

Activity for Lab3

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

```
## -- Attaching packages ----- tidyverse
## v tibble 1.4.2      v purrr 0.2.5
## v tidyr 0.8.1      v dplyr 0.7.6
## v readr 1.1.1      v stringr 1.3.1
## v tibble 1.4.2      v forcats 0.3.0
```

```
## -- Conflicts ----- tidyverse
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
```

```
library(gapminder)
```

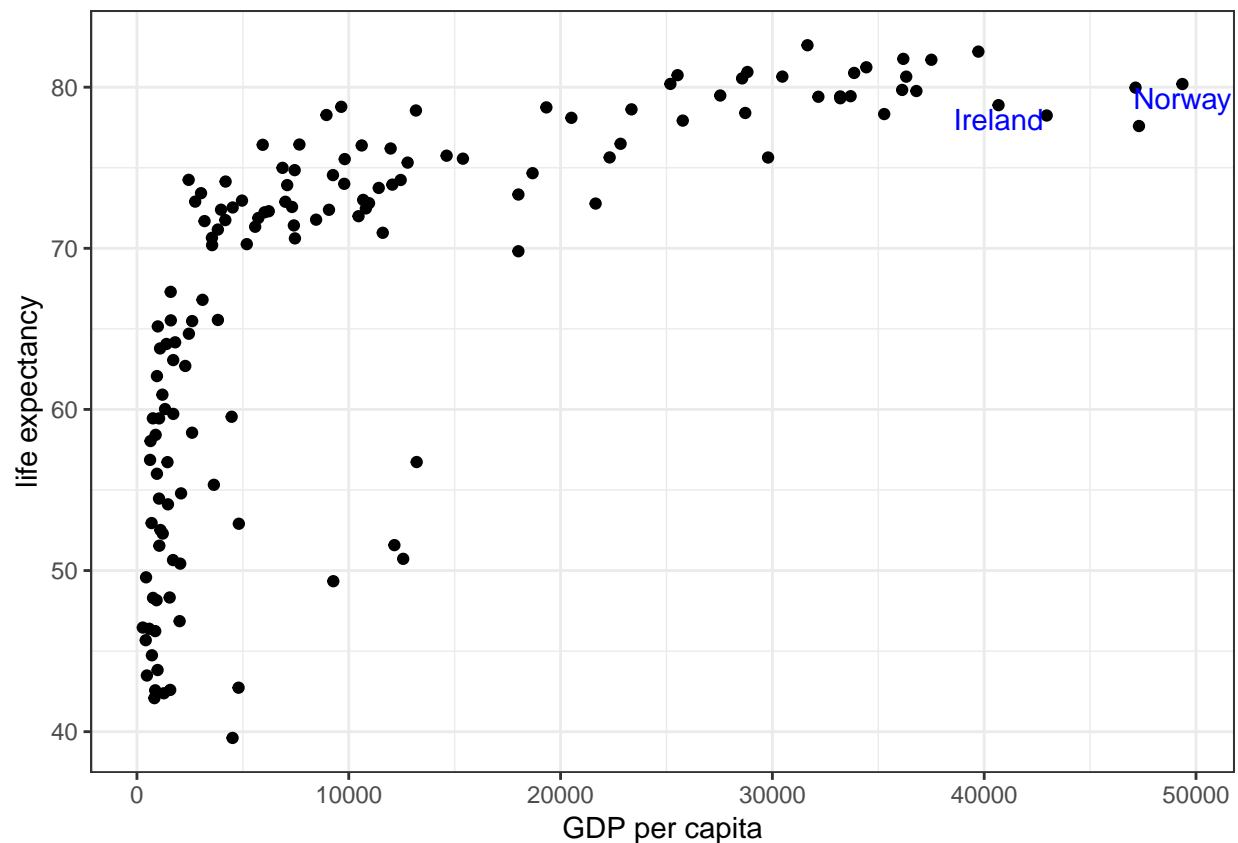
```
a<-gapminder%>%
filter(gdpPercap> 40000,year==2007,continent=="Europe")%>%
  select(country,gdpPercap,lifeExp)
```

```
head(gapminder)
```

```
## # A tibble: 6 x 6
##   country    continent  year lifeExp      pop gdpPercap
##   <fct>      <fct>    <int> <dbl>    <int>    <dbl>
## 1 Afghanistan Asia      1952  28.8  8425333    779.
## 2 Afghanistan Asia      1957  30.3  9240934    821.
## 3 Afghanistan Asia      1962  32.0 10267083    853.
## 4 Afghanistan Asia      1967  34.0 11537966    836.
## 5 Afghanistan Asia      1972  36.1 13079460    740.
## 6 Afghanistan Asia      1977  38.4 14880372    786.
```

```
tidy <- gapminder%>%
  filter(year==2007)
```

```
ggplot(tidy,aes(x=gdpPercap,y=lifeExp))+
  geom_point()+
  theme_bw()+
  labs(x="GDP per capita",y="life expectancy")+
  geom_text(data = a, aes(x=gdpPercap,y=lifeExp,label=country),colour = 'blue',
            nudge_y = -.9)
```



Assignment for Lab3

```
b<-tidy%>%
  arrange(desc(gdpPercap))%>%
  slice(1:6)
b
```

```
## # A tibble: 6 x 6
##   country      continent  year lifeExp      pop gdpPercap
##   <fct>        <fct>    <int>  <dbl>    <int>    <dbl>
## 1 Norway      Europe    2007   80.2   4627926  49357.
## 2 Kuwait      Asia      2007   77.6   2505559  47307.
## 3 Singapore   Asia      2007   80.0   4553009  47143.
## 4 United States Americas  2007   78.2  301139947 42952.
## 5 Ireland     Europe    2007   78.9   4109086  40676.
## 6 Hong Kong, China Asia      2007   82.2   6980412  39725.
```

```
ggplot(tidy,aes(x=gdpPercap,y=lifeExp))+
  geom_point(shape=1,stroke=1.1)+
  theme_bw()+
  labs(x="GDP per capita",y="life expectancy")+
  annotate("rect",xmin=39000,xmax=51000,
          ymin=75,ymax=85,fill="red",alpha=.2)+
  annotate("text",x=45000,y=72,label="Countries with\nhighest GDP")
```

