
library(ggplot2)

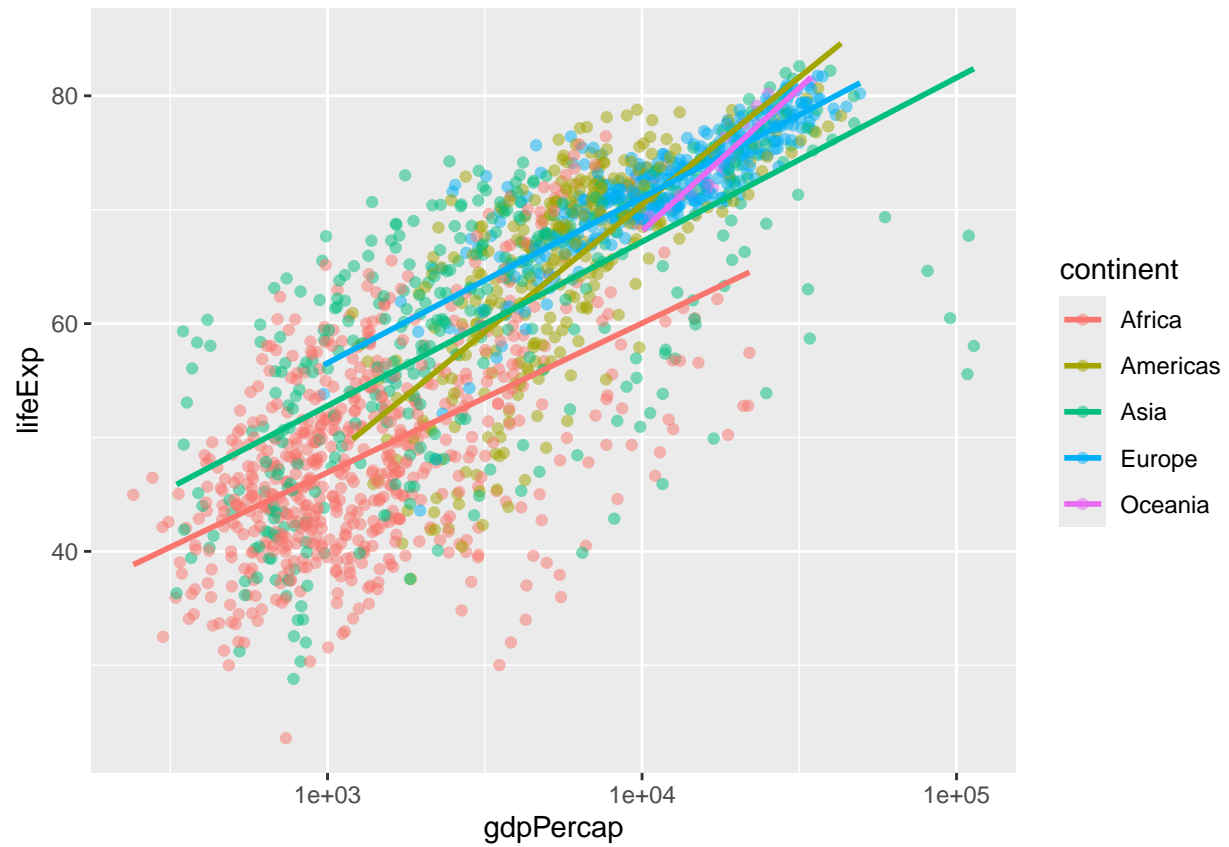
ggplot(gapminder, mapping=aes(gdpPercap, lifeExp))+geom_point(alpha=0.5, mapping = aes(color=continent))

## 'geom_smooth()' using formula = 'y ~ x'
```



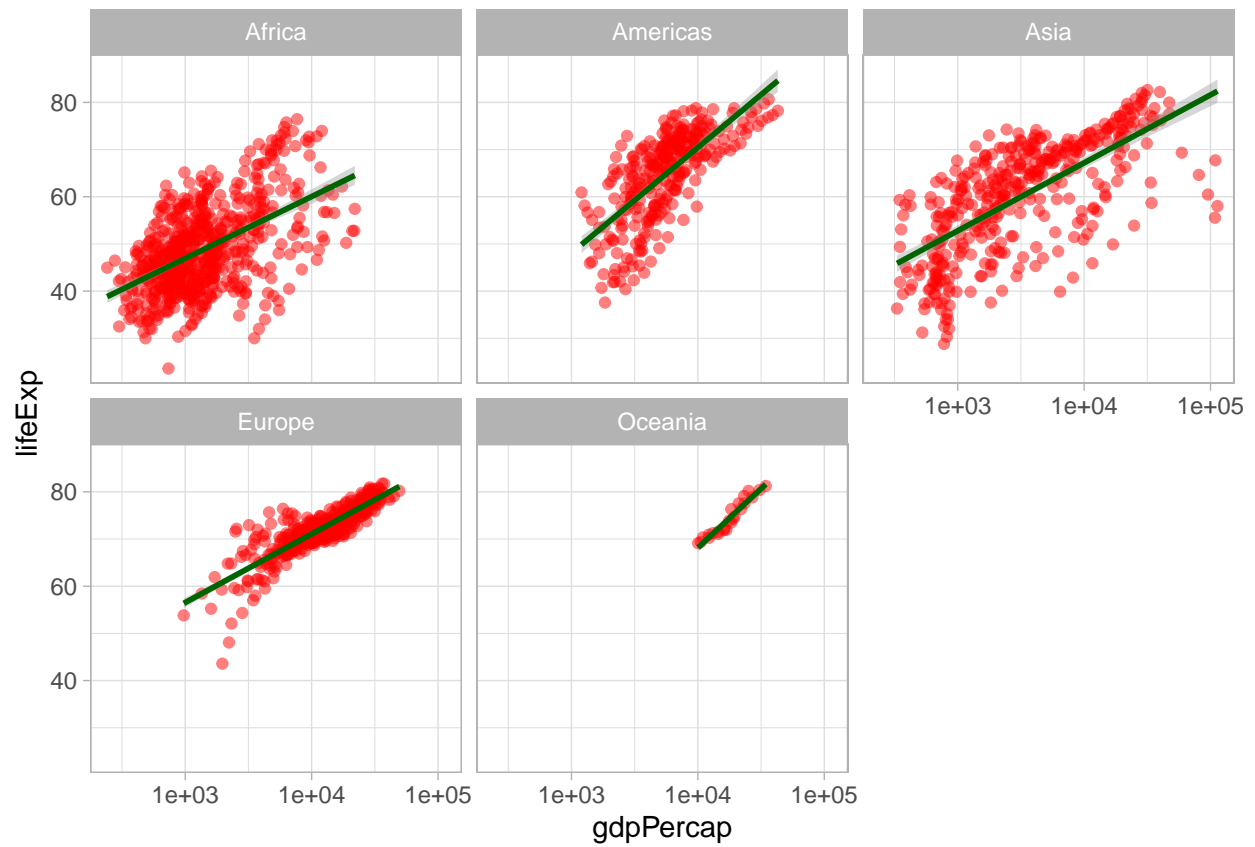
```
ggplot(gapminder, mapping = aes(gdpPercap, lifeExp)) + geom_point(alpha=0.5,mapping=aes(color=continent))
```

```
## 'geom_smooth()' using formula = 'y ~ x'
```



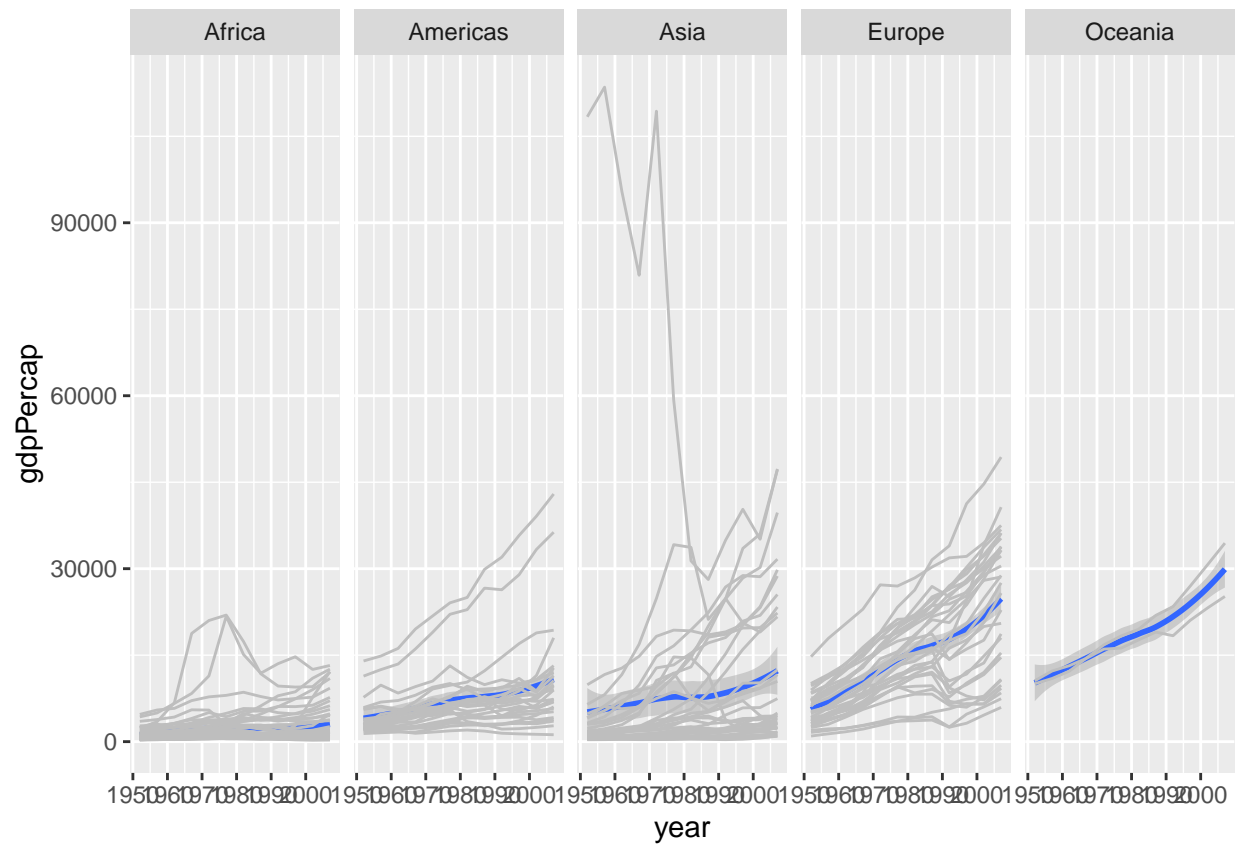
```
ggplot(gapminder, mapping=aes(gdpPerCap, lifeExp))+geom_point(color="red", alpha = 0.5)+geom_smooth(color="red")
```

```
## 'geom_smooth()' using formula = 'y ~ x'
```

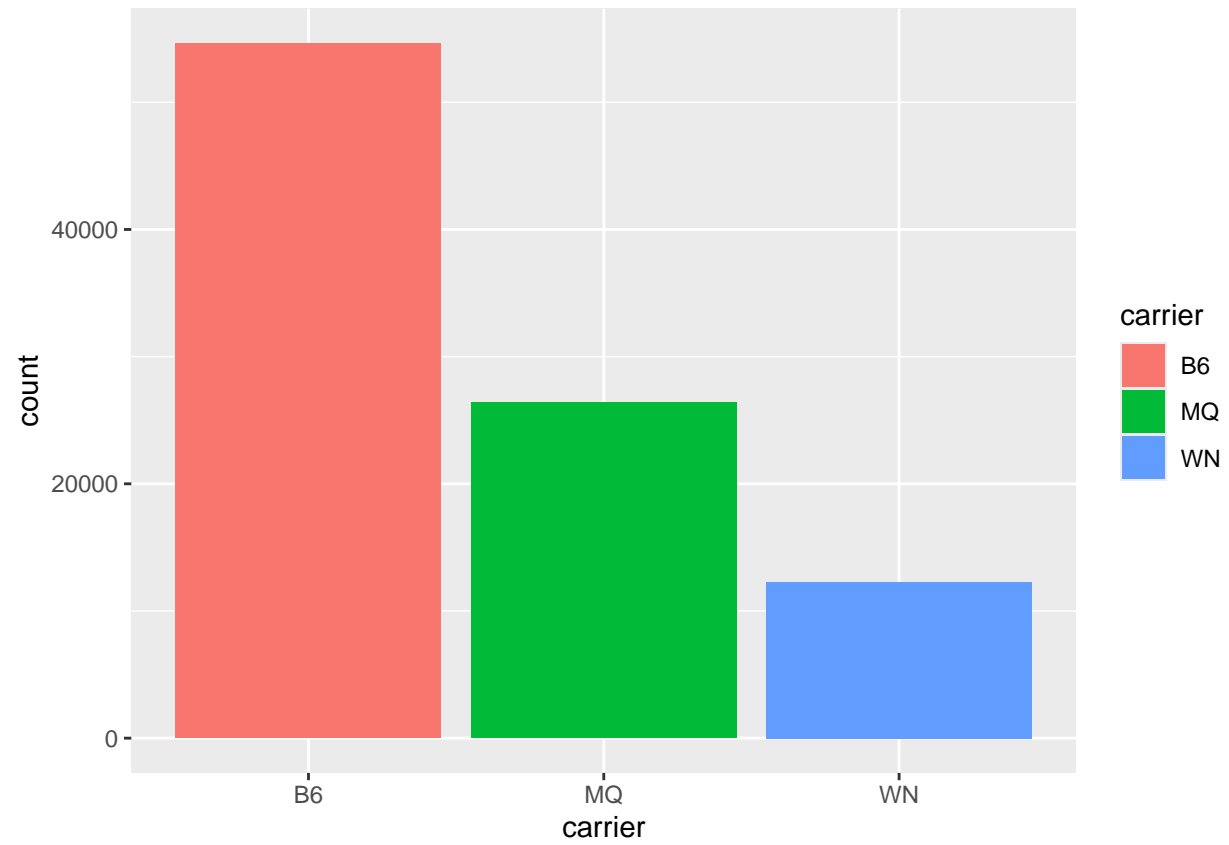


```
ggplot(gapminder, mapping=aes(year,gdpPercap))+geom_smooth(aes(group=continent))+geom_line(mapping=aes(
```

```
## 'geom_smooth()' using method = 'loess' and formula = 'y ~ x'
```

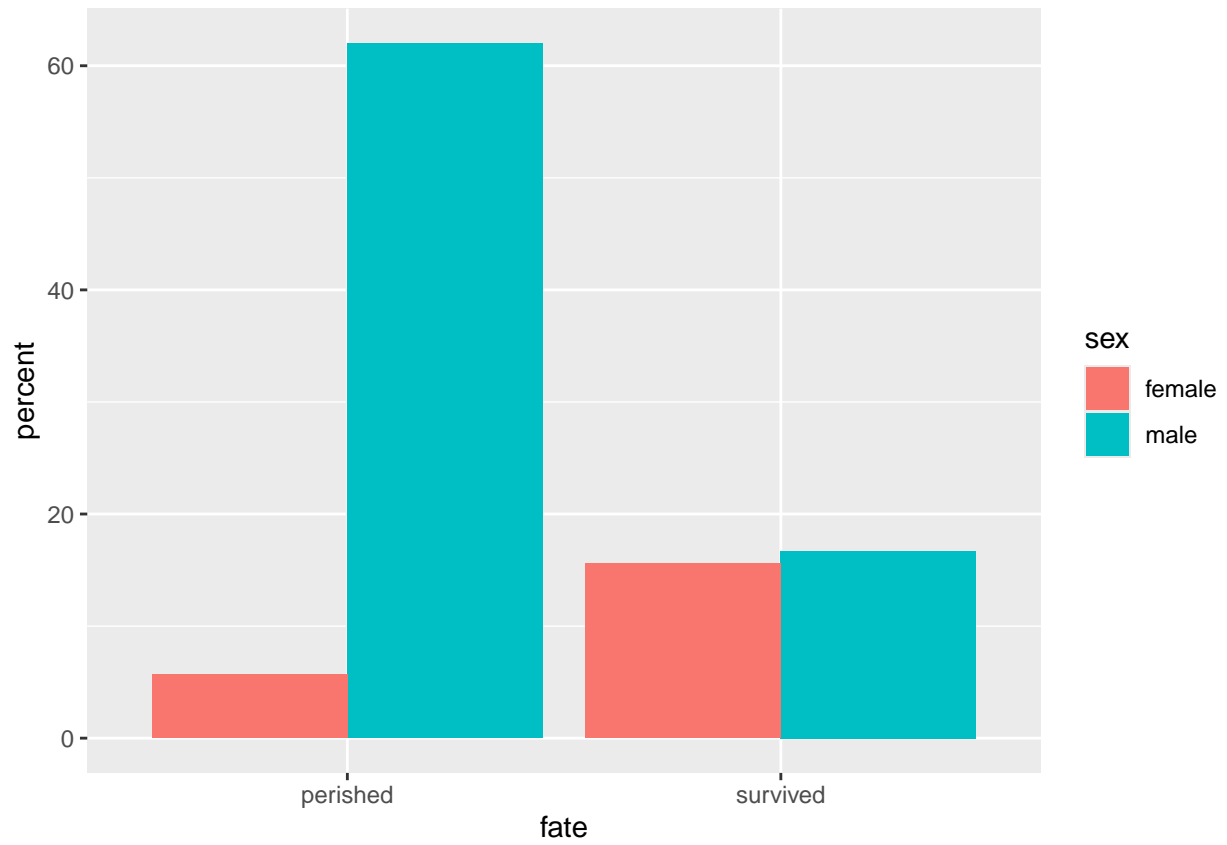


```
filter(flights, carrier == "B6" | carrier == "MQ" | carrier == "WN") %>% ggplot(flights, mapping=aes(carrier))
```



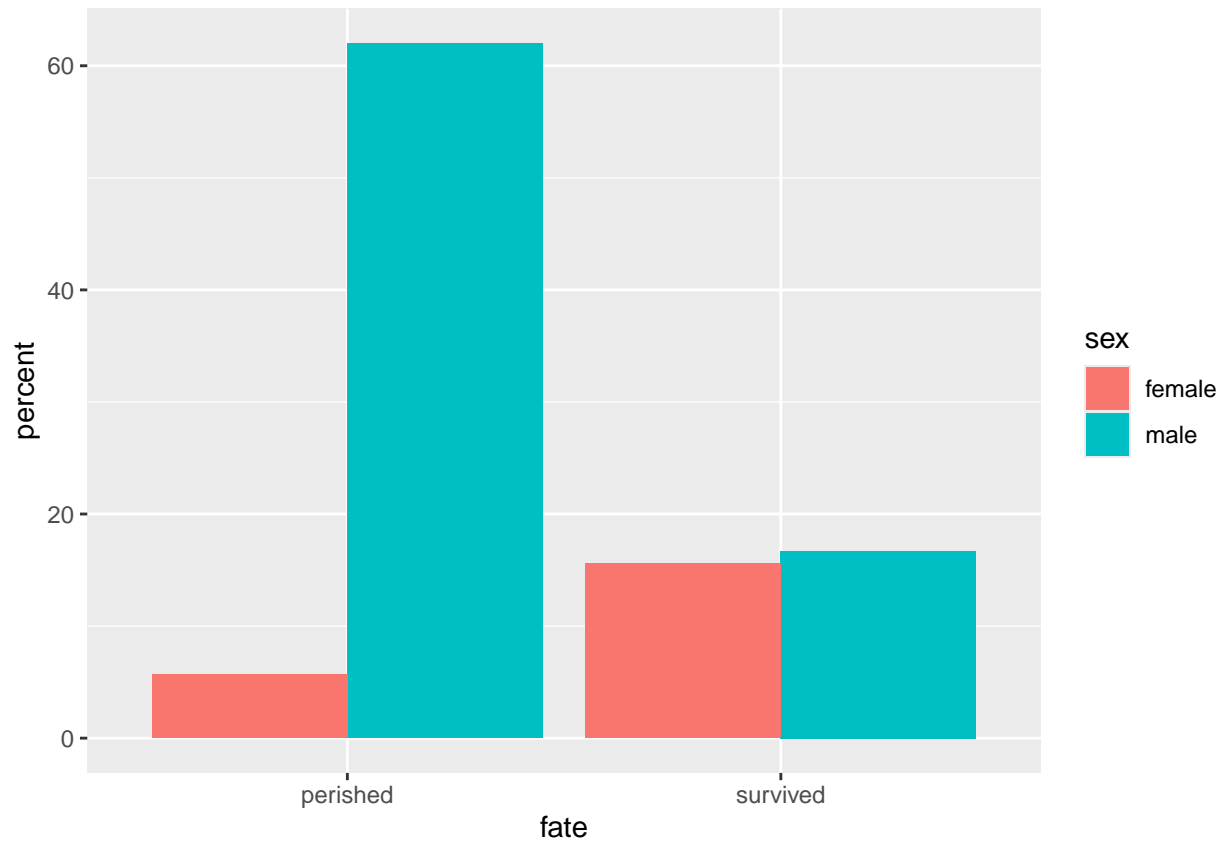
```
ggplot(titanic, mapping=aes(x=fate, y=percent, fill=sex))+geom_bar(stat="identity", position = "dodge")
```



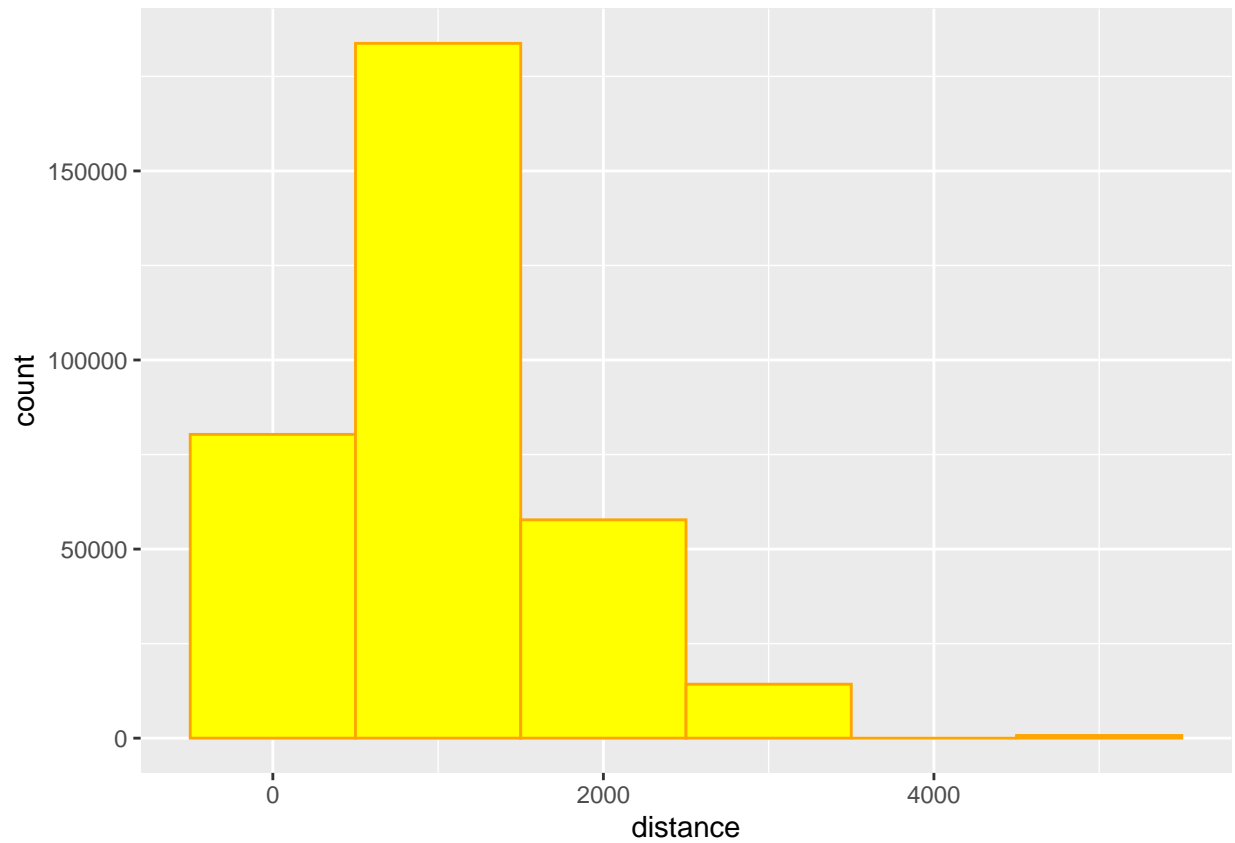


*#OR*

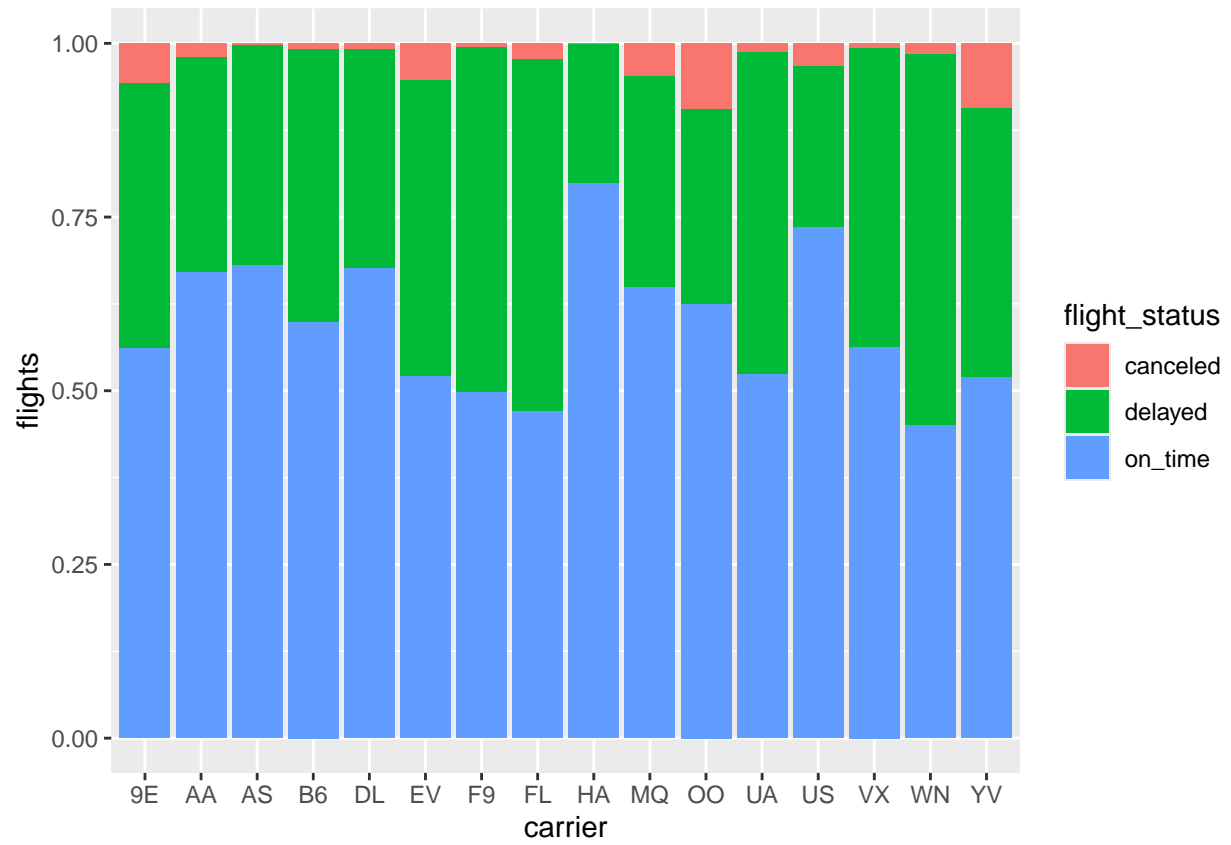
```
ggplot(titanic, aes(fate, percent, fill=sex)) + geom_col(position = "dodge")
```



```
ggplot(flights, mapping=aes(distance))+geom_histogram(binwidth=1000, color="orange", fill="yellow")
```



```
f1 <- flights %>% group_by(carrier) %>% summarize(total=n(), delayed=sum(dep_delay>0, na.rm=TRUE), canceled=sum(dep_delay>0, na.rm=TRUE))  
pivot_longer(f1, c("delayed", "on_time", "canceled"), names_to = "flight_status", values_to = "flights")
```



“