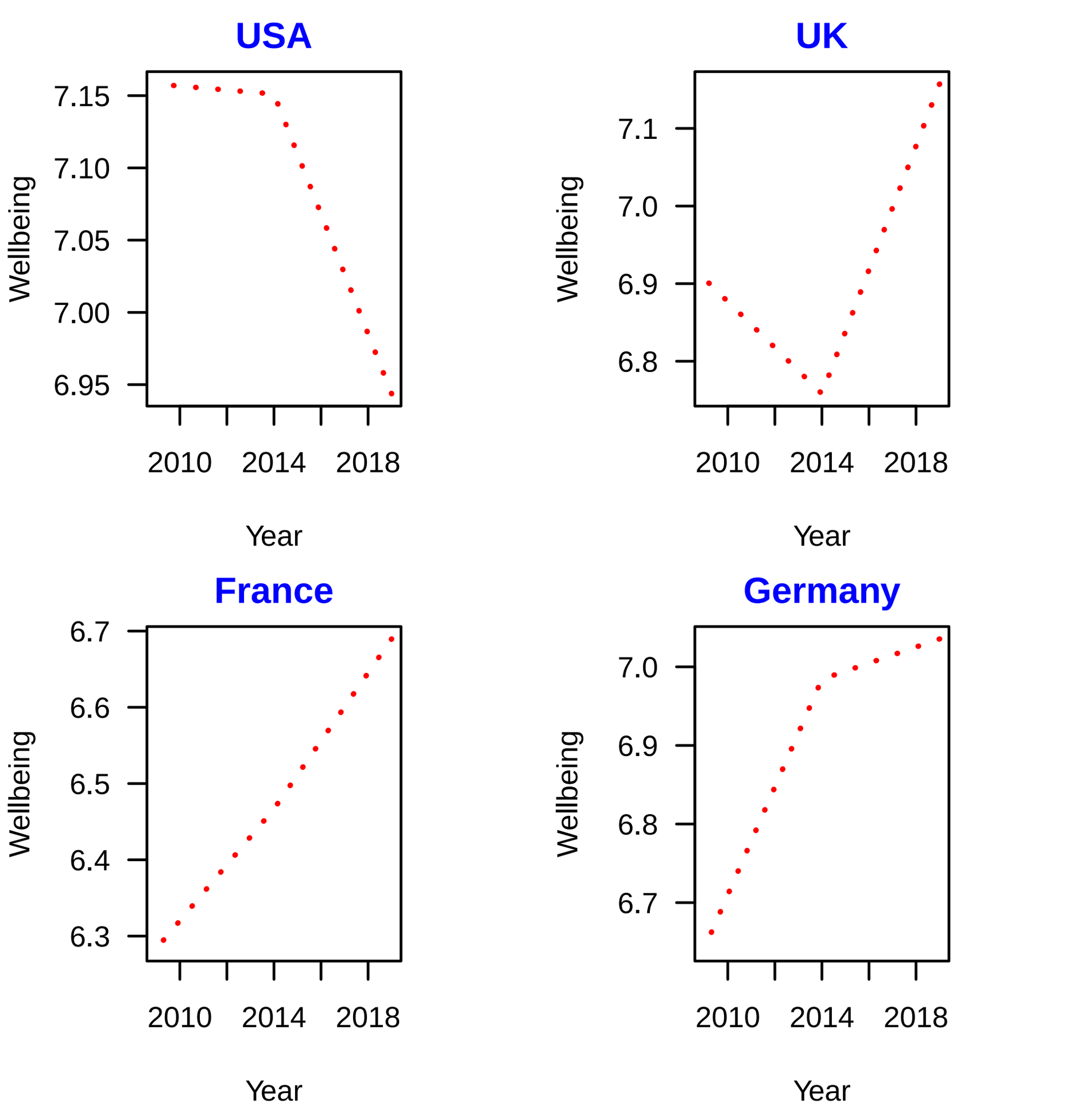
Results of Data Analysis

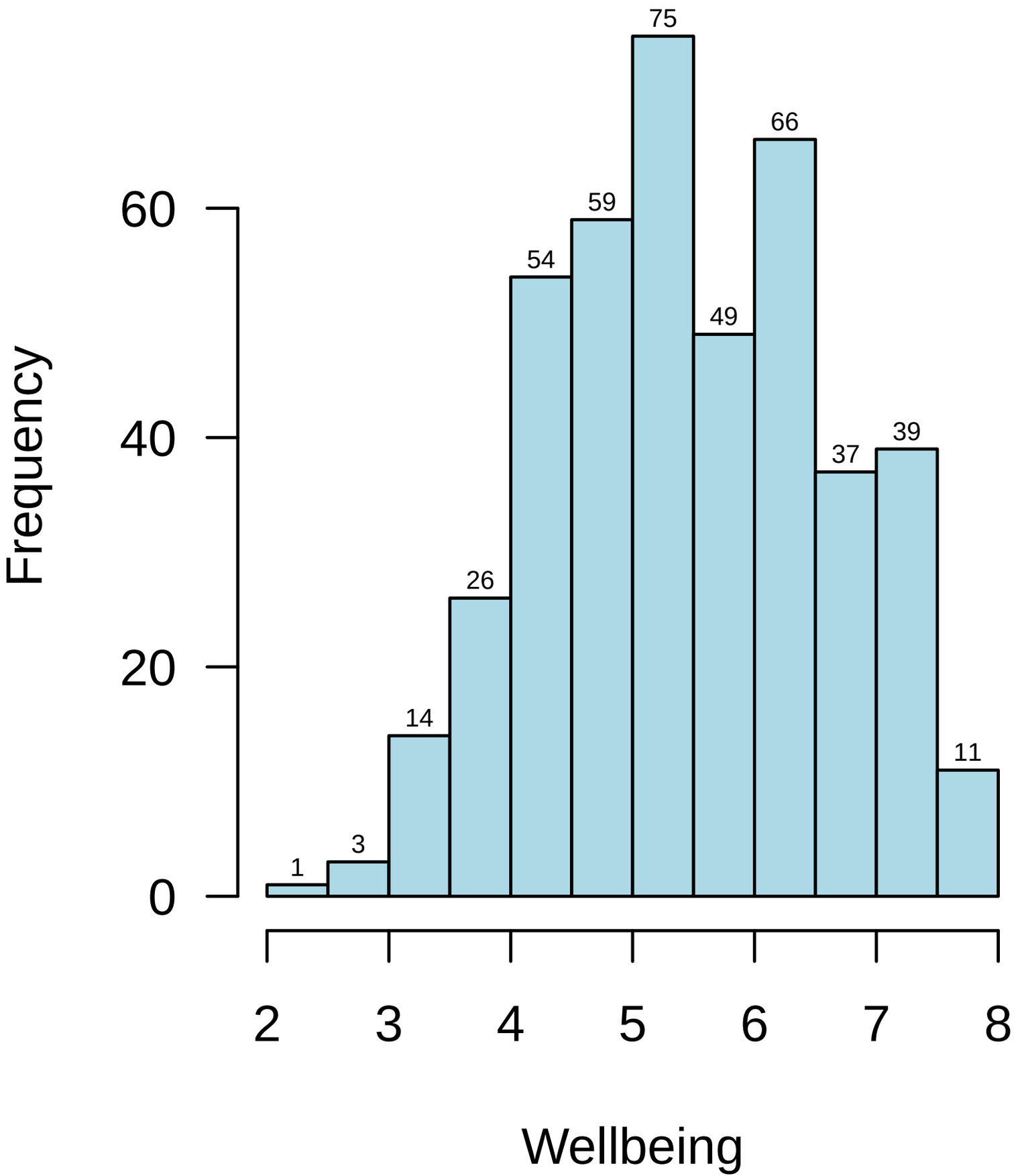
```
> names(HP_data_set)   #Review dataframe names
 [1] "HPI_rank"        "Year"            "Country"         "Continent"       "Pop"             "Life_Expectancy"
 [7] "Wellbeing"       "Ecolog_Footprint" "HPI"            "Biocapacity"     "GDP_per_capita"
> Str(HP_data_set)  #Review classes
Error in Str(HP_data_set) : could not find function "Str"
> str(HP_data_set)  #Review classes
tibble [456 x 11] (S3: tbl_df/tbl/data.frame)
 $ HPI_rank       : num [1:456] 1 2 3 4 5 6 7 8 9 10 ...
 $ Year           : num [1:456] 2019 2019 2019 2019 2019 ...
 $ Country        : chr [1:456] "Costa Rica" "Vanuatu" "Colombia" "Switzerland" ...
 $ Continent      : num [1:456] 1 8 1 3 1 1 1 1 1 1 ...
 $ Pop            : num [1:456] 5048 300 50339 8591 17374 ...
 $ Life_Expectancy : num [1:456] 80.3 70.5 77.3 83.8 77 78.5 74.5 74.3 75.3 77.9 ...
 $ Wellbeing      : num [1:456] 7 6.96 6.35 7.69 5.81 ...
 $ Ecolog_Footprint: num [1:456] 2.65 1.62 1.9 4.14 1.51 ...
 $ HPI            : num [1:456] 62.1 60.4 60.2 60.1 58.8 ...
 $ Biocapacity    : num [1:456] 1.56 1.56 1.56 1.56 1.56 1.56 1.56 1.56 1.56 1.56 ...
 $ GDP_per_capita  : chr [1:456] "20296.82150273478" "3153.0151677584245" "14624.971296534655"
"68390.712985453865" ...
> countna <- function(x){sum(is.na(x))} #Define count the number of nas function
> sapply(HP_data_set, countna) #Count number of nas within dataframe
       HPI_rank            Year         Country       Continent             Pop  Life_Expectancy       Wellbeing
             32               0               0               0               0               0              22
Ecolog_Footprint             HPI      Biocapacity   GDP_per_capita
             11              32               0             154
> summary(HP_data_set)  #Summarize dataframe components
    HPI_rank          Year        Country           Continent          Pop            Life_Expectancy   Wellbeing
 Min.   :  1.00   Min.   :2009   Length:456         Min.   :1.000   Min.   :    230.2   Min.   :44.10   Min.   :2.375
 1st Qu.: 36.00   1st Qu.:2009   Class :character   1st Qu.:3.000   1st Qu.:   4709.4   1st Qu.:66.10   1st Qu.:4.574
 Median : 71.00   Median :2014   Mode  :character   Median :5.000   Median :  10646.6   Median :73.75   Median :5.430
 Mean   : 71.43   Mean   :2014                      Mean   :4.717   Mean   :  47040.2   Mean   :71.56   Mean   :5.475
 3rd Qu.:106.25   3rd Qu.:2019                      3rd Qu.:7.000   3rd Qu.:  33885.9   3rd Qu.:77.83   3rd Qu.:6.332
 Max.   :152.00   Max.   :2019                      Max.   :8.000   Max.   :1433783.7   Max.   :84.90   Max.   :7.780
 NA's   :32                                                                            NA's   :22
 Ecolog_Footprint       HPI        Biocapacity    GDP_per_capita
 Min.   : 0.5157   Min.   :23.94   Min.   :1.560   Length:456
 1st Qu.: 1.4201   1st Qu.:38.05   1st Qu.:1.560   Class :character
 Median : 2.4460   Median :43.84   Median :1.630   Mode  :character
 Mean   : 3.2805   Mean   :43.66   Mean   :1.627                 2
 3rd Qu.: 4.5935   3rd Qu.:49.99   3rd Qu.:1.690
 Max.   :15.4588   Max.   :69.74   Max.   :1.690
```

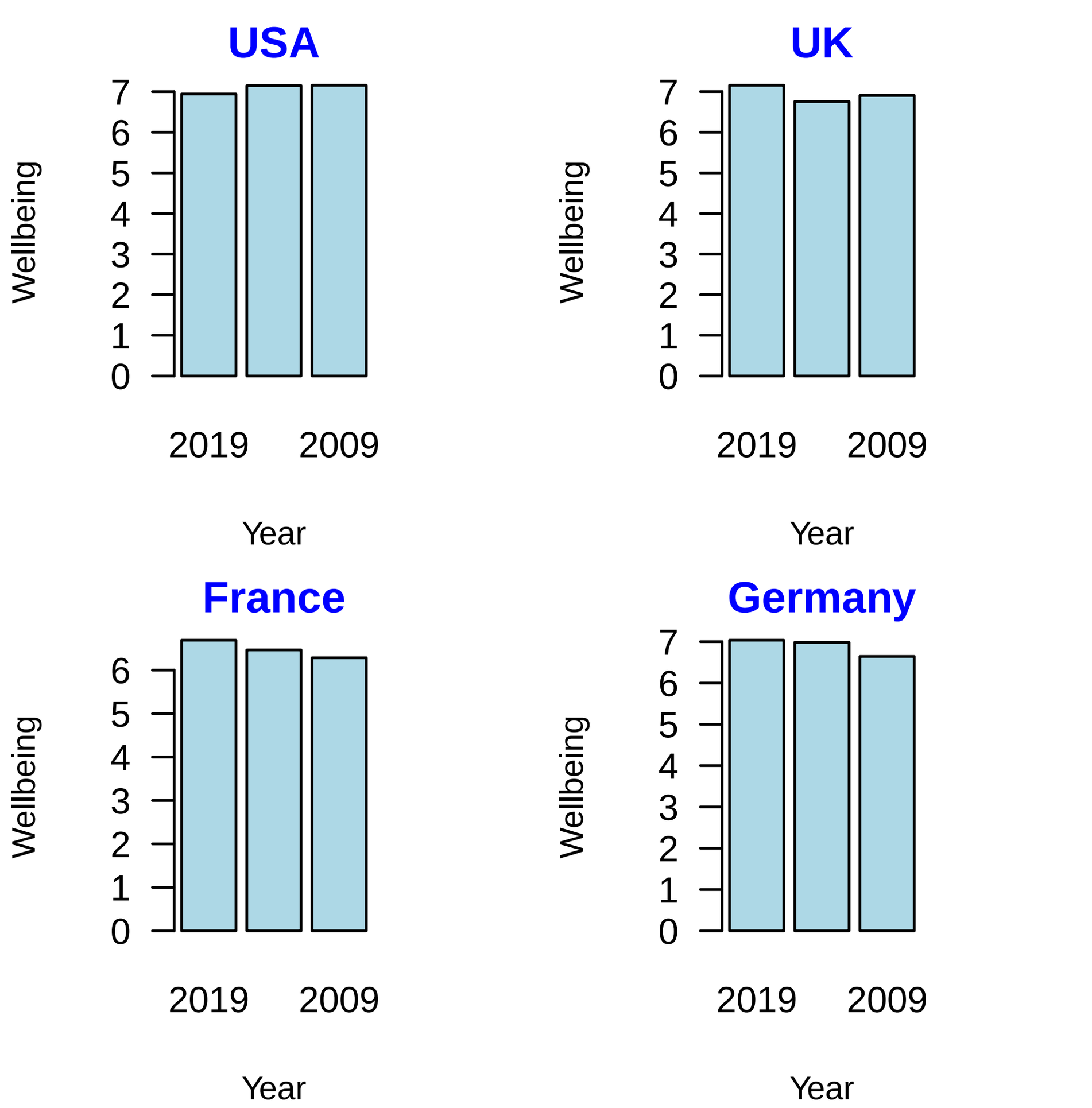
Results of Graphics

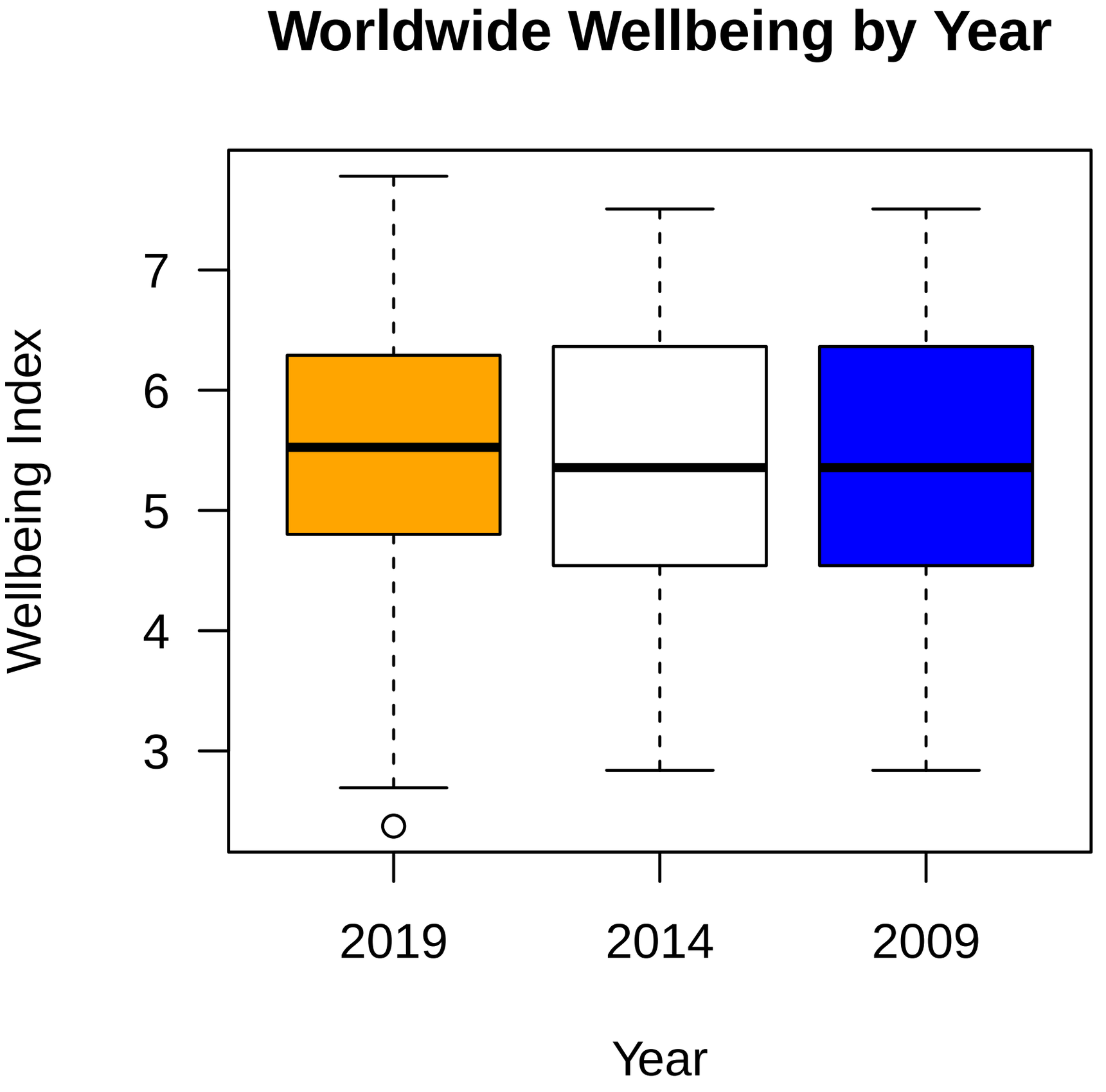
Code


USA
Wellbeing
7.15
7.10
7.05
7.00
6.95
2010
2014
2018
Year
UK
Wellbeing
7.1
7.0
6.9
6.8
2010
2014
2018
Year
France
Wellbeing
6.7
6.6
6.5
6.4
6.3
2010
2014
2018
Year
Germany
Wellbeing
7.0
6.9
6.8
6.7
2010
2014
2018
Year

All Country Wellbeing (2009, 2014, 2019)




USA
Wellbeing
0
1
2
3
4
5
6
7
2019
2009
Year
UK
Wellbeing
0
1
2
3
4
5
6
7
2019
2009
Year
France
Wellbeing
0
1
2
3
4
5
6
2019
2009
Year
Germany
Wellbeing
0
1
2
3
4
5
6
7
2019
2009
Year


Worldwide Wellbeing by Year
Wellbeing Index
7
6
5
4
3
2019
2014
2009
Year