Alcohol consumption around the world

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Los datos

La base datos que se analiza aquí fue tomada de https://github.com/rfordatascience/tidytuesday/tree/master/data.

```
require(readr)
dt <- read_csv("week13_alcohol_global.txt")
dim(dt)
```

```
## [1] 193   5
```

```
dt
```

```
## # A tibble: 193 x 5
##    country   beer_servings spirit_servings wine_servings total_litres_of_~
##    <chr>             <int>           <int>         <int>              <dbl>
##  1 Afghanis~             0               0             0              0
##  2 Albania              89             132            54              4.90
##  3 Algeria              25               0            14              0.700
##  4 Andorra             245             138           312             12.4
##  5 Angola              217              57            45              5.90
##  6 Antigua ~           102             128            45              4.90
##  7 Argentina           193              25           221              8.30
##  8 Armenia              21             179            11              3.80
##  9 Australia           261              72           212             10.4
## 10 Austria             279              75           191              9.70
## # ... with 183 more rows
```

```
colnames(dt) <- c('country', 'beer', 'spirit', 'wine', 'total')
dt
```

```
## # A tibble: 193 x 5
##    country            beer spirit  wine  total
##    <chr>             <int>  <int> <int>  <dbl>
##  1 Afghanistan           0      0     0  0
##  2 Albania              89    132    54  4.90
##  3 Algeria              25      0    14  0.700
##  4 Andorra             245    138   312 12.4
##  5 Angola              217     57    45  5.90
##  6 Antigua & Barbuda   102    128    45  4.90
##  7 Argentina           193     25   221  8.30
##  8 Armenia              21    179    11  3.80
##  9 Australia           261     72   212 10.4
## 10 Austria             279     75   191  9.70
## # ... with 183 more rows
```

Figure 1: Figura tomada de http://phobia.wikia.com/wiki/Methyphobia

Who drinks the most beer, spirits and wine?

```
require(dplyr)
dt %>% arrange(desc(beer))
```

```
## # A tibble: 193 x 5
##    country         beer spirit  wine total
##    <chr>          <int>  <int> <int> <dbl>
##  1 Namibia          376      3     1  6.80
##  2 Czech Republic   361    170   134 11.8
##  3 Gabon            347     98    59  8.90
##  4 Germany          346    117   175 11.3
##  5 Lithuania        343    244    56 12.9
##  6 Poland           343    215    56 10.9
##  7 Venezuela        333    100     3  7.70
##  8 Ireland          313    118   165 11.4
##  9 Palau            306     63    23  6.90
## 10 Romania          297    122   167 10.4
## # ... with 183 more rows
```

```
dt %>% arrange(desc(spirit))
```

```
## # A tibble: 193 x 5
##    country             beer spirit  wine total
##    <chr>              <int>  <int> <int> <dbl>
##  1 Grenada              199    438    28 11.9
##  2 Belarus              142    373    42 14.4
##  3 Haiti                  1    326     1  5.90
##  4 Russian Federation   247    326    73 11.5
##  5 St. Lucia            171    315    71 10.1
```

```
##  6 Guyana                93    302     1  7.10
##  7 Slovakia             196    293   116 11.4
##  8 Dominica              52    286    26  6.60
##  9 Thailand              99    258     1  6.40
## 10 Cook Islands           0    254    74  5.90
## # ... with 183 more rows
```

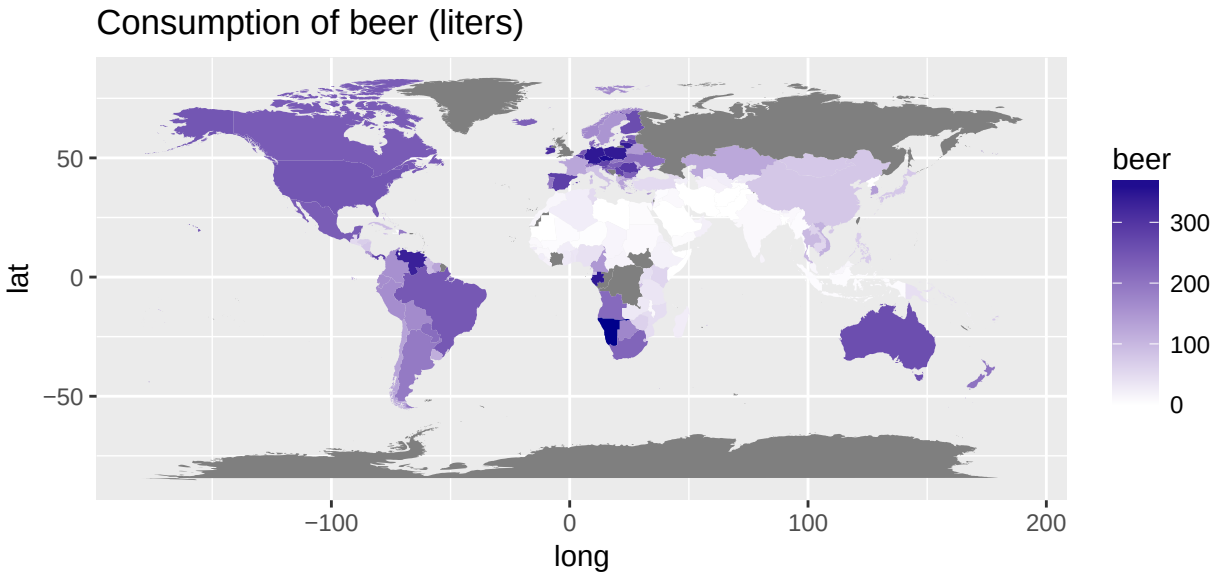
```
dt %>%  arrange(desc(wine))
```

```
## # A tibble: 193 x 5
##    country            beer spirit  wine total
##    <chr>             <int>  <int> <int> <dbl>
##  1 France              127    151   370 11.8
##  2 Portugal            194     67   339 11.0
##  3 Andorra             245    138   312 12.4
##  4 Switzerland         185    100   280 10.2
##  5 Denmark             224     81   278 10.4
##  6 Slovenia            270     51   276 10.6
##  7 Luxembourg          236    133   271 11.4
##  8 Croatia             230     87   254 10.2
##  9 Italy                85     42   237  6.50
## 10 Equatorial Guinea    92      0   233  5.80
## # ... with 183 more rows
```

```
library(maps)
library(ggplot2)
thismap <- map_data("world")
thismap$country <- thismap$region
datos <- full_join(thismap, dt, by='country')
```

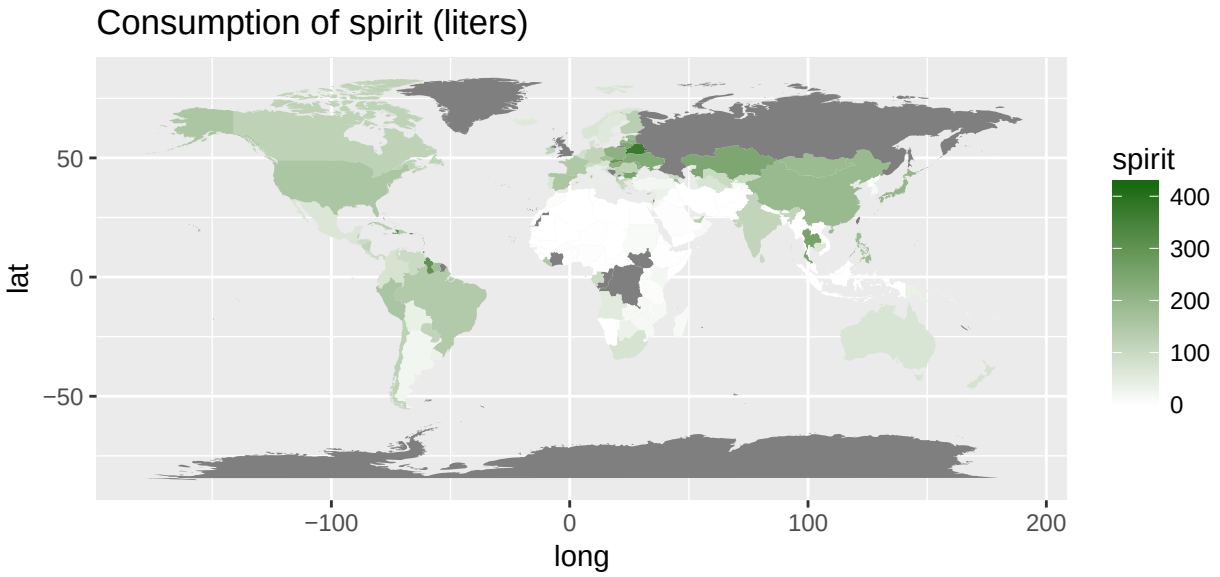
```
map1 <- ggplot(datos, aes(long, lat, group=group, fill=beer)) +
               geom_polygon() +
               ggtitle("Consumption of beer (liters)")

map1 + scale_fill_gradient(low='white', high='darkblue') +
coord_quickmap()
```



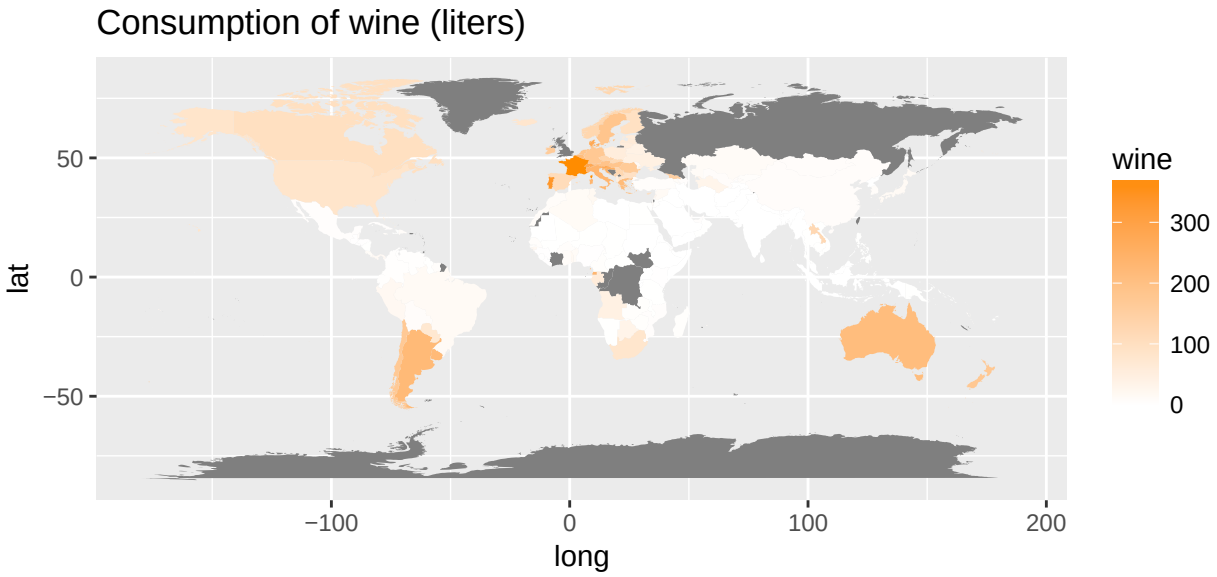

```
map2 <- ggplot(datos, aes(long, lat, group=group, fill=spirit)) +
               geom_polygon() +
               ggtitle("Consumption of spirit (liters)")

map2 + scale_fill_gradient(low='white', high='darkgreen') +
coord_quickmap()
```




```
map3 <- ggplot(datos, aes(long, lat, group=group, fill=wine)) +
               geom_polygon() +
               ggtitle("Consumption of wine (liters)")

map3 + scale_fill_gradient(low='white', high='darkorange') +
coord_quickmap()
```


Consumption of wine (liters)
lat
50
0
−50
−100
0
100
200
long
wine
300
200
100
0