Reading Datafiles into R

So far we have learned how to summarise (both numerically and graphically) different types of variables. We also learned how to produce numerical and graphical summaries of a variable across different groups of another categorical variable. But all the variables we used so far are from datasets that are already available in .

A key next skill to learn is to import datasets into . There are a lot of common mistakes when downloading files using browsers and then reading them into R. So we have produced a set of slides explaining these and how to avoid or overcome them, entitled “Working with R or R-Markdown and Datafiles”. You may wish to read these slides first. They are posted with this lab material and in the Discussion Board.

## Reading datasets into R

The datasets we want to import into might be in different file format, e.g. “.csv”, “.xlsx”, “.sav”, “.dat”, “.xml”, etc. Among all these file format “.csv” is the simplest and most portable (from one machine to the other) file format. When working with different people you cannot assume they a particular piece of software (e.g. Excel), and you need to be aware that many datafile formats do not have well defined standards so can be unreliable when sharing across different systems.

It is possible to import dataset in any of the file formats listed above and many others besides. But for the purpose of demonstration, we will show you how to import a dataset in “.csv” format using the function read.csv().

**Firstly, you need to ensure the “.csv” file and this markdown file are stored in the same folder. Next ensure R is using that folder as the working directory (go to Session > Set Working Directory > To Source File Location if you need to set it).**

# Gapminder Dataset

We are going to use the gapminder dataset which is available in the “gapminder.csv” file. The dataset contains life expectancy at birth (under lifeExp variable name), total population (pop), and GDP per capita (gdpPercap) of 142 different countries from five different continents over 1952 to 2007. You can find more information and more variables from [here](https://www.gapminder.org/data/). Hans Rosling, the co-founder and chairman of the Gapminder Foundation, gave a mesmerizing Ted talk on this data which you can watch [here](https://www.ted.com/talks/hans_rosling_the_best_stats_you_ve_ever_seen?language=en).

The following code chunk reads the “gapminder.csv” into an object gapminder. If you get an error message, please read the slides on “Working with R or R-Markdown and Datafiles” and if you cannot resolve the problem discuss it with the tutor.

library(tidyverse)  
  
gapminder = read.csv("gapminder.csv")

The first thing to do when reading a dataset into statistical software is to check it has been read in correctly. You can get an overview of the dataset using the glimpse() function.

gapminder %>% glimpse()

## Rows: 1,704  
## Columns: 6  
## $ country <chr> "Afghanistan", "Afghanistan", "Afghanistan", "Afghanistan", …  
## $ continent <chr> "Asia", "Asia", "Asia", "Asia", "Asia", "Asia", "Asia", "Asi…  
## $ year <int> 1952, 1957, 1962, 1967, 1972, 1977, 1982, 1987, 1992, 1997, …  
## $ lifeExp <dbl> 28.801, 30.332, 31.997, 34.020, 36.088, 38.438, 39.854, 40.8…  
## $ pop <int> 8425333, 9240934, 10267083, 11537966, 13079460, 14880372, 12…  
## $ gdpPercap <dbl> 779.4453, 820.8530, 853.1007, 836.1971, 739.9811, 786.1134, …

To understand the dataset contents, please complete the following task

**Task 1:**

* What is the experimental unit here?
* What is the dimension of the dataset (number of rows and columns)?

print("The experimental unit is the countries around the globe")

## [1] "The experimental unit is the countries around the globe"

print(paste0("The dimension of dataset is ", nrow(gapminder), " rows and ", ncol(gapminder), " columns"))

## [1] "The dimension of dataset is 1704 rows and 6 columns"

## Filtering rows with the filter() function

You can see that there are 1,704 (=142\*12) rows in the dataset along with 6 columns. The unit of observation here is country, since all the information available here belong to countries. In the mtcars dataset the experiments units were a particular model of car and for the titanic\_train dataset it was a passenger. However, the gapminder dataset is somewhat more complex in the sense that for the mtcars dataset each car occupied only one row and for the titanic\_train dataset each passenger occupied only one row of the dataset but for the gapminder dataset each country occupies 12 rows of the dataset. For a particular country, these 12 rows contain information related to different year of data collection.

Now, if we want to calculate the average population of European countries in 2007, we simply cannot use summaries(mean(pop)) because it will give the average population of all the countries across all the years. So we have to keep the rows corresponding to European countries for 2007 by filtering out the rows we do not want. The filter() function from the tidyverse package can help us to keep the rows corresponding to European countries for 2007.

Run the code below. "Europe" is a value for the continent variable and 2007 is a value for the year variable. To keep the rows corresponding to the "Europe" value of the continent variable we can use filter(continent == "Europe"). To keep the rows corresponding to the 2007 value of the year variable we can use filter(year == 2007). But to keep the rows belonging to both of them we need to use filter(continent == "Europe" & year == 2007). Here we used a logical operator &. If you are not sure how it works please revisit the first lab.

library(tidyverse)  
  
gapminder %>% filter(continent == "Europe" & year == 2007)

## country continent year lifeExp pop gdpPercap  
## 1 Albania Europe 2007 76.423 3600523 5937.030  
## 2 Austria Europe 2007 79.829 8199783 36126.493  
## 3 Belgium Europe 2007 79.441 10392226 33692.605  
## 4 Bosnia and Herzegovina Europe 2007 74.852 4552198 7446.299  
## 5 Bulgaria Europe 2007 73.005 7322858 10680.793  
## 6 Croatia Europe 2007 75.748 4493312 14619.223  
## 7 Czech Republic Europe 2007 76.486 10228744 22833.309  
## 8 Denmark Europe 2007 78.332 5468120 35278.419  
## 9 Finland Europe 2007 79.313 5238460 33207.084  
## 10 France Europe 2007 80.657 61083916 30470.017  
## 11 Germany Europe 2007 79.406 82400996 32170.374  
## 12 Greece Europe 2007 79.483 10706290 27538.412  
## 13 Hungary Europe 2007 73.338 9956108 18008.944  
## 14 Iceland Europe 2007 81.757 301931 36180.789  
## 15 Ireland Europe 2007 78.885 4109086 40675.996  
## 16 Italy Europe 2007 80.546 58147733 28569.720  
## 17 Montenegro Europe 2007 74.543 684736 9253.896  
## 18 Netherlands Europe 2007 79.762 16570613 36797.933  
## 19 Norway Europe 2007 80.196 4627926 49357.190  
## 20 Poland Europe 2007 75.563 38518241 15389.925  
## 21 Portugal Europe 2007 78.098 10642836 20509.648  
## 22 Romania Europe 2007 72.476 22276056 10808.476  
## 23 Serbia Europe 2007 74.002 10150265 9786.535  
## 24 Slovak Republic Europe 2007 74.663 5447502 18678.314  
## 25 Slovenia Europe 2007 77.926 2009245 25768.258  
## 26 Spain Europe 2007 80.941 40448191 28821.064  
## 27 Sweden Europe 2007 80.884 9031088 33859.748  
## 28 Switzerland Europe 2007 81.701 7554661 37506.419  
## 29 Turkey Europe 2007 71.777 71158647 8458.276  
## 30 United Kingdom Europe 2007 79.425 60776238 33203.261

Instead of using the logical operator & we can separate each condition in the filter() function with a comma. Take a look at the help for the filter() function typing help(filter) in the R Console, scroll down to “Arguments” and the entry for ... which explains that it just combines them with an & operator.

gapminder %>% filter(continent == "Europe", year == 2007)

## country continent year lifeExp pop gdpPercap  
## 1 Albania Europe 2007 76.423 3600523 5937.030  
## 2 Austria Europe 2007 79.829 8199783 36126.493  
## 3 Belgium Europe 2007 79.441 10392226 33692.605  
## 4 Bosnia and Herzegovina Europe 2007 74.852 4552198 7446.299  
## 5 Bulgaria Europe 2007 73.005 7322858 10680.793  
## 6 Croatia Europe 2007 75.748 4493312 14619.223  
## 7 Czech Republic Europe 2007 76.486 10228744 22833.309  
## 8 Denmark Europe 2007 78.332 5468120 35278.419  
## 9 Finland Europe 2007 79.313 5238460 33207.084  
## 10 France Europe 2007 80.657 61083916 30470.017  
## 11 Germany Europe 2007 79.406 82400996 32170.374  
## 12 Greece Europe 2007 79.483 10706290 27538.412  
## 13 Hungary Europe 2007 73.338 9956108 18008.944  
## 14 Iceland Europe 2007 81.757 301931 36180.789  
## 15 Ireland Europe 2007 78.885 4109086 40675.996  
## 16 Italy Europe 2007 80.546 58147733 28569.720  
## 17 Montenegro Europe 2007 74.543 684736 9253.896  
## 18 Netherlands Europe 2007 79.762 16570613 36797.933  
## 19 Norway Europe 2007 80.196 4627926 49357.190  
## 20 Poland Europe 2007 75.563 38518241 15389.925  
## 21 Portugal Europe 2007 78.098 10642836 20509.648  
## 22 Romania Europe 2007 72.476 22276056 10808.476  
## 23 Serbia Europe 2007 74.002 10150265 9786.535  
## 24 Slovak Republic Europe 2007 74.663 5447502 18678.314  
## 25 Slovenia Europe 2007 77.926 2009245 25768.258  
## 26 Spain Europe 2007 80.941 40448191 28821.064  
## 27 Sweden Europe 2007 80.884 9031088 33859.748  
## 28 Switzerland Europe 2007 81.701 7554661 37506.419  
## 29 Turkey Europe 2007 71.777 71158647 8458.276  
## 30 United Kingdom Europe 2007 79.425 60776238 33203.261

**Task 2:** In the following code chunk, use the filter() function to keep the rows corresponding to the countries in the Americas only for the year 1952.

gapminder %>% filter(continent == "Americas", year == 1952)

## country continent year lifeExp pop gdpPercap  
## 1 Argentina Americas 1952 62.485 17876956 5911.315  
## 2 Bolivia Americas 1952 40.414 2883315 2677.326  
## 3 Brazil Americas 1952 50.917 56602560 2108.944  
## 4 Canada Americas 1952 68.750 14785584 11367.161  
## 5 Chile Americas 1952 54.745 6377619 3939.979  
## 6 Colombia Americas 1952 50.643 12350771 2144.115  
## 7 Costa Rica Americas 1952 57.206 926317 2627.009  
## 8 Cuba Americas 1952 59.421 6007797 5586.539  
## 9 Dominican Republic Americas 1952 45.928 2491346 1397.717  
## 10 Ecuador Americas 1952 48.357 3548753 3522.111  
## 11 El Salvador Americas 1952 45.262 2042865 3048.303  
## 12 Guatemala Americas 1952 42.023 3146381 2428.238  
## 13 Haiti Americas 1952 37.579 3201488 1840.367  
## 14 Honduras Americas 1952 41.912 1517453 2194.926  
## 15 Jamaica Americas 1952 58.530 1426095 2898.531  
## 16 Mexico Americas 1952 50.789 30144317 3478.126  
## 17 Nicaragua Americas 1952 42.314 1165790 3112.364  
## 18 Panama Americas 1952 55.191 940080 2480.380  
## 19 Paraguay Americas 1952 62.649 1555876 1952.309  
## 20 Peru Americas 1952 43.902 8025700 3758.523  
## 21 Puerto Rico Americas 1952 64.280 2227000 3081.960  
## 22 Trinidad and Tobago Americas 1952 59.100 662850 3023.272  
## 23 United States Americas 1952 68.440 157553000 13990.482  
## 24 Uruguay Americas 1952 66.071 2252965 5716.767  
## 25 Venezuela Americas 1952 55.088 5439568 7689.800

## Selecting Columns With the select() Function

To keep the desired rows of a dataset we can use filter() function. Similarly, to keep the desired columns (variables) we can use the select() function. Here we select the country and population columns.

gapminder %>%   
 filter(continent == "Europe" & year == 2007) %>%  
 select(country, pop)

## country pop  
## 1 Albania 3600523  
## 2 Austria 8199783  
## 3 Belgium 10392226  
## 4 Bosnia and Herzegovina 4552198  
## 5 Bulgaria 7322858  
## 6 Croatia 4493312  
## 7 Czech Republic 10228744  
## 8 Denmark 5468120  
## 9 Finland 5238460  
## 10 France 61083916  
## 11 Germany 82400996  
## 12 Greece 10706290  
## 13 Hungary 9956108  
## 14 Iceland 301931  
## 15 Ireland 4109086  
## 16 Italy 58147733  
## 17 Montenegro 684736  
## 18 Netherlands 16570613  
## 19 Norway 4627926  
## 20 Poland 38518241  
## 21 Portugal 10642836  
## 22 Romania 22276056  
## 23 Serbia 10150265  
## 24 Slovak Republic 5447502  
## 25 Slovenia 2009245  
## 26 Spain 40448191  
## 27 Sweden 9031088  
## 28 Switzerland 7554661  
## 29 Turkey 71158647  
## 30 United Kingdom 60776238

**Task 3:** In the following code chunk, use the select() function to retain the country, continent, year, and lifeExp of the gapminder dataset.

gapminder %>%   
 select(country, continent, year, lifeExp)

## country continent year lifeExp  
## 1 Afghanistan Asia 1952 28.80100  
## 2 Afghanistan Asia 1957 30.33200  
## 3 Afghanistan Asia 1962 31.99700  
## 4 Afghanistan Asia 1967 34.02000  
## 5 Afghanistan Asia 1972 36.08800  
## 6 Afghanistan Asia 1977 38.43800  
## 7 Afghanistan Asia 1982 39.85400  
## 8 Afghanistan Asia 1987 40.82200  
## 9 Afghanistan Asia 1992 41.67400  
## 10 Afghanistan Asia 1997 41.76300  
## 11 Afghanistan Asia 2002 42.12900  
## 12 Afghanistan Asia 2007 43.82800  
## 13 Albania Europe 1952 55.23000  
## 14 Albania Europe 1957 59.28000  
## 15 Albania Europe 1962 64.82000  
## 16 Albania Europe 1967 66.22000  
## 17 Albania Europe 1972 67.69000  
## 18 Albania Europe 1977 68.93000  
## 19 Albania Europe 1982 70.42000  
## 20 Albania Europe 1987 72.00000  
## 21 Albania Europe 1992 71.58100  
## 22 Albania Europe 1997 72.95000  
## 23 Albania Europe 2002 75.65100  
## 24 Albania Europe 2007 76.42300  
## 25 Algeria Africa 1952 43.07700  
## 26 Algeria Africa 1957 45.68500  
## 27 Algeria Africa 1962 48.30300  
## 28 Algeria Africa 1967 51.40700  
## 29 Algeria Africa 1972 54.51800  
## 30 Algeria Africa 1977 58.01400  
## 31 Algeria Africa 1982 61.36800  
## 32 Algeria Africa 1987 65.79900  
## 33 Algeria Africa 1992 67.74400  
## 34 Algeria Africa 1997 69.15200  
## 35 Algeria Africa 2002 70.99400  
## 36 Algeria Africa 2007 72.30100  
## 37 Angola Africa 1952 30.01500  
## 38 Angola Africa 1957 31.99900  
## 39 Angola Africa 1962 34.00000  
## 40 Angola Africa 1967 35.98500  
## 41 Angola Africa 1972 37.92800  
## 42 Angola Africa 1977 39.48300  
## 43 Angola Africa 1982 39.94200  
## 44 Angola Africa 1987 39.90600  
## 45 Angola Africa 1992 40.64700  
## 46 Angola Africa 1997 40.96300  
## 47 Angola Africa 2002 41.00300  
## 48 Angola Africa 2007 42.73100  
## 49 Argentina Americas 1952 62.48500  
## 50 Argentina Americas 1957 64.39900  
## 51 Argentina Americas 1962 65.14200  
## 52 Argentina Americas 1967 65.63400  
## 53 Argentina Americas 1972 67.06500  
## 54 Argentina Americas 1977 68.48100  
## 55 Argentina Americas 1982 69.94200  
## 56 Argentina Americas 1987 70.77400  
## 57 Argentina Americas 1992 71.86800  
## 58 Argentina Americas 1997 73.27500  
## 59 Argentina Americas 2002 74.34000  
## 60 Argentina Americas 2007 75.32000  
## 61 Australia Oceania 1952 69.12000  
## 62 Australia Oceania 1957 70.33000  
## 63 Australia Oceania 1962 70.93000  
## 64 Australia Oceania 1967 71.10000  
## 65 Australia Oceania 1972 71.93000  
## 66 Australia Oceania 1977 73.49000  
## 67 Australia Oceania 1982 74.74000  
## 68 Australia Oceania 1987 76.32000  
## 69 Australia Oceania 1992 77.56000  
## 70 Australia Oceania 1997 78.83000  
## 71 Australia Oceania 2002 80.37000  
## 72 Australia Oceania 2007 81.23500  
## 73 Austria Europe 1952 66.80000  
## 74 Austria Europe 1957 67.48000  
## 75 Austria Europe 1962 69.54000  
## 76 Austria Europe 1967 70.14000  
## 77 Austria Europe 1972 70.63000  
## 78 Austria Europe 1977 72.17000  
## 79 Austria Europe 1982 73.18000  
## 80 Austria Europe 1987 74.94000  
## 81 Austria Europe 1992 76.04000  
## 82 Austria Europe 1997 77.51000  
## 83 Austria Europe 2002 78.98000  
## 84 Austria Europe 2007 79.82900  
## 85 Bahrain Asia 1952 50.93900  
## 86 Bahrain Asia 1957 53.83200  
## 87 Bahrain Asia 1962 56.92300  
## 88 Bahrain Asia 1967 59.92300  
## 89 Bahrain Asia 1972 63.30000  
## 90 Bahrain Asia 1977 65.59300  
## 91 Bahrain Asia 1982 69.05200  
## 92 Bahrain Asia 1987 70.75000  
## 93 Bahrain Asia 1992 72.60100  
## 94 Bahrain Asia 1997 73.92500  
## 95 Bahrain Asia 2002 74.79500  
## 96 Bahrain Asia 2007 75.63500  
## 97 Bangladesh Asia 1952 37.48400  
## 98 Bangladesh Asia 1957 39.34800  
## 99 Bangladesh Asia 1962 41.21600  
## 100 Bangladesh Asia 1967 43.45300  
## 101 Bangladesh Asia 1972 45.25200  
## 102 Bangladesh Asia 1977 46.92300  
## 103 Bangladesh Asia 1982 50.00900  
## 104 Bangladesh Asia 1987 52.81900  
## 105 Bangladesh Asia 1992 56.01800  
## 106 Bangladesh Asia 1997 59.41200  
## 107 Bangladesh Asia 2002 62.01300  
## 108 Bangladesh Asia 2007 64.06200  
## 109 Belgium Europe 1952 68.00000  
## 110 Belgium Europe 1957 69.24000  
## 111 Belgium Europe 1962 70.25000  
## 112 Belgium Europe 1967 70.94000  
## 113 Belgium Europe 1972 71.44000  
## 114 Belgium Europe 1977 72.80000  
## 115 Belgium Europe 1982 73.93000  
## 116 Belgium Europe 1987 75.35000  
## 117 Belgium Europe 1992 76.46000  
## 118 Belgium Europe 1997 77.53000  
## 119 Belgium Europe 2002 78.32000  
## 120 Belgium Europe 2007 79.44100  
## 121 Benin Africa 1952 38.22300  
## 122 Benin Africa 1957 40.35800  
## 123 Benin Africa 1962 42.61800  
## 124 Benin Africa 1967 44.88500  
## 125 Benin Africa 1972 47.01400  
## 126 Benin Africa 1977 49.19000  
## 127 Benin Africa 1982 50.90400  
## 128 Benin Africa 1987 52.33700  
## 129 Benin Africa 1992 53.91900  
## 130 Benin Africa 1997 54.77700  
## 131 Benin Africa 2002 54.40600  
## 132 Benin Africa 2007 56.72800  
## 133 Bolivia Americas 1952 40.41400  
## 134 Bolivia Americas 1957 41.89000  
## 135 Bolivia Americas 1962 43.42800  
## 136 Bolivia Americas 1967 45.03200  
## 137 Bolivia Americas 1972 46.71400  
## 138 Bolivia Americas 1977 50.02300  
## 139 Bolivia Americas 1982 53.85900  
## 140 Bolivia Americas 1987 57.25100  
## 141 Bolivia Americas 1992 59.95700  
## 142 Bolivia Americas 1997 62.05000  
## 143 Bolivia Americas 2002 63.88300  
## 144 Bolivia Americas 2007 65.55400  
## 145 Bosnia and Herzegovina Europe 1952 53.82000  
## 146 Bosnia and Herzegovina Europe 1957 58.45000  
## 147 Bosnia and Herzegovina Europe 1962 61.93000  
## 148 Bosnia and Herzegovina Europe 1967 64.79000  
## 149 Bosnia and Herzegovina Europe 1972 67.45000  
## 150 Bosnia and Herzegovina Europe 1977 69.86000  
## 151 Bosnia and Herzegovina Europe 1982 70.69000  
## 152 Bosnia and Herzegovina Europe 1987 71.14000  
## 153 Bosnia and Herzegovina Europe 1992 72.17800  
## 154 Bosnia and Herzegovina Europe 1997 73.24400  
## 155 Bosnia and Herzegovina Europe 2002 74.09000  
## 156 Bosnia and Herzegovina Europe 2007 74.85200  
## 157 Botswana Africa 1952 47.62200  
## 158 Botswana Africa 1957 49.61800  
## 159 Botswana Africa 1962 51.52000  
## 160 Botswana Africa 1967 53.29800  
## 161 Botswana Africa 1972 56.02400  
## 162 Botswana Africa 1977 59.31900  
## 163 Botswana Africa 1982 61.48400  
## 164 Botswana Africa 1987 63.62200  
## 165 Botswana Africa 1992 62.74500  
## 166 Botswana Africa 1997 52.55600  
## 167 Botswana Africa 2002 46.63400  
## 168 Botswana Africa 2007 50.72800  
## 169 Brazil Americas 1952 50.91700  
## 170 Brazil Americas 1957 53.28500  
## 171 Brazil Americas 1962 55.66500  
## 172 Brazil Americas 1967 57.63200  
## 173 Brazil Americas 1972 59.50400  
## 174 Brazil Americas 1977 61.48900  
## 175 Brazil Americas 1982 63.33600  
## 176 Brazil Americas 1987 65.20500  
## 177 Brazil Americas 1992 67.05700  
## 178 Brazil Americas 1997 69.38800  
## 179 Brazil Americas 2002 71.00600  
## 180 Brazil Americas 2007 72.39000  
## 181 Bulgaria Europe 1952 59.60000  
## 182 Bulgaria Europe 1957 66.61000  
## 183 Bulgaria Europe 1962 69.51000  
## 184 Bulgaria Europe 1967 70.42000  
## 185 Bulgaria Europe 1972 70.90000  
## 186 Bulgaria Europe 1977 70.81000  
## 187 Bulgaria Europe 1982 71.08000  
## 188 Bulgaria Europe 1987 71.34000  
## 189 Bulgaria Europe 1992 71.19000  
## 190 Bulgaria Europe 1997 70.32000  
## 191 Bulgaria Europe 2002 72.14000  
## 192 Bulgaria Europe 2007 73.00500  
## 193 Burkina Faso Africa 1952 31.97500  
## 194 Burkina Faso Africa 1957 34.90600  
## 195 Burkina Faso Africa 1962 37.81400  
## 196 Burkina Faso Africa 1967 40.69700  
## 197 Burkina Faso Africa 1972 43.59100  
## 198 Burkina Faso Africa 1977 46.13700  
## 199 Burkina Faso Africa 1982 48.12200  
## 200 Burkina Faso Africa 1987 49.55700  
## 201 Burkina Faso Africa 1992 50.26000  
## 202 Burkina Faso Africa 1997 50.32400  
## 203 Burkina Faso Africa 2002 50.65000  
## 204 Burkina Faso Africa 2007 52.29500  
## 205 Burundi Africa 1952 39.03100  
## 206 Burundi Africa 1957 40.53300  
## 207 Burundi Africa 1962 42.04500  
## 208 Burundi Africa 1967 43.54800  
## 209 Burundi Africa 1972 44.05700  
## 210 Burundi Africa 1977 45.91000  
## 211 Burundi Africa 1982 47.47100  
## 212 Burundi Africa 1987 48.21100  
## 213 Burundi Africa 1992 44.73600  
## 214 Burundi Africa 1997 45.32600  
## 215 Burundi Africa 2002 47.36000  
## 216 Burundi Africa 2007 49.58000  
## 217 Cambodia Asia 1952 39.41700  
## 218 Cambodia Asia 1957 41.36600  
## 219 Cambodia Asia 1962 43.41500  
## 220 Cambodia Asia 1967 45.41500  
## 221 Cambodia Asia 1972 40.31700  
## 222 Cambodia Asia 1977 31.22000  
## 223 Cambodia Asia 1982 50.95700  
## 224 Cambodia Asia 1987 53.91400  
## 225 Cambodia Asia 1992 55.80300  
## 226 Cambodia Asia 1997 56.53400  
## 227 Cambodia Asia 2002 56.75200  
## 228 Cambodia Asia 2007 59.72300  
## 229 Cameroon Africa 1952 38.52300  
## 230 Cameroon Africa 1957 40.42800  
## 231 Cameroon Africa 1962 42.64300  
## 232 Cameroon Africa 1967 44.79900  
## 233 Cameroon Africa 1972 47.04900  
## 234 Cameroon Africa 1977 49.35500  
## 235 Cameroon Africa 1982 52.96100  
## 236 Cameroon Africa 1987 54.98500  
## 237 Cameroon Africa 1992 54.31400  
## 238 Cameroon Africa 1997 52.19900  
## 239 Cameroon Africa 2002 49.85600  
## 240 Cameroon Africa 2007 50.43000  
## 241 Canada Americas 1952 68.75000  
## 242 Canada Americas 1957 69.96000  
## 243 Canada Americas 1962 71.30000  
## 244 Canada Americas 1967 72.13000  
## 245 Canada Americas 1972 72.88000  
## 246 Canada Americas 1977 74.21000  
## 247 Canada Americas 1982 75.76000  
## 248 Canada Americas 1987 76.86000  
## 249 Canada Americas 1992 77.95000  
## 250 Canada Americas 1997 78.61000  
## 251 Canada Americas 2002 79.77000  
## 252 Canada Americas 2007 80.65300  
## 253 Central African Republic Africa 1952 35.46300  
## 254 Central African Republic Africa 1957 37.46400  
## 255 Central African Republic Africa 1962 39.47500  
## 256 Central African Republic Africa 1967 41.47800  
## 257 Central African Republic Africa 1972 43.45700  
## 258 Central African Republic Africa 1977 46.77500  
## 259 Central African Republic Africa 1982 48.29500  
## 260 Central African Republic Africa 1987 50.48500  
## 261 Central African Republic Africa 1992 49.39600  
## 262 Central African Republic Africa 1997 46.06600  
## 263 Central African Republic Africa 2002 43.30800  
## 264 Central African Republic Africa 2007 44.74100  
## 265 Chad Africa 1952 38.09200  
## 266 Chad Africa 1957 39.88100  
## 267 Chad Africa 1962 41.71600  
## 268 Chad Africa 1967 43.60100  
## 269 Chad Africa 1972 45.56900  
## 270 Chad Africa 1977 47.38300  
## 271 Chad Africa 1982 49.51700  
## 272 Chad Africa 1987 51.05100  
## 273 Chad Africa 1992 51.72400  
## 274 Chad Africa 1997 51.57300  
## 275 Chad Africa 2002 50.52500  
## 276 Chad Africa 2007 50.65100  
## 277 Chile Americas 1952 54.74500  
## 278 Chile Americas 1957 56.07400  
## 279 Chile Americas 1962 57.92400  
## 280 Chile Americas 1967 60.52300  
## 281 Chile Americas 1972 63.44100  
## 282 Chile Americas 1977 67.05200  
## 283 Chile Americas 1982 70.56500  
## 284 Chile Americas 1987 72.49200  
## 285 Chile Americas 1992 74.12600  
## 286 Chile Americas 1997 75.81600  
## 287 Chile Americas 2002 77.86000  
## 288 Chile Americas 2007 78.55300  
## 289 China Asia 1952 44.00000  
## 290 China Asia 1957 50.54896  
## 291 China Asia 1962 44.50136  
## 292 China Asia 1967 58.38112  
## 293 China Asia 1972 63.11888  
## 294 China Asia 1977 63.96736  
## 295 China Asia 1982 65.52500  
## 296 China Asia 1987 67.27400  
## 297 China Asia 1992 68.69000  
## 298 China Asia 1997 70.42600  
## 299 China Asia 2002 72.02800  
## 300 China Asia 2007 72.96100  
## 301 Colombia Americas 1952 50.64300  
## 302 Colombia Americas 1957 55.11800  
## 303 Colombia Americas 1962 57.86300  
## 304 Colombia Americas 1967 59.96300  
## 305 Colombia Americas 1972 61.62300  
## 306 Colombia Americas 1977 63.83700  
## 307 Colombia Americas 1982 66.65300  
## 308 Colombia Americas 1987 67.76800  
## 309 Colombia Americas 1992 68.42100  
## 310 Colombia Americas 1997 70.31300  
## 311 Colombia Americas 2002 71.68200  
## 312 Colombia Americas 2007 72.88900  
## 313 Comoros Africa 1952 40.71500  
## 314 Comoros Africa 1957 42.46000  
## 315 Comoros Africa 1962 44.46700  
## 316 Comoros Africa 1967 46.47200  
## 317 Comoros Africa 1972 48.94400  
## 318 Comoros Africa 1977 50.93900  
## 319 Comoros Africa 1982 52.93300  
## 320 Comoros Africa 1987 54.92600  
## 321 Comoros Africa 1992 57.93900  
## 322 Comoros Africa 1997 60.66000  
## 323 Comoros Africa 2002 62.97400  
## 324 Comoros Africa 2007 65.15200  
## 325 Congo, Dem. Rep. Africa 1952 39.14300  
## 326 Congo, Dem. Rep. Africa 1957 40.65200  
## 327 Congo, Dem. Rep. Africa 1962 42.12200  
## 328 Congo, Dem. Rep. Africa 1967 44.05600  
## 329 Congo, Dem. Rep. Africa 1972 45.98900  
## 330 Congo, Dem. Rep. Africa 1977 47.80400  
## 331 Congo, Dem. Rep. Africa 1982 47.78400  
## 332 Congo, Dem. Rep. Africa 1987 47.41200  
## 333 Congo, Dem. Rep. Africa 1992 45.54800  
## 334 Congo, Dem. Rep. Africa 1997 42.58700  
## 335 Congo, Dem. Rep. Africa 2002 44.96600  
## 336 Congo, Dem. Rep. Africa 2007 46.46200  
## 337 Congo, Rep. Africa 1952 42.11100  
## 338 Congo, Rep. Africa 1957 45.05300  
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## 1533 Thailand Asia 1992 67.29800  
## 1534 Thailand Asia 1997 67.52100  
## 1535 Thailand Asia 2002 68.56400  
## 1536 Thailand Asia 2007 70.61600  
## 1537 Togo Africa 1952 38.59600  
## 1538 Togo Africa 1957 41.20800  
## 1539 Togo Africa 1962 43.92200  
## 1540 Togo Africa 1967 46.76900  
## 1541 Togo Africa 1972 49.75900  
## 1542 Togo Africa 1977 52.88700  
## 1543 Togo Africa 1982 55.47100  
## 1544 Togo Africa 1987 56.94100  
## 1545 Togo Africa 1992 58.06100  
## 1546 Togo Africa 1997 58.39000  
## 1547 Togo Africa 2002 57.56100  
## 1548 Togo Africa 2007 58.42000  
## 1549 Trinidad and Tobago Americas 1952 59.10000  
## 1550 Trinidad and Tobago Americas 1957 61.80000  
## 1551 Trinidad and Tobago Americas 1962 64.90000  
## 1552 Trinidad and Tobago Americas 1967 65.40000  
## 1553 Trinidad and Tobago Americas 1972 65.90000  
## 1554 Trinidad and Tobago Americas 1977 68.30000  
## 1555 Trinidad and Tobago Americas 1982 68.83200  
## 1556 Trinidad and Tobago Americas 1987 69.58200  
## 1557 Trinidad and Tobago Americas 1992 69.86200  
## 1558 Trinidad and Tobago Americas 1997 69.46500  
## 1559 Trinidad and Tobago Americas 2002 68.97600  
## 1560 Trinidad and Tobago Americas 2007 69.81900  
## 1561 Tunisia Africa 1952 44.60000  
## 1562 Tunisia Africa 1957 47.10000  
## 1563 Tunisia Africa 1962 49.57900  
## 1564 Tunisia Africa 1967 52.05300  
## 1565 Tunisia Africa 1972 55.60200  
## 1566 Tunisia Africa 1977 59.83700  
## 1567 Tunisia Africa 1982 64.04800  
## 1568 Tunisia Africa 1987 66.89400  
## 1569 Tunisia Africa 1992 70.00100  
## 1570 Tunisia Africa 1997 71.97300  
## 1571 Tunisia Africa 2002 73.04200  
## 1572 Tunisia Africa 2007 73.92300  
## 1573 Turkey Europe 1952 43.58500  
## 1574 Turkey Europe 1957 48.07900  
## 1575 Turkey Europe 1962 52.09800  
## 1576 Turkey Europe 1967 54.33600  
## 1577 Turkey Europe 1972 57.00500  
## 1578 Turkey Europe 1977 59.50700  
## 1579 Turkey Europe 1982 61.03600  
## 1580 Turkey Europe 1987 63.10800  
## 1581 Turkey Europe 1992 66.14600  
## 1582 Turkey Europe 1997 68.83500  
## 1583 Turkey Europe 2002 70.84500  
## 1584 Turkey Europe 2007 71.77700  
## 1585 Uganda Africa 1952 39.97800  
## 1586 Uganda Africa 1957 42.57100  
## 1587 Uganda Africa 1962 45.34400  
## 1588 Uganda Africa 1967 48.05100  
## 1589 Uganda Africa 1972 51.01600  
## 1590 Uganda Africa 1977 50.35000  
## 1591 Uganda Africa 1982 49.84900  
## 1592 Uganda Africa 1987 51.50900  
## 1593 Uganda Africa 1992 48.82500  
## 1594 Uganda Africa 1997 44.57800  
## 1595 Uganda Africa 2002 47.81300  
## 1596 Uganda Africa 2007 51.54200  
## 1597 United Kingdom Europe 1952 69.18000  
## 1598 United Kingdom Europe 1957 70.42000  
## 1599 United Kingdom Europe 1962 70.76000  
## 1600 United Kingdom Europe 1967 71.36000  
## 1601 United Kingdom Europe 1972 72.01000  
## 1602 United Kingdom Europe 1977 72.76000  
## 1603 United Kingdom Europe 1982 74.04000  
## 1604 United Kingdom Europe 1987 75.00700  
## 1605 United Kingdom Europe 1992 76.42000  
## 1606 United Kingdom Europe 1997 77.21800  
## 1607 United Kingdom Europe 2002 78.47100  
## 1608 United Kingdom Europe 2007 79.42500  
## 1609 United States Americas 1952 68.44000  
## 1610 United States Americas 1957 69.49000  
## 1611 United States Americas 1962 70.21000  
## 1612 United States Americas 1967 70.76000  
## 1613 United States Americas 1972 71.34000  
## 1614 United States Americas 1977 73.38000  
## 1615 United States Americas 1982 74.65000  
## 1616 United States Americas 1987 75.02000  
## 1617 United States Americas 1992 76.09000  
## 1618 United States Americas 1997 76.81000  
## 1619 United States Americas 2002 77.31000  
## 1620 United States Americas 2007 78.24200  
## 1621 Uruguay Americas 1952 66.07100  
## 1622 Uruguay Americas 1957 67.04400  
## 1623 Uruguay Americas 1962 68.25300  
## 1624 Uruguay Americas 1967 68.46800  
## 1625 Uruguay Americas 1972 68.67300  
## 1626 Uruguay Americas 1977 69.48100  
## 1627 Uruguay Americas 1982 70.80500  
## 1628 Uruguay Americas 1987 71.91800  
## 1629 Uruguay Americas 1992 72.75200  
## 1630 Uruguay Americas 1997 74.22300  
## 1631 Uruguay Americas 2002 75.30700  
## 1632 Uruguay Americas 2007 76.38400  
## 1633 Venezuela Americas 1952 55.08800  
## 1634 Venezuela Americas 1957 57.90700  
## 1635 Venezuela Americas 1962 60.77000  
## 1636 Venezuela Americas 1967 63.47900  
## 1637 Venezuela Americas 1972 65.71200  
## 1638 Venezuela Americas 1977 67.45600  
## 1639 Venezuela Americas 1982 68.55700  
## 1640 Venezuela Americas 1987 70.19000  
## 1641 Venezuela Americas 1992 71.15000  
## 1642 Venezuela Americas 1997 72.14600  
## 1643 Venezuela Americas 2002 72.76600  
## 1644 Venezuela Americas 2007 73.74700  
## 1645 Vietnam Asia 1952 40.41200  
## 1646 Vietnam Asia 1957 42.88700  
## 1647 Vietnam Asia 1962 45.36300  
## 1648 Vietnam Asia 1967 47.83800  
## 1649 Vietnam Asia 1972 50.25400  
## 1650 Vietnam Asia 1977 55.76400  
## 1651 Vietnam Asia 1982 58.81600  
## 1652 Vietnam Asia 1987 62.82000  
## 1653 Vietnam Asia 1992 67.66200  
## 1654 Vietnam Asia 1997 70.67200  
## 1655 Vietnam Asia 2002 73.01700  
## 1656 Vietnam Asia 2007 74.24900  
## 1657 West Bank and Gaza Asia 1952 43.16000  
## 1658 West Bank and Gaza Asia 1957 45.67100  
## 1659 West Bank and Gaza Asia 1962 48.12700  
## 1660 West Bank and Gaza Asia 1967 51.63100  
## 1661 West Bank and Gaza Asia 1972 56.53200  
## 1662 West Bank and Gaza Asia 1977 60.76500  
## 1663 West Bank and Gaza Asia 1982 64.40600  
## 1664 West Bank and Gaza Asia 1987 67.04600  
## 1665 West Bank and Gaza Asia 1992 69.71800  
## 1666 West Bank and Gaza Asia 1997 71.09600  
## 1667 West Bank and Gaza Asia 2002 72.37000  
## 1668 West Bank and Gaza Asia 2007 73.42200  
## 1669 Yemen, Rep. Asia 1952 32.54800  
## 1670 Yemen, Rep. Asia 1957 33.97000  
## 1671 Yemen, Rep. Asia 1962 35.18000  
## 1672 Yemen, Rep. Asia 1967 36.98400  
## 1673 Yemen, Rep. Asia 1972 39.84800  
## 1674 Yemen, Rep. Asia 1977 44.17500  
## 1675 Yemen, Rep. Asia 1982 49.11300  
## 1676 Yemen, Rep. Asia 1987 52.92200  
## 1677 Yemen, Rep. Asia 1992 55.59900  
## 1678 Yemen, Rep. Asia 1997 58.02000  
## 1679 Yemen, Rep. Asia 2002 60.30800  
## 1680 Yemen, Rep. Asia 2007 62.69800  
## 1681 Zambia Africa 1952 42.03800  
## 1682 Zambia Africa 1957 44.07700  
## 1683 Zambia Africa 1962 46.02300  
## 1684 Zambia Africa 1967 47.76800  
## 1685 Zambia Africa 1972 50.10700  
## 1686 Zambia Africa 1977 51.38600  
## 1687 Zambia Africa 1982 51.82100  
## 1688 Zambia Africa 1987 50.82100  
## 1689 Zambia Africa 1992 46.10000  
## 1690 Zambia Africa 1997 40.23800  
## 1691 Zambia Africa 2002 39.19300  
## 1692 Zambia Africa 2007 42.38400  
## 1693 Zimbabwe Africa 1952 48.45100  
## 1694 Zimbabwe Africa 1957 50.46900  
## 1695 Zimbabwe Africa 1962 52.35800  
## 1696 Zimbabwe Africa 1967 53.99500  
## 1697 Zimbabwe Africa 1972 55.63500  
## 1698 Zimbabwe Africa 1977 57.67400  
## 1699 Zimbabwe Africa 1982 60.36300  
## 1700 Zimbabwe Africa 1987 62.35100  
## 1701 Zimbabwe Africa 1992 60.37700  
## 1702 Zimbabwe Africa 1997 46.80900  
## 1703 Zimbabwe Africa 2002 39.98900  
## 1704 Zimbabwe Africa 2007 43.48700

## Create a New Variable With the mutate() Function

The filter() and select() functions help us take “actions” on the dataset, so they are described as “verbs for data manipulation”. The most commonly used verbs (functions) are: select() , filter(), summarise(), mutate(), and arrange(). Let’s now demonstrate using the last two verbs.

The pop variable gives the population size for each countries. But it is hard to read such big numbers in the table above. So we could create a variable to store that number in millions (as population are usually expressed in millions). The mutate() function enables us to change variables in the dataset, including creating new variables.

In the code below we created a new variable pop\_mill using the mutate() function by dividing the existing variable pop by a million (1,000,000). To keep only two decimal places we use the round() function.

gapminder %>%  
 filter(continent == "Europe" & year == 2007) %>%  
 select(country, pop) %>%  
 mutate(pop\_mill = round(pop / 1000000, 2))

## country pop pop\_mill  
## 1 Albania 3600523 3.60  
## 2 Austria 8199783 8.20  
## 3 Belgium 10392226 10.39  
## 4 Bosnia and Herzegovina 4552198 4.55  
## 5 Bulgaria 7322858 7.32  
## 6 Croatia 4493312 4.49  
## 7 Czech Republic 10228744 10.23  
## 8 Denmark 5468120 5.47  
## 9 Finland 5238460 5.24  
## 10 France 61083916 61.08  
## 11 Germany 82400996 82.40  
## 12 Greece 10706290 10.71  
## 13 Hungary 9956108 9.96  
## 14 Iceland 301931 0.30  
## 15 Ireland 4109086 4.11  
## 16 Italy 58147733 58.15  
## 17 Montenegro 684736 0.68  
## 18 Netherlands 16570613 16.57  
## 19 Norway 4627926 4.63  
## 20 Poland 38518241 38.52  
## 21 Portugal 10642836 10.64  
## 22 Romania 22276056 22.28  
## 23 Serbia 10150265 10.15  
## 24 Slovak Republic 5447502 5.45  
## 25 Slovenia 2009245 2.01  
## 26 Spain 40448191 40.45  
## 27 Sweden 9031088 9.03  
## 28 Switzerland 7554661 7.55  
## 29 Turkey 71158647 71.16  
## 30 United Kingdom 60776238 60.78

**Task 4:** Create a new variable to store the total GDP of each country each year in billions (1,000,000,000) rounded to two decimal places. Hint: you need to multiply the GDP per capita by the total population to get total GDP of that year using the mutate() function.

gapminder %>%  
 select(country, pop, gdpPercap) %>%  
 mutate(gdp\_bill = round(gdpPercap\*pop / 1000000000, 2))

## country pop gdpPercap gdp\_bill  
## 1 Afghanistan 8425333 779.4453 6.57  
## 2 Afghanistan 9240934 820.8530 7.59  
## 3 Afghanistan 10267083 853.1007 8.76  
## 4 Afghanistan 11537966 836.1971 9.65  
## 5 Afghanistan 13079460 739.9811 9.68  
## 6 Afghanistan 14880372 786.1134 11.70  
## 7 Afghanistan 12881816 978.0114 12.60  
## 8 Afghanistan 13867957 852.3959 11.82  
## 9 Afghanistan 16317921 649.3414 10.60  
## 10 Afghanistan 22227415 635.3414 14.12  
## 11 Afghanistan 25268405 726.7341 18.36  
## 12 Afghanistan 31889923 974.5803 31.08  
## 13 Albania 1282697 1601.0561 2.05  
## 14 Albania 1476505 1942.2842 2.87  
## 15 Albania 1728137 2312.8890 4.00  
## 16 Albania 1984060 2760.1969 5.48  
## 17 Albania 2263554 3313.4222 7.50  
## 18 Albania 2509048 3533.0039 8.86  
## 19 Albania 2780097 3630.8807 10.09  
## 20 Albania 3075321 3738.9327 11.50  
## 21 Albania 3326498 2497.4379 8.31  
## 22 Albania 3428038 3193.0546 10.95  
## 23 Albania 3508512 4604.2117 16.15  
## 24 Albania 3600523 5937.0295 21.38  
## 25 Algeria 9279525 2449.0082 22.73  
## 26 Algeria 10270856 3013.9760 30.96  
## 27 Algeria 11000948 2550.8169 28.06  
## 28 Algeria 12760499 3246.9918 41.43  
## 29 Algeria 14760787 4182.6638 61.74  
## 30 Algeria 17152804 4910.4168 84.23  
## 31 Algeria 20033753 5745.1602 115.10  
## 32 Algeria 23254956 5681.3585 132.12  
## 33 Algeria 26298373 5023.2166 132.10  
## 34 Algeria 29072015 4797.2951 139.47  
## 35 Algeria 31287142 5288.0404 165.45  
## 36 Algeria 33333216 6223.3675 207.44  
## 37 Angola 4232095 3520.6103 14.90  
## 38 Angola 4561361 3827.9405 17.46  
## 39 Angola 4826015 4269.2767 20.60  
## 40 Angola 5247469 5522.7764 28.98  
## 41 Angola 5894858 5473.2880 32.26  
## 42 Angola 6162675 3008.6474 18.54  
## 43 Angola 7016384 2756.9537 19.34  
## 44 Angola 7874230 2430.2083 19.14  
## 45 Angola 8735988 2627.8457 22.96  
## 46 Angola 9875024 2277.1409 22.49  
## 47 Angola 10866106 2773.2873 30.13  
## 48 Angola 12420476 4797.2313 59.58  
## 49 Argentina 17876956 5911.3151 105.68  
## 50 Argentina 19610538 6856.8562 134.47  
## 51 Argentina 21283783 7133.1660 151.82  
## 52 Argentina 22934225 8052.9530 184.69  
## 53 Argentina 24779799 9443.0385 234.00  
## 54 Argentina 26983828 10079.0267 271.97  
## 55 Argentina 29341374 8997.8974 264.01  
## 56 Argentina 31620918 9139.6714 289.00  
## 57 Argentina 33958947 9308.4187 316.10  
## 58 Argentina 36203463 10967.2820 397.05  
## 59 Argentina 38331121 8797.6407 337.22  
## 60 Argentina 40301927 12779.3796 515.03  
## 61 Australia 8691212 10039.5956 87.26  
## 62 Australia 9712569 10949.6496 106.35  
## 63 Australia 10794968 12217.2269 131.88  
## 64 Australia 11872264 14526.1246 172.46  
## 65 Australia 13177000 16788.6295 221.22  
## 66 Australia 14074100 18334.1975 258.04  
## 67 Australia 15184200 19477.0093 295.74  
## 68 Australia 16257249 21888.8890 355.85  
## 69 Australia 17481977 23424.7668 409.51  
## 70 Australia 18565243 26997.9366 501.22  
## 71 Australia 19546792 30687.7547 599.85  
## 72 Australia 20434176 34435.3674 703.66  
## 73 Austria 6927772 6137.0765 42.52  
## 74 Austria 6965860 8842.5980 61.60  
## 75 Austria 7129864 10750.7211 76.65  
## 76 Austria 7376998 12834.6024 94.68  
## 77 Austria 7544201 16661.6256 125.70  
## 78 Austria 7568430 19749.4223 149.47  
## 79 Austria 7574613 21597.0836 163.59  
## 80 Austria 7578903 23687.8261 179.53  
## 81 Austria 7914969 27042.0187 214.04  
## 82 Austria 8069876 29095.9207 234.80  
## 83 Austria 8148312 32417.6077 264.15  
## 84 Austria 8199783 36126.4927 296.23  
## 85 Bahrain 120447 9867.0848 1.19  
## 86 Bahrain 138655 11635.7995 1.61  
## 87 Bahrain 171863 12753.2751 2.19  
## 88 Bahrain 202182 14804.6727 2.99  
## 89 Bahrain 230800 18268.6584 4.22  
## 90 Bahrain 297410 19340.1020 5.75  
## 91 Bahrain 377967 19211.1473 7.26  
## 92 Bahrain 454612 18524.0241 8.42  
## 93 Bahrain 529491 19035.5792 10.08  
## 94 Bahrain 598561 20292.0168 12.15  
## 95 Bahrain 656397 23403.5593 15.36  
## 96 Bahrain 708573 29796.0483 21.11  
## 97 Bangladesh 46886859 684.2442 32.08  
## 98 Bangladesh 51365468 661.6375 33.99  
## 99 Bangladesh 56839289 686.3416 39.01  
## 100 Bangladesh 62821884 721.1861 45.31  
## 101 Bangladesh 70759295 630.2336 44.59  
## 102 Bangladesh 80428306 659.8772 53.07  
## 103 Bangladesh 93074406 676.9819 63.01  
## 104 Bangladesh 103764241 751.9794 78.03  
## 105 Bangladesh 113704579 837.8102 95.26  
## 106 Bangladesh 123315288 972.7700 119.96  
## 107 Bangladesh 135656790 1136.3904 154.16  
## 108 Bangladesh 150448339 1391.2538 209.31  
## 109 Belgium 8730405 8343.1051 72.84  
## 110 Belgium 8989111 9714.9606 87.33  
## 111 Belgium 9218400 10991.2068 101.32  
## 112 Belgium 9556500 13149.0412 125.66  
## 113 Belgium 9709100 16672.1436 161.87  
## 114 Belgium 9821800 19117.9745 187.77  
## 115 Belgium 9856303 20979.8459 206.78  
## 116 Belgium 9870200 22525.5631 222.33  
## 117 Belgium 10045622 25575.5707 256.92  
## 118 Belgium 10199787 27561.1966 281.12  
## 119 Belgium 10311970 30485.8838 314.37  
## 120 Belgium 10392226 33692.6051 350.14  
## 121 Benin 1738315 1062.7522 1.85  
## 122 Benin 1925173 959.6011 1.85  
## 123 Benin 2151895 949.4991 2.04  
## 124 Benin 2427334 1035.8314 2.51  
## 125 Benin 2761407 1085.7969 3.00  
## 126 Benin 3168267 1029.1613 3.26  
## 127 Benin 3641603 1277.8976 4.65  
## 128 Benin 4243788 1225.8560 5.20  
## 129 Benin 4981671 1191.2077 5.93  
## 130 Benin 6066080 1232.9753 7.48  
## 131 Benin 7026113 1372.8779 9.65  
## 132 Benin 8078314 1441.2849 11.64  
## 133 Bolivia 2883315 2677.3263 7.72  
## 134 Bolivia 3211738 2127.6863 6.83  
## 135 Bolivia 3593918 2180.9725 7.84  
## 136 Bolivia 4040665 2586.8861 10.45  
## 137 Bolivia 4565872 2980.3313 13.61  
## 138 Bolivia 5079716 3548.0978 18.02  
## 139 Bolivia 5642224 3156.5105 17.81  
## 140 Bolivia 6156369 2753.6915 16.95  
## 141 Bolivia 6893451 2961.6997 20.42  
## 142 Bolivia 7693188 3326.1432 25.59  
## 143 Bolivia 8445134 3413.2627 28.83  
## 144 Bolivia 9119152 3822.1371 34.85  
## 145 Bosnia and Herzegovina 2791000 973.5332 2.72  
## 146 Bosnia and Herzegovina 3076000 1353.9892 4.16  
## 147 Bosnia and Herzegovina 3349000 1709.6837 5.73  
## 148 Bosnia and Herzegovina 3585000 2172.3524 7.79  
## 149 Bosnia and Herzegovina 3819000 2860.1698 10.92  
## 150 Bosnia and Herzegovina 4086000 3528.4813 14.42  
## 151 Bosnia and Herzegovina 4172693 4126.6132 17.22  
## 152 Bosnia and Herzegovina 4338977 4314.1148 18.72  
## 153 Bosnia and Herzegovina 4256013 2546.7814 10.84  
## 154 Bosnia and Herzegovina 3607000 4766.3559 17.19  
## 155 Bosnia and Herzegovina 4165416 6018.9752 25.07  
## 156 Bosnia and Herzegovina 4552198 7446.2988 33.90  
## 157 Botswana 442308 851.2411 0.38  
## 158 Botswana 474639 918.2325 0.44  
## 159 Botswana 512764 983.6540 0.50  
## 160 Botswana 553541 1214.7093 0.67  
## 161 Botswana 619351 2263.6111 1.40  
## 162 Botswana 781472 3214.8578 2.51  
## 163 Botswana 970347 4551.1421 4.42  
## 164 Botswana 1151184 6205.8839 7.14  
## 165 Botswana 1342614 7954.1116 10.68  
## 166 Botswana 1536536 8647.1423 13.29  
## 167 Botswana 1630347 11003.6051 17.94  
## 168 Botswana 1639131 12569.8518 20.60  
## 169 Brazil 56602560 2108.9444 119.37  
## 170 Brazil 65551171 2487.3660 163.05  
## 171 Brazil 76039390 3336.5858 253.71  
## 172 Brazil 88049823 3429.8644 302.00  
## 173 Brazil 100840058 4985.7115 502.76  
## 174 Brazil 114313951 6660.1187 761.34  
## 175 Brazil 128962939 7030.8359 906.72  
## 176 Brazil 142938076 7807.0958 1115.93  
## 177 Brazil 155975974 6950.2830 1084.08  
## 178 Brazil 168546719 7957.9808 1341.29  
## 179 Brazil 179914212 8131.2128 1462.92  
## 180 Brazil 190010647 9065.8008 1722.60  
## 181 Bulgaria 7274900 2444.2866 17.78  
## 182 Bulgaria 7651254 3008.6707 23.02  
## 183 Bulgaria 8012946 4254.3378 34.09  
## 184 Bulgaria 8310226 5577.0028 46.35  
## 185 Bulgaria 8576200 6597.4944 56.58  
## 186 Bulgaria 8797022 7612.2404 66.97  
## 187 Bulgaria 8892098 8224.1916 73.13  
## 188 Bulgaria 8971958 8239.8548 73.93  
## 189 Bulgaria 8658506 6302.6234 54.57  
## 190 Bulgaria 8066057 5970.3888 48.16  
## 191 Bulgaria 7661799 7696.7777 58.97  
## 192 Bulgaria 7322858 10680.7928 78.21  
## 193 Burkina Faso 4469979 543.2552 2.43  
## 194 Burkina Faso 4713416 617.1835 2.91  
## 195 Burkina Faso 4919632 722.5120 3.55  
## 196 Burkina Faso 5127935 794.8266 4.08  
## 197 Burkina Faso 5433886 854.7360 4.64  
## 198 Burkina Faso 5889574 743.3870 4.38  
## 199 Burkina Faso 6634596 807.1986 5.36  
## 200 Burkina Faso 7586551 912.0631 6.92  
## 201 Burkina Faso 8878303 931.7528 8.27  
## 202 Burkina Faso 10352843 946.2950 9.80  
## 203 Burkina Faso 12251209 1037.6452 12.71  
## 204 Burkina Faso 14326203 1217.0330 17.44  
## 205 Burundi 2445618 339.2965 0.83  
## 206 Burundi 2667518 379.5646 1.01  
## 207 Burundi 2961915 355.2032 1.05  
## 208 Burundi 3330989 412.9775 1.38  
## 209 Burundi 3529983 464.0995 1.64  
## 210 Burundi 3834415 556.1033 2.13  
## 211 Burundi 4580410 559.6032 2.56  
## 212 Burundi 5126023 621.8188 3.19  
## 213 Burundi 5809236 631.6999 3.67  
## 214 Burundi 6121610 463.1151 2.84  
## 215 Burundi 7021078 446.4035 3.13  
## 216 Burundi 8390505 430.0707 3.61  
## 217 Cambodia 4693836 368.4693 1.73  
## 218 Cambodia 5322536 434.0383 2.31  
## 219 Cambodia 6083619 496.9136 3.02  
## 220 Cambodia 6960067 523.4323 3.64  
## 221 Cambodia 7450606 421.6240 3.14  
## 222 Cambodia 6978607 524.9722 3.66  
## 223 Cambodia 7272485 624.4755 4.54  
## 224 Cambodia 8371791 683.8956 5.73  
## 225 Cambodia 10150094 682.3032 6.93  
## 226 Cambodia 11782962 734.2852 8.65  
## 227 Cambodia 12926707 896.2260 11.59  
## 228 Cambodia 14131858 1713.7787 24.22  
## 229 Cameroon 5009067 1172.6677 5.87  
## 230 Cameroon 5359923 1313.0481 7.04  
## 231 Cameroon 5793633 1399.6074 8.11  
## 232 Cameroon 6335506 1508.4531 9.56  
## 233 Cameroon 7021028 1684.1465 11.82  
## 234 Cameroon 7959865 1783.4329 14.20  
## 235 Cameroon 9250831 2367.9833 21.91  
## 236 Cameroon 10780667 2602.6642 28.06  
## 237 Cameroon 12467171 1793.1633 22.36  
## 238 Cameroon 14195809 1694.3375 24.05  
## 239 Cameroon 15929988 1934.0114 30.81  
## 240 Cameroon 17696293 2042.0952 36.14  
## 241 Canada 14785584 11367.1611 168.07  
## 242 Canada 17010154 12489.9501 212.46  
## 243 Canada 18985849 13462.4855 255.60  
## 244 Canada 20819767 16076.5880 334.71  
## 245 Canada 22284500 18970.5709 422.75  
## 246 Canada 23796400 22090.8831 525.68  
## 247 Canada 25201900 22898.7921 577.09  
## 248 Canada 26549700 26626.5150 706.93  
## 249 Canada 28523502 26342.8843 751.39  
## 250 Canada 30305843 28954.9259 877.50  
## 251 Canada 31902268 33328.9651 1063.27  
## 252 Canada 33390141 36319.2350 1212.70  
## 253 Central African Republic 1291695 1071.3107 1.38  
## 254 Central African Republic 1392284 1190.8443 1.66  
## 255 Central African Republic 1523478 1193.0688 1.82  
## 256 Central African Republic 1733638 1136.0566 1.97  
## 257 Central African Republic 1927260 1070.0133 2.06  
## 258 Central African Republic 2167533 1109.3743 2.40  
## 259 Central African Republic 2476971 956.7530 2.37  
## 260 Central African Republic 2840009 844.8764 2.40  
## 261 Central African Republic 3265124 747.9055 2.44  
## 262 Central African Republic 3696513 740.5063 2.74  
## 263 Central African Republic 4048013 738.6906 2.99  
## 264 Central African Republic 4369038 706.0165 3.08  
## 265 Chad 2682462 1178.6659 3.16  
## 266 Chad 2894855 1308.4956 3.79  
## 267 Chad 3150417 1389.8176 4.38  
## 268 Chad 3495967 1196.8106 4.18  
## 269 Chad 3899068 1104.1040 4.30  
## 270 Chad 4388260 1133.9850 4.98  
## 271 Chad 4875118 797.9081 3.89  
## 272 Chad 5498955 952.3861 5.24  
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## 1581 Turkey 58179144 5678.3483 330.36  
## 1582 Turkey 63047647 6601.4299 416.20  
## 1583 Turkey 67308928 6508.0857 438.05  
## 1584 Turkey 71158647 8458.2764 601.88  
## 1585 Uganda 5824797 734.7535 4.28  
## 1586 Uganda 6675501 774.3711 5.17  
## 1587 Uganda 7688797 767.2717 5.90  
## 1588 Uganda 8900294 908.9185 8.09  
## 1589 Uganda 10190285 950.7359 9.69  
## 1590 Uganda 11457758 843.7331 9.67  
## 1591 Uganda 12939400 682.2662 8.83  
## 1592 Uganda 15283050 617.7244 9.44  
## 1593 Uganda 18252190 644.1708 11.76  
## 1594 Uganda 21210254 816.5591 17.32  
## 1595 Uganda 24739869 927.7210 22.95  
## 1596 Uganda 29170398 1056.3801 30.82  
## 1597 United Kingdom 50430000 9979.5085 503.27  
## 1598 United Kingdom 51430000 11283.1779 580.29  
## 1599 United Kingdom 53292000 12477.1771 664.93  
## 1600 United Kingdom 54959000 14142.8509 777.28  
## 1601 United Kingdom 56079000 15895.1164 891.38  
## 1602 United Kingdom 56179000 17428.7485 979.13  
## 1603 United Kingdom 56339704 18232.4245 1027.21  
## 1604 United Kingdom 56981620 21664.7877 1234.49  
## 1605 United Kingdom 57866349 22705.0925 1313.86  
## 1606 United Kingdom 58808266 26074.5314 1533.40  
## 1607 United Kingdom 59912431 29478.9992 1766.16  
## 1608 United Kingdom 60776238 33203.2613 2017.97  
## 1609 United States 157553000 13990.4821 2204.24  
## 1610 United States 171984000 14847.1271 2553.47  
## 1611 United States 186538000 16173.1459 3016.91  
## 1612 United States 198712000 19530.3656 3880.92  
## 1613 United States 209896000 21806.0359 4577.00  
## 1614 United States 220239000 24072.6321 5301.73  
## 1615 United States 232187835 25009.5591 5806.92  
## 1616 United States 242803533 29884.3504 7256.03  
## 1617 United States 256894189 32003.9322 8221.62  
## 1618 United States 272911760 35767.4330 9761.35  
## 1619 United States 287675526 39097.0995 11247.28  
## 1620 United States 301139947 42951.6531 12934.46  
## 1621 Uruguay 2252965 5716.7667 12.88  
## 1622 Uruguay 2424959 6150.7730 14.92  
## 1623 Uruguay 2598466 5603.3577 14.56  
## 1624 Uruguay 2748579 5444.6196 14.96  
## 1625 Uruguay 2829526 5703.4089 16.14  
## 1626 Uruguay 2873520 6504.3397 18.69  
## 1627 Uruguay 2953997 6920.2231 20.44  
## 1628 Uruguay 3045153 7452.3990 22.69  
## 1629 Uruguay 3149262 8137.0048 25.63  
## 1630 Uruguay 3262838 9230.2407 30.12  
## 1631 Uruguay 3363085 7727.0020 25.99  
## 1632 Uruguay 3447496 10611.4630 36.58  
## 1633 Venezuela 5439568 7689.7998 41.83  
## 1634 Venezuela 6702668 9802.4665 65.70  
## 1635 Venezuela 8143375 8422.9742 68.59  
## 1636 Venezuela 9709552 9541.4742 92.64  
## 1637 Venezuela 11515649 10505.2597 120.97  
## 1638 Venezuela 13503563 13143.9510 177.49  
## 1639 Venezuela 15620766 11152.4101 174.21  
## 1640 Venezuela 17910182 9883.5846 177.02  
## 1641 Venezuela 20265563 10733.9263 217.53  
## 1642 Venezuela 22374398 10165.4952 227.45  
## 1643 Venezuela 24287670 8605.0478 209.00  
## 1644 Venezuela 26084662 11415.8057 297.78  
## 1645 Vietnam 26246839 605.0665 15.88  
## 1646 Vietnam 28998543 676.2854 19.61  
## 1647 Vietnam 33796140 772.0492 26.09  
## 1648 Vietnam 39463910 637.1233 25.14  
## 1649 Vietnam 44655014 699.5016 31.24  
## 1650 Vietnam 50533506 713.5371 36.06  
## 1651 Vietnam 56142181 707.2358 39.71  
## 1652 Vietnam 62826491 820.7994 51.57  
## 1653 Vietnam 69940728 989.0231 69.17  
## 1654 Vietnam 76048996 1385.8968 105.40  
## 1655 Vietnam 80908147 1764.4567 142.76  
## 1656 Vietnam 85262356 2441.5764 208.17  
## 1657 West Bank and Gaza 1030585 1515.5923 1.56  
## 1658 West Bank and Gaza 1070439 1827.0677 1.96  
## 1659 West Bank and Gaza 1133134 2198.9563 2.49  
## 1660 West Bank and Gaza 1142636 2649.7150 3.03  
## 1661 West Bank and Gaza 1089572 3133.4093 3.41  
## 1662 West Bank and Gaza 1261091 3682.8315 4.64  
## 1663 West Bank and Gaza 1425876 4336.0321 6.18  
## 1664 West Bank and Gaza 1691210 5107.1974 8.64  
## 1665 West Bank and Gaza 2104779 6017.6548 12.67  
## 1666 West Bank and Gaza 2826046 7110.6676 20.10  
## 1667 West Bank and Gaza 3389578 4515.4876 15.31  
## 1668 West Bank and Gaza 4018332 3025.3498 12.16  
## 1669 Yemen, Rep. 4963829 781.7176 3.88  
## 1670 Yemen, Rep. 5498090 804.8305 4.43  
## 1671 Yemen, Rep. 6120081 825.6232 5.05  
## 1672 Yemen, Rep. 6740785 862.4421 5.81  
## 1673 Yemen, Rep. 7407075 1265.0470 9.37  
## 1674 Yemen, Rep. 8403990 1829.7652 15.38  
## 1675 Yemen, Rep. 9657618 1977.5570 19.10  
## 1676 Yemen, Rep. 11219340 1971.7415 22.12  
## 1677 Yemen, Rep. 13367997 1879.4967 25.13  
## 1678 Yemen, Rep. 15826497 2117.4845 33.51  
## 1679 Yemen, Rep. 18701257 2234.8208 41.79  
## 1680 Yemen, Rep. 22211743 2280.7699 50.66  
## 1681 Zambia 2672000 1147.3888 3.07  
## 1682 Zambia 3016000 1311.9568 3.96  
## 1683 Zambia 3421000 1452.7258 4.97  
## 1684 Zambia 3900000 1777.0773 6.93  
## 1685 Zambia 4506497 1773.4983 7.99  
## 1686 Zambia 5216550 1588.6883 8.29  
## 1687 Zambia 6100407 1408.6786 8.59  
## 1688 Zambia 7272406 1213.3151 8.82  
## 1689 Zambia 8381163 1210.8846 10.15  
## 1690 Zambia 9417789 1071.3538 10.09  
## 1691 Zambia 10595811 1071.6139 11.35  
## 1692 Zambia 11746035 1271.2116 14.93  
## 1693 Zimbabwe 3080907 406.8841 1.25  
## 1694 Zimbabwe 3646340 518.7643 1.89  
## 1695 Zimbabwe 4277736 527.2722 2.26  
## 1696 Zimbabwe 4995432 569.7951 2.85  
## 1697 Zimbabwe 5861135 799.3622 4.69  
## 1698 Zimbabwe 6642107 685.5877 4.55  
## 1699 Zimbabwe 7636524 788.8550 6.02  
## 1700 Zimbabwe 9216418 706.1573 6.51  
## 1701 Zimbabwe 10704340 693.4208 7.42  
## 1702 Zimbabwe 11404948 792.4500 9.04  
## 1703 Zimbabwe 11926563 672.0386 8.02  
## 1704 Zimbabwe 12311143 469.7093 5.78

## Arrange rows of a dataset using arrange() function

We may also want to rank the five European countries by population size in 2007. We can do that using the arrange() function.

The code below arranges the dataset in **ascending** order by the pop variable, using the arrange() function. Not surprisingly Ireland made the list due its small size within Europe!

gapminder %>%  
 filter(continent == "Europe" & year == 2007) %>%  
 select(country, pop) %>%  
 mutate(pop\_mill = round(pop / 1000000, 2)) %>%  
 arrange(pop)

## country pop pop\_mill  
## 1 Iceland 301931 0.30  
## 2 Montenegro 684736 0.68  
## 3 Slovenia 2009245 2.01  
## 4 Albania 3600523 3.60  
## 5 Ireland 4109086 4.11  
## 6 Croatia 4493312 4.49  
## 7 Bosnia and Herzegovina 4552198 4.55  
## 8 Norway 4627926 4.63  
## 9 Finland 5238460 5.24  
## 10 Slovak Republic 5447502 5.45  
## 11 Denmark 5468120 5.47  
## 12 Bulgaria 7322858 7.32  
## 13 Switzerland 7554661 7.55  
## 14 Austria 8199783 8.20  
## 15 Sweden 9031088 9.03  
## 16 Hungary 9956108 9.96  
## 17 Serbia 10150265 10.15  
## 18 Czech Republic 10228744 10.23  
## 19 Belgium 10392226 10.39  
## 20 Portugal 10642836 10.64  
## 21 Greece 10706290 10.71  
## 22 Netherlands 16570613 16.57  
## 23 Romania 22276056 22.28  
## 24 Poland 38518241 38.52  
## 25 Spain 40448191 40.45  
## 26 Italy 58147733 58.15  
## 27 United Kingdom 60776238 60.78  
## 28 France 61083916 61.08  
## 29 Turkey 71158647 71.16  
## 30 Germany 82400996 82.40

Now, if we want to see the top five most populous countries in Europe in 2007, we can use the desc() function inside the arrange() function. By default the arrange() function arrange the dataset from the smallest to the largest, but with the help of desc() function we can arrange the dataset from the largest to the smallest. See the code below, how we can use the desc() function inside the arrange() function to arrange the dataset from the largest to the smallest.

gapminder %>%  
 filter(continent == "Europe" & year == 2007) %>%  
 select(country, pop) %>%  
 mutate(pop\_mill = round(pop / 1000000, 2)) %>%  
 arrange(desc(pop))

## country pop pop\_mill  
## 1 Germany 82400996 82.40  
## 2 Turkey 71158647 71.16  
## 3 France 61083916 61.08  
## 4 United Kingdom 60776238 60.78  
## 5 Italy 58147733 58.15  
## 6 Spain 40448191 40.45  
## 7 Poland 38518241 38.52  
## 8 Romania 22276056 22.28  
## 9 Netherlands 16570613 16.57  
## 10 Greece 10706290 10.71  
## 11 Portugal 10642836 10.64  
## 12 Belgium 10392226 10.39  
## 13 Czech Republic 10228744 10.23  
## 14 Serbia 10150265 10.15  
## 15 Hungary 9956108 9.96  
## 16 Sweden 9031088 9.03  
## 17 Austria 8199783 8.20  
## 18 Switzerland 7554661 7.55  
## 19 Bulgaria 7322858 7.32  
## 20 Denmark 5468120 5.47  
## 21 Slovak Republic 5447502 5.45  
## 22 Finland 5238460 5.24  
## 23 Norway 4627926 4.63  
## 24 Bosnia and Herzegovina 4552198 4.55  
## 25 Croatia 4493312 4.49  
## 26 Ireland 4109086 4.11  
## 27 Albania 3600523 3.60  
## 28 Slovenia 2009245 2.01  
## 29 Montenegro 684736 0.68  
## 30 Iceland 301931 0.30

**Task 5:** Now write the code below to find out the top five most economically productive countries (measured by GDP per capita) in Africa in 2002.

gapminder %>%  
 filter(continent == "Africa" & year == 2002) %>%  
 select(country, pop, gdpPercap) %>%  
 mutate(gdp\_bill = round(gdpPercap\*pop / 1000000000, 2)) %>%  
 arrange(desc(gdpPercap))

## country pop gdpPercap gdp\_bill  
## 1 Gabon 1299304 12521.7139 16.27  
## 2 Botswana 1630347 11003.6051 17.94  
## 3 Libya 5368585 9534.6775 51.19  
## 4 Mauritius 1200206 9021.8159 10.83  
## 5 South Africa 44433622 7710.9464 342.63  
## 6 Equatorial Guinea 495627 7703.4959 3.82  
## 7 Reunion 743981 6316.1652 4.70  
## 8 Tunisia 9770575 5722.8957 55.92  
## 9 Algeria 31287142 5288.0404 165.45  
## 10 Egypt 73312559 4754.6044 348.57  
## 11 Swaziland 1130269 4128.1169 4.67  
## 12 Namibia 1972153 4072.3248 8.03  
## 13 Congo, Rep. 3328795 3484.0620 11.60  
## 14 Morocco 31167783 3258.4956 101.56  
## 15 Angola 10866106 2773.2873 30.13  
## 16 Sudan 37090298 1993.3983 73.94  
## 17 Cameroon 15929988 1934.0114 30.81  
## 18 Djibouti 447416 1908.2609 0.85  
## 19 Cote d'Ivoire 16252726 1648.8008 26.80  
## 20 Nigeria 119901274 1615.2864 193.67  
## 21 Mauritania 2828858 1579.0195 4.47  
## 22 Senegal 10870037 1519.6353 16.52  
## 23 Benin 7026113 1372.8779 9.65  
## 24 Sao Tome and Principe 170372 1353.0924 0.23  
## 25 Kenya 31386842 1287.5147 40.41  
## 26 Lesotho 2046772 1275.1846 2.61  
## 27 Chad 8835739 1156.1819 10.22  
## 28 Ghana 20550751 1111.9846 22.85  
## 29 Comoros 614382 1075.8116 0.66  
## 30 Zambia 10595811 1071.6139 11.35  
## 31 Burkina Faso 12251209 1037.6452 12.71  
## 32 Mali 10580176 951.4098 10.07  
## 33 Guinea 8807818 945.5836 8.33  
## 34 Uganda 24739869 927.7210 22.95  
## 35 Tanzania 34593779 899.0742 31.10  
## 36 Madagascar 16473477 894.6371 14.74  
## 37 Togo 4977378 886.2206 4.41  
## 38 Somalia 7753310 882.0818 6.84  
## 39 Rwanda 7852401 785.6538 6.17  
## 40 Eritrea 4414865 765.3500 3.38  
## 41 Central African Republic 4048013 738.6906 2.99  
## 42 Sierra Leone 5359092 699.4897 3.75  
## 43 Zimbabwe 11926563 672.0386 8.02  
## 44 Malawi 11824495 665.4231 7.87  
## 45 Gambia 1457766 660.5856 0.96  
## 46 Mozambique 18473780 633.6179 11.71  
## 47 Niger 11140655 601.0745 6.70  
## 48 Guinea-Bissau 1332459 575.7047 0.77  
## 49 Liberia 2814651 531.4824 1.50  
## 50 Ethiopia 67946797 530.0535 36.02  
## 51 Burundi 7021078 446.4035 3.13  
## 52 Congo, Dem. Rep. 55379852 241.1659 13.36

## Filtering Rows Based on Multiple Values of a Variable

One way to filter more than one year at a time, or multiple countries, is to use the %in% operator. Suppose we want to extract rows for Ireland and New Zealand, in both 2002 and 2007. In , we can create a vector of these countries using c("Ireland","New Zealand") and the two years c(2002, 2007).

The following code extracts the rows for these two countries for those two years. Note: the code deliberately uses single quotes to demonstrate that a **character string** can use double “” or single ’’ quotation marks.

library(tidyverse)  
  
gapminder %>%  
 filter(country %in% c('Ireland', 'New Zealand') & year %in% c(2002, 2007))

## country continent year lifeExp pop gdpPercap  
## 1 Ireland Europe 2002 77.783 3879155 34077.05  
## 2 Ireland Europe 2007 78.885 4109086 40676.00  
## 3 New Zealand Oceania 2002 79.110 3908037 23189.80  
## 4 New Zealand Oceania 2007 80.204 4115771 25185.01

**Task 6:** Now write the code to extract rows corresponding to the Europe and Oceania from 1997 and 2007.

gapminder %>%  
 filter(continent %in% c('Europe', 'Oceania') & year >= 1997 & year <= 2007)

## country continent year lifeExp pop gdpPercap  
## 1 Albania Europe 1997 72.950 3428038 3193.055  
## 2 Albania Europe 2002 75.651 3508512 4604.212  
## 3 Albania Europe 2007 76.423 3600523 5937.030  
## 4 Australia Oceania 1997 78.830 18565243 26997.937  
## 5 Australia Oceania 2002 80.370 19546792 30687.755  
## 6 Australia Oceania 2007 81.235 20434176 34435.367  
## 7 Austria Europe 1997 77.510 8069876 29095.921  
## 8 Austria Europe 2002 78.980 8148312 32417.608  
## 9 Austria Europe 2007 79.829 8199783 36126.493  
## 10 Belgium Europe 1997 77.530 10199787 27561.197  
## 11 Belgium Europe 2002 78.320 10311970 30485.884  
## 12 Belgium Europe 2007 79.441 10392226 33692.605  
## 13 Bosnia and Herzegovina Europe 1997 73.244 3607000 4766.356  
## 14 Bosnia and Herzegovina Europe 2002 74.090 4165416 6018.975  
## 15 Bosnia and Herzegovina Europe 2007 74.852 4552198 7446.299  
## 16 Bulgaria Europe 1997 70.320 8066057 5970.389  
## 17 Bulgaria Europe 2002 72.140 7661799 7696.778  
## 18 Bulgaria Europe 2007 73.005 7322858 10680.793  
## 19 Croatia Europe 1997 73.680 4444595 9875.605  
## 20 Croatia Europe 2002 74.876 4481020 11628.389  
## 21 Croatia Europe 2007 75.748 4493312 14619.223  
## 22 Czech Republic Europe 1997 74.010 10300707 16048.514  
## 23 Czech Republic Europe 2002 75.510 10256295 17596.210  
## 24 Czech Republic Europe 2007 76.486 10228744 22833.309  
## 25 Denmark Europe 1997 76.110 5283663 29804.346  
## 26 Denmark Europe 2002 77.180 5374693 32166.500  
## 27 Denmark Europe 2007 78.332 5468120 35278.419  
## 28 Finland Europe 1997 77.130 5134406 23723.950  
## 29 Finland Europe 2002 78.370 5193039 28204.591  
## 30 Finland Europe 2007 79.313 5238460 33207.084  
## 31 France Europe 1997 78.640 58623428 25889.785  
## 32 France Europe 2002 79.590 59925035 28926.032  
## 33 France Europe 2007 80.657 61083916 30470.017  
## 34 Germany Europe 1997 77.340 82011073 27788.884  
## 35 Germany Europe 2002 78.670 82350671 30035.802  
## 36 Germany Europe 2007 79.406 82400996 32170.374  
## 37 Greece Europe 1997 77.869 10502372 18747.698  
## 38 Greece Europe 2002 78.256 10603863 22514.255  
## 39 Greece Europe 2007 79.483 10706290 27538.412  
## 40 Hungary Europe 1997 71.040 10244684 11712.777  
## 41 Hungary Europe 2002 72.590 10083313 14843.936  
## 42 Hungary Europe 2007 73.338 9956108 18008.944  
## 43 Iceland Europe 1997 78.950 271192 28061.100  
## 44 Iceland Europe 2002 80.500 288030 31163.202  
## 45 Iceland Europe 2007 81.757 301931 36180.789  
## 46 Ireland Europe 1997 76.122 3667233 24521.947  
## 47 Ireland Europe 2002 77.783 3879155 34077.049  
## 48 Ireland Europe 2007 78.885 4109086 40675.996  
## 49 Italy Europe 1997 78.820 57479469 24675.024  
## 50 Italy Europe 2002 80.240 57926999 27968.098  
## 51 Italy Europe 2007 80.546 58147733 28569.720  
## 52 Montenegro Europe 1997 75.445 692651 6465.613  
## 53 Montenegro Europe 2002 73.981 720230 6557.194  
## 54 Montenegro Europe 2007 74.543 684736 9253.896  
## 55 Netherlands Europe 1997 78.030 15604464 30246.131  
## 56 Netherlands Europe 2002 78.530 16122830 33724.758  
## 57 Netherlands Europe 2007 79.762 16570613 36797.933  
## 58 New Zealand Oceania 1997 77.550 3676187 21050.414  
## 59 New Zealand Oceania 2002 79.110 3908037 23189.801  
## 60 New Zealand Oceania 2007 80.204 4115771 25185.009  
## 61 Norway Europe 1997 78.320 4405672 41283.164  
## 62 Norway Europe 2002 79.050 4535591 44683.975  
## 63 Norway Europe 2007 80.196 4627926 49357.190  
## 64 Poland Europe 1997 72.750 38654957 10159.584  
## 65 Poland Europe 2002 74.670 38625976 12002.239  
## 66 Poland Europe 2007 75.563 38518241 15389.925  
## 67 Portugal Europe 1997 75.970 10156415 17641.032  
## 68 Portugal Europe 2002 77.290 10433867 19970.908  
## 69 Portugal Europe 2007 78.098 10642836 20509.648  
## 70 Romania Europe 1997 69.720 22562458 7346.548  
## 71 Romania Europe 2002 71.322 22404337 7885.360  
## 72 Romania Europe 2007 72.476 22276056 10808.476  
## 73 Serbia Europe 1997 72.232 10336594 7914.320  
## 74 Serbia Europe 2002 73.213 10111559 7236.075  
## 75 Serbia Europe 2007 74.002 10150265 9786.535  
## 76 Slovak Republic Europe 1997 72.710 5383010 12126.231  
## 77 Slovak Republic Europe 2002 73.800 5410052 13638.778  
## 78 Slovak Republic Europe 2007 74.663 5447502 18678.314  
## 79 Slovenia Europe 1997 75.130 2011612 17161.107  
## 80 Slovenia Europe 2002 76.660 2011497 20660.019  
## 81 Slovenia Europe 2007 77.926 2009245 25768.258  
## 82 Spain Europe 1997 78.770 39855442 20445.299  
## 83 Spain Europe 2002 79.780 40152517 24835.472  
## 84 Spain Europe 2007 80.941 40448191 28821.064  
## 85 Sweden Europe 1997 79.390 8897619 25266.595  
## 86 Sweden Europe 2002 80.040 8954175 29341.631  
## 87 Sweden Europe 2007 80.884 9031088 33859.748  
## 88 Switzerland Europe 1997 79.370 7193761 32135.323  
## 89 Switzerland Europe 2002 80.620 7361757 34480.958  
## 90 Switzerland Europe 2007 81.701 7554661 37506.419  
## 91 Turkey Europe 1997 68.835 63047647 6601.430  
## 92 Turkey Europe 2002 70.845 67308928 6508.086  
## 93 Turkey Europe 2007 71.777 71158647 8458.276  
## 94 United Kingdom Europe 1997 77.218 58808266 26074.531  
## 95 United Kingdom Europe 2002 78.471 59912431 29478.999  
## 96 United Kingdom Europe 2007 79.425 60776238 33203.261

## Revisiting group\_by() function

Now, if we want to calculate the average GDP per capita for each of the continent by year, we could do that using the group\_by() function that you are already familiar with.

The following code groups the dataset by continent and year, and then calculates the average GDP per capita for each continent per year

gapminder %>%  
 group\_by(continent, year) %>%  
 summarise(mean(gdpPercap))

## # A tibble: 60 × 3  
## # Groups: continent [5]  
## continent year `mean(gdpPercap)`  
## <chr> <int> <dbl>  
## 1 Africa 1952 1253.  
## 2 Africa 1957 1385.  
## 3 Africa 1962 1598.  
## 4 Africa 1967 2050.  
## 5 Africa 1972 2340.  
## 6 Africa 1977 2586.  
## 7 Africa 1982 2482.  
## 8 Africa 1987 2283.  
## 9 Africa 1992 2282.  
## 10 Africa 1997 2379.  
## # … with 50 more rows

You can see the resulting dataset has 60 rows because there are 12 year \* 5 continent groups. The summarise(mean(gdpPercap)) calculate the average GDP per capita over all the countries in that continent for that particular year.

If you want to count how many countries belong to a particular group and used this to calculate the average you can generate that number using the counting function n() inside the summarise() function. In statistics, “n” oft refers to as sample size.

From the code below, you can see for each year 52 countries used to calculate the average in Africa. If you scroll through the table then you can see it varies for each continent.

gapminder %>%  
 group\_by(continent, year) %>%  
 summarise(n(), mean(gdpPercap))

## # A tibble: 60 × 4  
## # Groups: continent [5]  
## continent year `n()` `mean(gdpPercap)`  
## <chr> <int> <int> <dbl>  
## 1 Africa 1952 52 1253.  
## 2 Africa 1957 52 1385.  
## 3 Africa 1962 52 1598.  
## 4 Africa 1967 52 2050.  
## 5 Africa 1972 52 2340.  
## 6 Africa 1977 52 2586.  
## 7 Africa 1982 52 2482.  
## 8 Africa 1987 52 2283.  
## 9 Africa 1992 52 2282.  
## 10 Africa 1997 52 2379.  
## # … with 50 more rows

**Task 7:** Write code below to find out how many countries were used to calculate the mean for the Oceania continent over different years.

gapminder %>%  
 group\_by(continent, year) %>%  
 summarise(n(), mean(gdpPercap)) %>%  
 filter(continent %in% c('Oceania'))

## # A tibble: 12 × 4  
## # Groups: continent [1]  
## continent year `n()` `mean(gdpPercap)`  
## <chr> <int> <int> <dbl>  
## 1 Oceania 1952 2 10298.  
## 2 Oceania 1957 2 11599.  
## 3 Oceania 1962 2 12696.  
## 4 Oceania 1967 2 14495.  
## 5 Oceania 1972 2 16417.  
## 6 Oceania 1977 2 17284.  
## 7 Oceania 1982 2 18555.  
## 8 Oceania 1987 2 20448.  
## 9 Oceania 1992 2 20894.  
## 10 Oceania 1997 2 24024.  
## 11 Oceania 2002 2 26939.  
## 12 Oceania 2007 2 29810.

## Creating a Cross-tabulation of Summary Statistics

To see how many countries are there in the dataset for each continent by years. We can generate a cross-table using the table() function as follows.

gapminder %>%  
 select(continent, year) %>%  
 table()

## year  
## continent 1952 1957 1962 1967 1972 1977 1982 1987 1992 1997 2002 2007  
## Africa 52 52 52 52 52 52 52 52 52 52 52 52  
## Americas 25 25 25 25 25 25 25 25 25 25 25 25  
## Asia 33 33 33 33 33 33 33 33 33 33 33 33  
## Europe 30 30 30 30 30 30 30 30 30 30 30 30  
## Oceania 2 2 2 2 2 2 2 2 2 2 2 2

Here, each row refers to the name of the continent, each column refers to the corresponding year, and the value in each cell of the table is the count of the entries. We may want to generate such a table but with the average value of the GDP per capita not the number of countries. How can we do that? To this we need to learn another function pivot\_wider().

Run the following code.

gapminder %>%  
 group\_by(continent, year) %>%  
 summarise(mean(gdpPercap)) %>%  
 pivot\_wider(names\_from = year, values\_from = `mean(gdpPercap)`)

## # A tibble: 5 × 13  
## # Groups: continent [5]  
## contin…¹ `1952` `1957` `1962` `1967` `1972` `1977` `1982` `1987` `1992` `1997`  
## <chr> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 Africa 1253. 1385. 1598. 2050. 2340. 2586. 2482. 2283. 2282. 2379.  
## 2 Americas 4079. 4616. 4902. 5668. 6491. 7352. 7507. 7793. 8045. 8889.  
## 3 Asia 5195. 5788. 5729. 5971. 8187. 7791. 7434. 7608. 8640. 9834.  
## 4 Europe 5661. 6963. 8365. 10144. 12480. 14284. 15618. 17214. 17062. 19077.  
## 5 Oceania 10298. 11599. 12696. 14495. 16417. 17284. 18555. 20448. 20894. 24024.  
## # … with 2 more variables: `2002` <dbl>, `2007` <dbl>, and abbreviated variable  
## # name ¹​continent

Now instead of the count, now we have average GDP per capita for each continent by year. It is very easy to compare the average GDP per capitat across year and continent.

It is slightly easier to code if you name the result from the summary() function as you can then just refer to it by name in pivot\_wider(). Notice that the results are the same, but the code is maybe a little easier to understand.

gapminder %>%  
 group\_by(continent, year) %>%  
 summarise(meanGDP = mean(gdpPercap)) %>%  
 pivot\_wider(names\_from = year, values\_from = meanGDP)

## # A tibble: 5 × 13  
## # Groups: continent [5]  
## contin…¹ `1952` `1957` `1962` `1967` `1972` `1977` `1982` `1987` `1992` `1997`  
## <chr> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 Africa 1253. 1385. 1598. 2050. 2340. 2586. 2482. 2283. 2282. 2379.  
## 2 Americas 4079. 4616. 4902. 5668. 6491. 7352. 7507. 7793. 8045. 8889.  
## 3 Asia 5195. 5788. 5729. 5971. 8187. 7791. 7434. 7608. 8640. 9834.  
## 4 Europe 5661. 6963. 8365. 10144. 12480. 14284. 15618. 17214. 17062. 19077.  
## 5 Oceania 10298. 11599. 12696. 14495. 16417. 17284. 18555. 20448. 20894. 24024.  
## # … with 2 more variables: `2002` <dbl>, `2007` <dbl>, and abbreviated variable  
## # name ¹​continent

The pivot\_wider() function *reshaped* the dataset by taking the column year and making each of its category as separate column. Then it fills the cell by taking values from the meanGDP variable. The part of the name of the function is “wider” because it makes the dataset “wide” by creating more variables than it has before. This type of transformation of dataset is called “reshaping”. If this concept seems a bit advanced, do not worry we will discuss more about reshaping in future labs.

**Task 8:** Create a cross-table of continent and year with median life expectancy as the value for each cell.

gapminder %>%  
 group\_by(continent, year) %>%  
 summarise(medianLifeExp = median(lifeExp)) %>%  
 pivot\_wider(names\_from = year, values\_from = medianLifeExp)

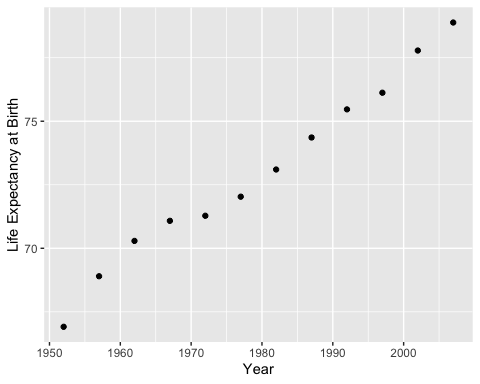
## # A tibble: 5 × 13  
## # Groups: continent [5]  
## contin…¹ `1952` `1957` `1962` `1967` `1972` `1977` `1982` `1987` `1992` `1997`  
## <chr> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 Africa 38.8 40.6 42.6 44.7 47.0 49.3 50.8 51.6 52.4 52.8  
## 2 Americas 54.7 56.1 58.3 60.5 63.4 66.4 67.4 69.5 69.9 72.1  
## 3 Asia 44.9 48.3 49.3 53.7 57.0 60.8 63.7 66.3 68.7 70.3  
## 4 Europe 65.9 67.6 69.5 70.6 70.9 72.3 73.5 74.8 75.5 76.1  
## 5 Oceania 69.3 70.3 71.1 71.3 71.9 72.9 74.3 75.3 76.9 78.2  
## # … with 2 more variables: `2002` <dbl>, `2007` <dbl>, and abbreviated variable  
## # name ¹​continent

## Creating a Scatterplot With geom\_point()

We have created a nice summary table to compare the average GDP per capita among different continents across different years. A graphical summary may be useful for audiences that don’t like tables of numbers. \*\*A picture is worth a thousand words, or numbers!\*

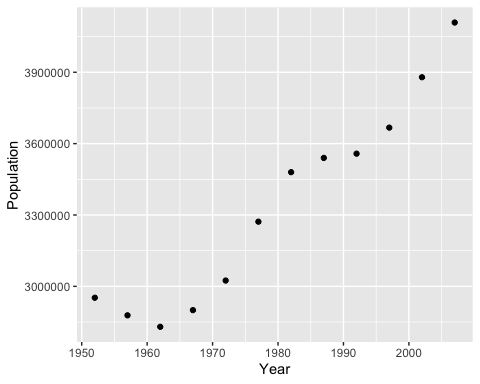
Suppose, we want to see the change of life expectancy over the years for Ireland. First, we can filter the dataset to get the rows related to Ireland and then we can put year variable on the x-axis and lifeExp on the y-axis for the ggplot. Then we can represent each value as a point (geometric shape). In the following code we used the geom\_point() function to create such a plot with “points” as geometric shape. This kind of plot is commonly known as *scatterplot*.

gapminder %>%  
 filter(country == "Ireland") %>%  
 ggplot(aes(x = year, y = lifeExp)) +  
 geom\_point() +  
 labs(x = "Year", y = "Life Expectancy at Birth")



**Task 9:** Create a scatterplot of Irish population against year to see how Irish population is changing.

gapminder %>%  
 filter(country == "Ireland") %>%  
 ggplot(aes(x = year, y = pop)) +  
 geom\_point() +  
 labs(x = "Year", y = "Population")

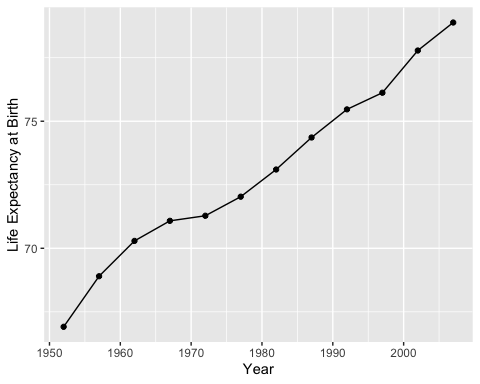


## Layered Graphics with ggplot

If we want to connect each of the dots by a line then we could use the geom\_line() function in the plot above. In the code below, notice that we just added a new geometric shape in the plot and we have two plots (a scatter plot and a line plot) on the same plot! So we added a new *layer* by geom\_line() function on the existing plot.

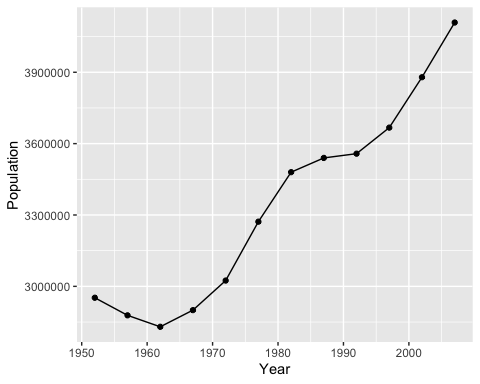
We can add as many layers we want to the plot to make it more informative. This is a very powerful feature of ggplot. It is part of the “grammar of graphics”, hence the \*\*gg\* in ggplot.

gapminder %>%  
 filter(country == "Ireland") %>%  
 ggplot(aes(x = year, y = lifeExp)) +  
 geom\_point() +  
 geom\_line() +  
 labs(x = "Year", y = "Life Expectancy at Birth")



**Task 10:** Create a layered graphics (with both a scatterplot and line plot) of Irish population against year.

gapminder %>%  
 filter(country == "Ireland") %>%  
 ggplot(aes(x = year, y = pop)) +  
 geom\_point() +  
 geom\_line() +  
 labs(x = "Year", y = "Population")

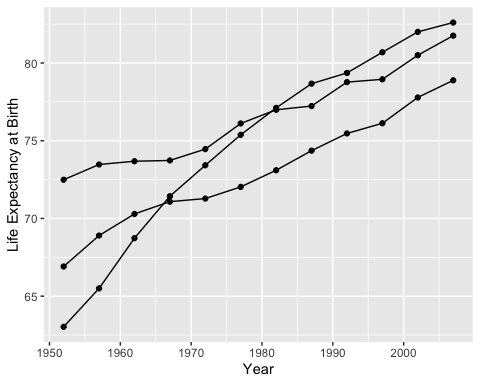


## Using group and colour aesthetics

Now, why only Ireland? You might want to add more countries to the plot to compare between countries. There is a very nice way we could do that in ggplot using the group aesthetic.

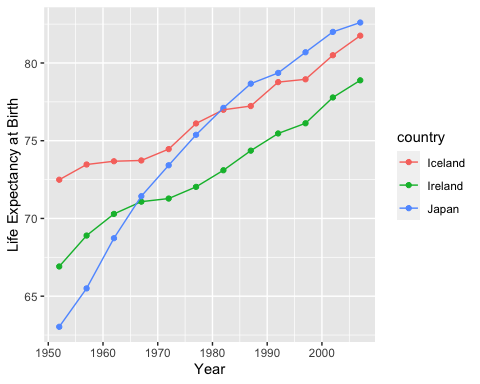
In the following code, we keep three countries and tell ggplot to create different lines for the different countries by specifying group = country inside the aesthetic aes() function which creates the environment for the plot.

gapminder %>%  
 filter(country %in% c("Ireland", "Iceland", "Japan" )) %>%  
 ggplot(aes(x = year, y = lifeExp, group = country)) +  
 geom\_point() +  
 geom\_line() +  
 labs(x = "Year", y = "Life Expectancy at Birth")



The problem with the above plot is that we do not know what line represent what countries. To solve this, we can use colour aesthetic of ggplot.

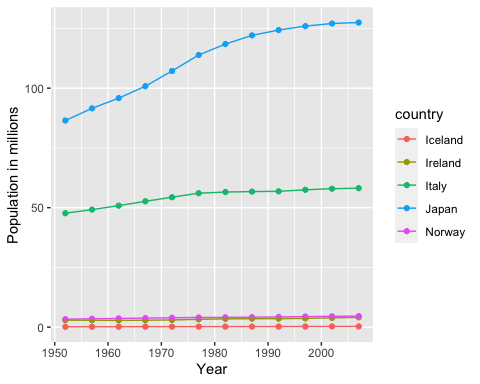
gapminder %>%  
 filter(country %in% c("Ireland", "Iceland", "Japan" )) %>%  
 ggplot(aes(x = year, y = lifeExp, group = country, colour = country)) +  
 geom\_point() +  
 geom\_line() +  
 labs(x = "Year", y = "Life Expectancy at Birth")



Now we have nice label for each country. This is called *legend* in plotting terminology.

**Task 11:** In the following R chunk, change the previous code to add two more countries: Norway and Italy. This time instead of life expectancy, plot total population in millions. Note: you have to create a new variable to convert the population in millions and you also need to change the level appropriately.

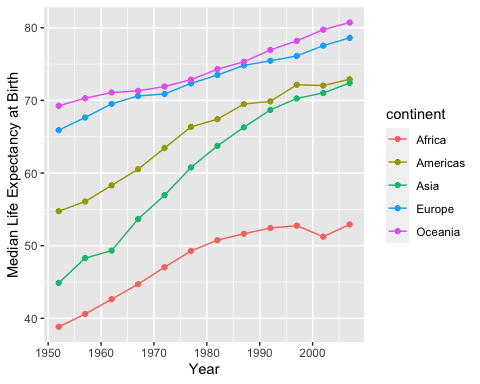
gapminder %>%  
 filter(country %in% c("Ireland", "Iceland", "Japan", "Norway", "Italy" )) %>%  
 mutate(pop\_mills = round(pop/1000000, 2)) %>%  
 ggplot(aes(x = year, y = pop\_mills, group = country, colour = country)) +  
 geom\_point() +  
 geom\_line() +  
 labs(x = "Year", y = "Population in millions")



## Plotting summary statistics

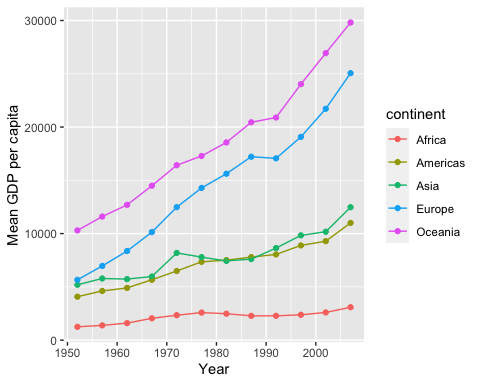
Now, if we wish to compare lifeExp across different continent, the line plot above might not be helpful because there are many countries belong to the same continent. So we first need to summarise them using a summary statistics (median() for example) and then can plot that for each continent over the years.

gapminder %>%  
 group\_by(continent, year) %>%  
 summarise(medianlifeExp = median(lifeExp)) %>%  
 ggplot(aes(x = year, y = medianlifeExp, colour = continent)) +  
 geom\_point() +  
 geom\_line() +  
 labs(x = "Year", y = "Median Life Expectancy at Birth")



**Task 12:** In the following code chunk, create a plot to compare mean GDP per capita across different continents over the years. Label the plot appropriately.

gapminder %>%  
 group\_by(continent, year) %>%  
 summarise(meanGDP = mean(gdpPercap)) %>%  
 ggplot(aes(x = year, y = meanGDP, colour = continent)) +  
 geom\_point() +  
 geom\_line() +  
 labs(x = "Year", y = "Mean GDP per capita")



## Object manipulation in R

Whenever you use <- of = operator in you are creating an object on the right and “assigning” it the name on the left of the operator. All the objects you create in an session are available in R’s memory for your to use. You can use the objects() or ls() functions to see what objects are available in the memory.

objects()

## [1] "gapminder"

ls()

## [1] "gapminder"

The only object you should have stored in memory from this lab is the gapminder dataset, we imported at the beginning. No other objects have been created so far. Now, let’s create some more objects.

x = c(1, 2, 3, 4, 5)  
y = c("A", "B", "C")  
  
ireland = gapminder %>% filter(country == "Ireland")

and check what objects are available now.

ls()

## [1] "gapminder" "ireland" "x" "y"

If you want to delete an object you can use the rm() function to do so. Lets delete the x object.

rm("x")  
ls()

## [1] "gapminder" "ireland" "y"

You can also delete all the objects in the R memory using the following code.

rm(list = ls())

After this complete deletion there will be nothing left, hence why the ls() function returns character(0) which mean a character vector with 0 entries, i.e. an empty list!

ls()

## character(0)