Happiness Score

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Install required packages

```
## -- Attaching packages ------- tidyverse 1.3.1 --
## v ggplot2 3.3.5  v purrr  0.3.4
## v tibble 3.1.6  v dplyr  1.0.8
## v tidyr  1.2.0  v stringr 1.4.0
## v readr  2.1.2  v forcats 0.5.1

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

Read the files

```
Hscore_2015 <- read_csv("data/2015.csv")</pre>
## Rows: 158 Columns: 12
## -- Column specification -------
## Delimiter: ","
## chr (2): Country, Region
## dbl (10): Happiness Rank, Happiness Score, Standard Error, Economy (GDP per ...
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
Hscore_2016 <- read_csv("data/2016.csv")</pre>
## Rows: 157 Columns: 13
## -- Column specification -------
## Delimiter: ","
## chr (2): Country, Region
## dbl (11): Happiness Rank, Happiness Score, Lower Confidence Interval, Upper ...
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
```

```
## Rows: 155 Columns: 12
## -- Column specification -----
## Delimiter: ","
## chr (1): Country
## dbl (11): Happiness.Rank, Happiness.Score, Whisker.high, Whisker.low, Econom...
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
Including columne names
colnames(Hscore_2015)
## [1] "Country"
                                       "Region"
## [3] "Happiness Rank"
                                       "Happiness Score"
## [5] "Standard Error"
                                       "Economy (GDP per Capita)"
## [7] "Family"
                                       "Health (Life Expectancy)"
## [9] "Freedom"
                                       "Trust (Government Corruption)"
## [11] "Generosity"
                                       "Dystopia Residual"
colnames (Hscore_2016)
## [1] "Country"
                                       "Region"
## [3] "Happiness Rank"
                                       "Happiness Score"
   [5] "Lower Confidence Interval"
                                       "Upper Confidence Interval"
## [7] "Economy (GDP per Capita)"
                                       "Family"
## [9] "Health (Life Expectancy)"
                                       "Freedom"
## [11] "Trust (Government Corruption)" "Generosity"
## [13] "Dystopia Residual"
colnames(Hscore_2017)
   [1] "Country"
                                       "Happiness.Rank"
##
  [3] "Happiness.Score"
                                       "Whisker.high"
## [5] "Whisker.low"
                                       "Economy..GDP.per.Capita."
## [7] "Family"
                                       "Health..Life.Expectancy."
## [9] "Freedom"
                                       "Generosity"
## [11] "Trust..Government.Corruption." "Dystopia.Residual"
```

Rename the columnes to make them consistent

Hscore_2017 <- read_csv("data/2017.csv")</pre>

```
Hscore_2015 <- rename(Hscore_2015, "Happiness_Score" = "Happiness Score", "Happiness_Rank" = "Happiness Rank" = "Happiness Rank
```

Lets check out the changes

```
str(Hscore_2015)
## spec_tbl_df [158 x 12] (S3: spec_tbl_df/tbl_df/tbl/data.frame)
                     : chr [1:158] "Switzerland" "Iceland" "Denmark" "Norway" ...
## $ Country
                      : chr [1:158] "Western Europe" "Western Europe" "Western Europe" "Western Europe
## $ Region
## $ Happiness Rank : num [1:158] 1 2 3 4 5 6 7 8 9 10 ...
## $ Happiness_Score : num [1:158] 7.59 7.56 7.53 7.52 7.43 ...
## $ Standard Error : num [1:158] 0.0341 0.0488 0.0333 0.0388 0.0355 ...
## $ Economy
                   : num [1:158] 1.4 1.3 1.33 1.46 1.33 ...
## $ Family
                      : num [1:158] 1.35 1.4 1.36 1.33 1.32 ...
## $ Health
                     : num [1:158] 0.941 0.948 0.875 0.885 0.906 ...
## $ Freedom
                     : num [1:158] 0.666 0.629 0.649 0.67 0.633 ...
## $ Trust
                      : num [1:158] 0.42 0.141 0.484 0.365 0.33 ...
## $ Generosity : num [1:158] 0.297 0.436 0.341 0.347 0.458 ...
## $ Dystopia_Residual: num [1:158] 2.52 2.7 2.49 2.47 2.45 ...
   - attr(*, "spec")=
##
    .. cols(
##
         Country = col_character(),
##
         Region = col_character(),
         'Happiness Rank' = col_double(),
##
         'Happiness Score' = col_double(),
##
         'Standard Error' = col_double(),
##
    . .
##
         'Economy (GDP per Capita)' = col_double(),
       Family = col_double(),
##
         'Health (Life Expectancy)' = col_double(),
##
         Freedom = col_double(),
    . .
         'Trust (Government Corruption)' = col_double(),
##
##
         Generosity = col_double(),
##
         'Dystopia Residual' = col_double()
    . .
##
    ..)
   - attr(*, "problems")=<externalptr>
str(Hscore_2016)
## spec_tbl_df [157 x 13] (S3: spec_tbl_df/tbl_df/tbl/data.frame)
## $ Country
                              : chr [1:157] "Denmark" "Switzerland" "Iceland" "Norway" ...
## $ Region
                              : chr [1:157] "Western Europe" "Western Europe" "Western Europe" "Western
## $ Happiness_Rank
                              : num [1:157] 1 2 3 4 5 6 7 8 9 10 ...
## $ Happiness_Score
                              : num [1:157] 7.53 7.51 7.5 7.5 7.41 ...
## $ Lower Confidence Interval: num [1:157] 7.46 7.43 7.33 7.42 7.35 ...
## $ Upper Confidence Interval: num [1:157] 7.59 7.59 7.67 7.58 7.47 ...
## $ Economy
                              : num [1:157] 1.44 1.53 1.43 1.58 1.41 ...
## $ Family
                              : num [1:157] 1.16 1.15 1.18 1.13 1.13 ...
## $ Health
                              : num [1:157] 0.795 0.863 0.867 0.796 0.811 ...
## $ Freedom
                              : num [1:157] 0.579 0.586 0.566 0.596 0.571 ...
## $ Trust
                              : num [1:157] 0.445 0.412 0.15 0.358 0.41 ...
## $ Generosity
                              : num [1:157] 0.362 0.281 0.477 0.379 0.255 ...
## $ Dystopia_Residual
                            : num [1:157] 2.74 2.69 2.83 2.66 2.83 ...
## - attr(*, "spec")=
##
    .. cols(
```

```
##
          Country = col_character(),
##
          Region = col_character(),
##
          'Happiness Rank' = col double(),
          'Happiness Score' = col_double(),
##
##
          'Lower Confidence Interval' = col_double(),
##
          'Upper Confidence Interval' = col double(),
         'Economy (GDP per Capita)' = col_double(),
         Family = col_double(),
##
##
          'Health (Life Expectancy)' = col_double(),
     . .
##
          Freedom = col_double(),
##
          'Trust (Government Corruption)' = col_double(),
##
          Generosity = col_double(),
##
          'Dystopia Residual' = col_double()
##
   - attr(*, "problems")=<externalptr>
str(Hscore 2017)
## spec_tbl_df [155 x 12] (S3: spec_tbl_df/tbl_df/tbl/data.frame)
## $ Country
                               : chr [1:155] "Norway" "Denmark" "Iceland" "Switzerland" ...
                               : num [1:155] 1 2 3 4 5 6 7 8 9 10 ...
## $ Happiness_Rank
## $ Happiness_Score
                               : num [1:155] 7.54 7.52 7.5 7.49 7.47 ...
## $ Upper Confidence Interval: num [1:155] 7.59 7.58 7.62 7.56 7.53 ...
## $ Lower Confidence Interval: num [1:155] 7.48 7.46 7.39 7.43 7.41 ...
## $ Economy
                               : num [1:155] 1.62 1.48 1.48 1.56 1.44 ...
## $ Family
                               : num [1:155] 1.53 1.55 1.61 1.52 1.54 ...
## $ Health
                               : num [1:155] 0.797 0.793 0.834 0.858 0.809 ...
## $ Freedom
                               : num [1:155] 0.635 0.626 0.627 0.62 0.618 ...
## $ Generosity
                               : num [1:155] 0.362 0.355 0.476 0.291 0.245 ...
## $ Trust
                               : num [1:155] 0.316 0.401 0.154 0.367 0.383 ...
                               : num [1:155] 2.28 2.31 2.32 2.28 2.43 ...
   $ Dystopia_Residual
##
   - attr(*, "spec")=
##
    .. cols(
##
          Country = col_character(),
##
          Happiness.Rank = col_double(),
##
         Happiness.Score = col_double(),
##
     . .
         Whisker.high = col double(),
##
         Whisker.low = col_double(),
##
         Economy..GDP.per.Capita. = col_double(),
     . .
##
         Family = col_double(),
         Health..Life.Expectancy. = col_double(),
##
     . .
##
         Freedom = col_double(),
##
          Generosity = col_double(),
##
          Trust..Government.Corruption. = col_double(),
##
          Dystopia.Residual = col_double()
     . .
##
   - attr(*, "problems")=<externalptr>
```

number of observations eliminating duplicates

```
n_distinct(Hscore_2015)

## [1] 158

n_distinct(Hscore_2016)

## [1] 157

n_distinct(Hscore_2017)

## [1] 155
```

number of rows in years

```
nrow(Hscore_2015)

## [1] 158

nrow(Hscore_2016)

## [1] 157

nrow(Hscore_2017)

## [1] 155
```

Bind the data for further calculations

```
Total <- bind_rows(Hscore_2015, Hscore_2016, Hscore_2017)
```

Inspect the new table that has been created

```
nrow(Total) #How many rows are in data frame?
## [1] 470
dim(Total)
           #Dimensions of the data frame?
## [1] 470 14
head(Total) #See the first 6 rows of data frame. Also tail(all_trips)
## # A tibble: 6 x 14
    Country Region Happiness_Rank Happiness_Score 'Standard Error' Economy Family
    <chr>
             <chr>
                           <dbl>
                                          <dbl>
                                                          <dbl>
                                                                  <dbl> <dbl>
                                           7.59
                                                         0.0341
                                                                   1.40
                                                                         1.35
## 1 Switzer~ Weste~
                               1
## 2 Iceland Weste~
                               2
                                           7.56
                                                         0.0488
                                                                  1.30
                                                                         1.40
## 3 Denmark Weste~
                               3
                                           7.53
                                                         0.0333
                                                                   1.33
                                                                         1.36
## 4 Norway
            Weste~
                               4
                                           7.52
                                                         0.0388
                                                                  1.46
                                                                         1.33
                               5
                                                                  1.33
## 5 Canada
            North~
                                           7.43
                                                         0.0355
                                                                         1.32
## 6 Finland Weste~
                                                                  1.29
                               6
                                           7.41
                                                         0.0314
                                                                         1.32
## # ... with 7 more variables: Health <dbl>, Freedom <dbl>, Trust <dbl>,
## # Generosity <dbl>, Dystopia_Residual <dbl>,
     'Lower Confidence Interval' <dbl>, 'Upper Confidence Interval' <dbl>
str(Total) #See list of columns and data types (numeric, character, etc)
## spec_tbl_df [470 x 14] (S3: spec_tbl_df/tbl_df/tbl/data.frame)
## $ Country
                            : chr [1:470] "Switzerland" "Iceland" "Denmark" "Norway" ...
## $ Region
                            : chr [1:470] "Western Europe" "Western Europe" "Western Europe" "Western
## $ Happiness_Rank
                            : num [1:470] 1 2 3 4 5 6 7 8 9 10 ...
                            : num [1:470] 7.59 7.56 7.53 7.52 7.43 ...
## $ Happiness_Score
## $ Standard Error
                            : num [1:470] 0.0341 0.0488 0.0333 0.0388 0.0355 ...
## $ Economy
                            : num [1:470] 1.4 1.3 1.33 1.46 1.33 ...
## $ Family
                            : num [1:470] 1.35 1.4 1.36 1.33 1.32 ...
## $ Health
                            : num [1:470] 0.941 0.948 0.875 0.885 0.906 ...
## $ Freedom
                            : num [1:470] 0.666 0.629 0.649 0.67 0.633 ...
## $ Trust
                            : num [1:470] 0.42 0.141 0.484 0.365 0.33 ...
## $ Generosity
                            : num [1:470] 0.297 0.436 0.341 0.347 0.458 ...
## $ Dystopia_Residual
                            : num [1:470] 2.52 2.7 2.49 2.47 2.45 ...
##
   - attr(*, "spec")=
##
##
    .. cols(
##
         Country = col_character(),
##
         Region = col_character(),
##
         'Happiness Rank' = col_double(),
##
        'Happiness Score' = col_double(),
    . .
        'Standard Error' = col_double(),
##
##
        'Economy (GDP per Capita)' = col_double(),
    . .
##
        Family = col_double(),
        'Health (Life Expectancy)' = col double(),
##
    . .
       Freedom = col_double(),
##
```

```
##
          'Trust (Government Corruption)' = col_double(),
##
         Generosity = col_double(),
          'Dystopia Residual' = col double()
##
     . .
##
     ..)
   - attr(*, "problems")=<externalptr>
summary(Total) #Statistical summary of data. Mainly for numerics
##
      Country
                          Region
                                         Happiness_Rank
                                                           Happiness_Score
   Length:470
                      Length: 470
##
                                               : 1.00
                                                          Min.
                                                                 :2.693
                                         Min.
##
   Class :character
                      Class :character
                                          1st Qu.: 40.00
                                                           1st Qu.:4.509
   Mode :character
                                         Median : 79.00
                                                          Median :5.282
                      Mode :character
##
                                         Mean : 78.83
                                                          Mean
                                                                :5.371
##
                                          3rd Qu.:118.00
                                                           3rd Qu.:6.234
##
                                         Max.
                                                :158.00
                                                          Max.
                                                                 :7.587
##
  Standard Error
                         Economy
                                          Family
                                                            Health
  Min.
          :0.01848
                                      Min.
##
                     Min.
                             :0.0000
                                             :0.0000
                                                        Min.
                                                              :0.0000
##
   1st Qu.:0.03727
                     1st Qu.:0.6053
                                      1st Qu.:0.7930
                                                        1st Qu.:0.4023
  Median :0.04394
                     Median :0.9954
                                      Median :1.0257
                                                        Median :0.6301
## Mean
          :0.04788
                     Mean
                           :0.9278
                                      Mean
                                             :0.9903
                                                       Mean
                                                              :0.5800
##
   3rd Qu.:0.05230
                     3rd Qu.:1.2524
                                       3rd Qu.:1.2287
                                                        3rd Qu.:0.7683
##
  Max.
          :0.13693
                     Max.
                           :1.8708
                                      Max.
                                             :1.6106
                                                       Max.
                                                              :1.0252
##
  NA's
           :312
##
      Freedom
                         Trust
                                         Generosity
                                                        Dystopia_Residual
                           :0.00000
##
  \mathtt{Min}.
          :0.0000
                    Min.
                                      Min.
                                             :0.0000
                                                       Min.
                                                              :0.3286
##
   1st Qu.:0.2976
                    1st Qu.:0.05978
                                      1st Qu.:0.1528
                                                        1st Qu.:1.7380
## Median :0.4183
                    Median :0.09950
                                      Median :0.2231
                                                        Median :2.0946
## Mean
         :0.4028
                    Mean
                           :0.13479
                                      Mean
                                             :0.2422
                                                       Mean :2.0927
   3rd Qu.:0.5169
                    3rd Qu.:0.17316
                                                        3rd Qu.:2.4556
##
                                       3rd Qu.:0.3158
## Max. :0.6697
                    Max. :0.55191
                                      Max.
                                             :0.8381
                                                       Max. :3.8377
##
## Lower Confidence Interval Upper Confidence Interval
                             Min.
                                     :2.865
## Min.
           :2.521
##
  1st Qu.:4.366
                              1st Qu.:4.552
## Median :5.211
                             Median :5.395
          :5.269
                                     :5.467
## Mean
                             Mean
   3rd Qu.:6.087
                              3rd Qu.:6.383
## Max.
                                     :7.669
         :7.480
                             Max.
##
   NA's
          :158
                             NA's
                                     :158
mean(Total$`Happiness_Score`) #straight average (total score / n)
## [1] 5.370728
median(Total$ Happiness_Score ) #midpoint number in the ascending array of score
## [1] 5.2825
```

[1] 7.587

max(Total\$`Happiness_Score`) #high score

```
min(Total$`Happiness_Score`) #low score

## [1] 2.693

sd(Total$Happiness_Score,na.rm = FALSE)

## [1] 1.136998
```

Provide summary

```
summary(Total$`Happiness_Score`)

## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 2.693 4.509 5.282 5.371 6.234 7.587
```

Find aggregation of Score and Family

```
aggregate(Total$\text{Happiness_Score}\tag{Fun} = mean)
```

```
##
       Total$Family Total$Happiness_Score
## 1
          0.000000
                                  3.224667
## 2
          0.1041900
                                  3.484000
## 3
          0.1103700
                                  3.360000
## 4
          0.1399500
                                  2.839000
## 5
          0.1470000
                                  4.156000
## 6
          0.1486600
                                  3.069000
## 7
          0.1851900
                                  3.832000
## 8
          0.1924900
                                  4.252000
## 9
          0.2344200
                                  2.905000
## 10
          0.2474900
                                  4.643000
          0.2613500
                                  5.132000
## 11
## 12
          0.2924700
                                  4.404000
## 13
          0.2956100
                                  4.028000
## 14
          0.3028500
                                  3.575000
          0.3109000
## 15
                                  3.607000
## 16
          0.3361300
                                  5.440000
## 17
          0.3538600
                                  3.340000
## 18
          0.3793200
                                  4.508000
## 19
          0.3817400
                                  4.565000
## 20
          0.3856200
                                  4.297000
## 21
          0.3859500
                                  5.151000
## 22
          0.3885700
                                  4.813000
## 23
          0.3961026
                                  3.462000
## 24
          0.4113400
                                  4.292000
## 25
          0.4141100
                                  5.194000
          0.4158700
                                  2.905000
## 26
```

## 27	0.4310600	4.694000
## 28	0.4316500	5.045000
## 29	0.4318825	3.495000
## 30	0.4352998	3.657000
## 31	0.4611500	3.695000
## 32	0.4647500	3.656000
## 33	0.4748900	3.006000
## 34	0.4749300	3.724000
## 35	0.4779900	4.236000
## 36	0.4935300	4.276000
## 37	0.4981300	4.362000
## 38	0.5016300	4.655000
## 39	0.5035300	3.622000
## 40	0.5125688	3.970000
## 41	0.5375000	3.907000
## 42	0.5444700	4.686000
## 43	0.5497000	4.876000
## 44	0.5706149	4.286000
## 45	0.5757600	3.916000
## 46	0.5815433	3.794000
## 47	0.5920500	4.575000
## 48	0.5920700	4.369000
## 49	0.6013231	3.591000
## 50	0.6032300	3.956000
## 51	0.6040600	4.512000
## 52	0.6042900	4.739000
## 53	0.6053000	3.856000
## 54	0.6080900	5.488000
## 55	0.6158600	3.515000
## 56	0.6247700	4.360000
## 57	0.6254200	4.513000
## 58	0.6273600	3.819000
## 59	0.6280000	4.635000
## 60	0.6297936	2.905000
## 61	0.6305400	3.739000
## 62	0.6317800	3.763000
## 63	0.6376000	4.795000
## 64	0.6404498	3.603000
## 65	0.6409500	5.013000
## 66	0.6418400	5.129000
## 67	0.6436700	5.163000
## 68	0.6449800	4.875000
## 69	0.6606200	5.401000
## 70	0.6629000	3.989000
## 71	0.6636600	3.866000
## 72	0.6680100	3.681000
## 73	0.6726907	5.269000
## 74	0.6795400	4.633000
## 75	0.6809300	4.077000
## 76	0.6865500	5.956000
## 77	0.6969900	4.793000
## 78	0.6998100	4.395000
## 79	0.7036200	4.574000
## 80	0.7069700	5.546000

##	81	0.7090500	4.307000
##	82	0.7115512	4.692000
##	83	0.7146000	6.778000
##	84	0.7147800	4.193000
##	85	0.7162900	4.754000
##	86	0.7211514	5.151000
##	87	0.7219400	5.835000
##	88	0.7236800	4.121000
##	89	0.7280300	5.528000
##	90	0.7351317	4.608000
##	91	0.7380300	4.876000
##	92	0.7417300	5.161000
##	93	0.7430200	4.518000
##	94	0.7470000	4.194000
##	95	0.7543726	4.315000
##	96	0.7547300	5.033000
##	97	0.7559600	4.871000
##	98	0.7560200	4.996000
##	99	0.7569500	5.648000
##	100	0.7586200	5.057000
##	101	0.7604200	5.291000
##	102	0.7606200	3.667000
##	103	0.7624000	4.356000
##	104	0.7711500	3.655000
##	105	0.7726500	3.845000
##	106	0.7737000	3.465000
##	107	0.7741600	4.219000
##	108	0.7748644	5.235000
##	109	0.7762300	3.666000
##	110	0.7771100	4.350000
##	111	0.7786600	6.269000
##	112	0.7823600	5.121000
##	113	0.7896800	4.571000
##	114	0.7911700	5.061000
##	115	0.7912447	3.507000
##	116	0.7927300	3.956000
##	117	0.7938100	5.245000
##	118	0.7962400	5.759000
##	119	0.8000100	4.839000
##	120	0.8036852	4.644000
##	121	0.8043400	4.959000
##	122	0.8067600	4.272000
##	123	0.8097500	6.068000
##	124	0.8119800	5.589000
##	125	0.8125500	5.743000
##	126	0.8132900	5.177000
##	127	0.8182600	5.771000
##	128	0.8188900	4.677000
##	128	0.8192800	4.139000
			5.897000
##	130	0.8313200 0.8320444	4.291000
##	131		
##	132	0.8330900	6.355000 5.822000
##	133	0.8377900	
##	134	0.8414200	4.201000

##	135	0.8478300	4.415000
##	136	0.8482900	6.379000
##	137	0.8518800	3.587000
##	138	0.8556300	4.786000
##	139	0.8597400	5.976000
##	140	0.8604000	4.033000
##	141	0.8621600	5.303000
##	142	0.8633300	4.073000
##	143	0.8644900	4.514000
##	144	0.8646692	4.460000
##	145	0.8675800	6.739000
##	146	0.8683515	4.805000
##	147	0.8690800	4.436000
##	148	0.8702100	5.458000
##	149	0.8707010	4.550000
##	150	0.8711400	6.573000
##	151	0.8711900	6.324000
##	152	0.8721179	3.533000
##	153	0.8736647	4.120000
##	154	0.8762500	5.314000
##	155	0.8771700	5.389000
##	156	0.8775800	6.239000
##	157	0.8787700	5.279000
##	158	0.8796400	6.375000
##	159	0.8802500	6.005000
##	160	0.8858800	5.124000
##	161	0.8876700	4.252000
##	162	0.8918600	3.974000
##	163	0.8931800	5.689000
##	164	0.8952100	5.992000
##	165	0.9043200	5.268000
##	166	0.9047800	4.180000
##	167	0.9052800	3.896000
##	168	0.9055700	5.192000
##	169	0.9058700	6.705000
##	170	0.9083600	5.196000
##	171	0.9098100	3.739000
##	172	0.9122600	5.360000
##	173	0.9130204	3.644000
##	174	0.9145100	7.187000
##	175	0.9161200	5.129000
##	176	0.9191600	4.949000
##	177	0.9254200	4.217000
##	178	0.9255800	4.715000
##	179	0.9262400	6.379000
##	180	0.9293300	4.857000
##	181	0.9316400	5.145000
##	182	0.9353822	3.593000
##	183	0.9379300	5.212000
##	184	0.9436700	5.123000
##	185	0.9439700	6.218000
##	186	0.9457070	3.471000
##	187	0.9460182	4.695000
##	188	0.9463200	5.332000

## 189	5.140000 5.560000 5.615000 5.057000 4.788000 3.936000 5.185000 5.919000
## 191	5.615000 5.057000 4.788000 3.936000 5.185000 5.919000
## 192	5.057000 4.788000 3.936000 5.185000 5.919000
## 193	4.788000 3.936000 5.185000 5.919000
## 194	3.936000 5.185000 5.919000
## 195	5.185000 5.919000
## 196	5.919000
## 197	
## 198	
## 199	4.507000
## 200	5.984000
## 201	4.459000
## 202	5.510000
## 203	5.293000
## 204	6.269000
## 205	5.824000
## 206	3.904000
## 207	5.890000
## 208	4.497000
## 209	4.709000
## 210	5.477000
## 211 0.9930250 ## 212 0.9949600 ## 213 0.9953700 ## 214 0.9974714 ## 215 0.9987600 ## 216 0.9990300 ## 217 1.0012000 ## 218 1.0023200 ## 219 1.0026800 ## 220 1.0031873 ## 221 1.0050800 ## 222 1.0062383 ## 223 1.0074837 ## 224 1.0079300 ## 225 1.0096400 ## 226 1.0140400 ## 227 1.0141300 ## 228 1.0152800 ## 230 1.0200000 ## 231 1.0215200 ## 231 1.0215200 ## 232 1.0216900 ## 233 1.0250700	6.168000
## 212	6.701000
## 213	4.028000 5.155000
## 214 0.9974714 ## 215 0.9987600 ## 216 0.9990300 ## 217 1.0012000 ## 218 1.0023200 ## 229 1.0031873 ## 222 1.0050800 ## 223 1.0074837 ## 224 1.0079300 ## 225 1.0096400 ## 226 1.0140400 ## 227 1.0141300 ## 228 1.0152800 ## 230 1.0200000 ## 231 1.0215200 ## 232 1.0216900 ## 233 1.0250700	7.267000
## 215	4.735000
## 216	4.419000
## 217	5.975000
## 218	4.517000
## 219	5.007000
## 220	3.781000
## 222	4.514000
## 223	6.478000
## 224	4.168000
## 225	4.376000
## 226	6.596000
## 227	5.123000
## 228	4.550000
## 229	4.324000
## 230	5.889000
## 231	4.271000
## 232 1.0216900 ## 233 1.0250700	6.798000
## 233 1.0250700	7.087000
	6.481000
## 224 1 0262600	6.130000
## 234 1.0202000	4.971000
## 235 1.0291200	7.339000
## 236 1.0314300	6.545000
## 237 1.0327600	4.610000
## 238 1.0330200	6.084000
## 239 1.0351600	5.073000
## 240 1.0352600	3.995000
## 241 1.0381700	5.658000
## 242 1.0393800	6.952000

##		1.0399900	6.871000
##	244	1.0410300	4.898000
##	245	1.0416700	5.977000
##	246	1.0419898	3.349000
##	247	1.0432800	4.032000
##	248	1.0435600	6.123000
##	249	1.0447700	6.474000
##	250	1.0468500	5.835000
##	251	1.0478200	7.104000
##	252	1.0499300	5.802000
##	253	1.0516300	5.517000
##	254	1.0524900	6.929000
##	255	1.0526100	5.856000
##	256	1.0539200	5.192000
##	257	1.0561300	5.768000
##	258	1.0581800	5.474000
##	259	1.0605400	5.921000
##	260	1.0641100	5.813000
##	261	1.0661200	6.650000
##	262	1.0679507	4.553000
##	263	1.0693359	5.182000
##	264	1.0700800	5.695000
##	265	1.0702300	5.770000
##	266 267	1.0728400 1.0761700	4.867000 6.298000
##	268	1.0777200	5.605000
##	269	1.0786000	6.611000
##	270	1.0811300	7.039000
##	271	1.0814178	5.956000
##	272	1.0818200	6.853000
##	273	1.0826800	6.078000
##	274	1.0830959	3.875000
##	275	1.0838300	7.119000
##	276	1.0839300	6.411000
##	277	1.0867200	6.725000
##	278	1.0870800	5.399000
##	279	1.0876400	7.291000
##	280	1.0898300	4.907000
##	281	1.0956200	5.098000
##	282	1.0961000	7.404000
##	283	1.0977400	6.994000
##	284	1.0984708	4.574000
##	285	1.0987900	6.488000
##	286	1.1039500	5.253000
##	287	1.1044120	3.795000
##	288	1.1046400	4.332000
##	289	1.1047600	7.313000
##	290	1.1061400	4.218000
##	291	1.1111100	5.538000
##	292	1.1186200	5.754000
##	293	1.1224100	5.855000
##	294	1.1232359	4.545000
##	295	1.1244700	6.670000
##	296	1.1257500	6.901000

##	297	1.1269000	7.498000
##	298	1.1282744	5.838000
##	299	1.1294500	6.361000
##	300	1.1296242	5.225000
##	301	1.1298277	4.081000
##	302	1.1313633	5.621000
##	303	1.1329900	3.931000
##	304	1.1346400	7.413000
##	305	1.1378535	5.279000
##	306	1.1393500	5.102000
##	307	1.1418400	5.828000
##	308	1.1439450	5.181000
##	309	1.1452400	7.509000
##	310	1.1462175	5.872000
##	311	1.1500913	5.825000
##	312	1.1510200	5.709000
##	313	1.1511500	5.286000
##	314	1.1524003	5.234000
##	315	1.1556202	4.465000
##	316	1.1556472	4.775000
##	317	1.1608374	5.273000
##	318	1.1615700	6.907000
##	319	1.1637400	7.526000
##	320	1.1659400	6.295000
##	321	1.1681000	5.987000
##	322	1.1720200	4.885000
##	323	1.1727800	7.334000
##	324	1.1792833	4.962000
##	325	1.1796919	4.535000
##	326	1.1821251	6.003000
##	327	1.1832600	7.501000
##	328	1.1835400	6.168000
##	329	1.1846800	4.642000
##	330	1.1863034	5.810000
##	331	1.1900952	3.808000
##	332	1.1977700	5.948000
##	333	1.1985000	6.786000
##	334	1.2021500	4.800000
##	335	1.2027800	4.681000
##	336	1.2064300	6.505000
##	337	1.2078930	5.175000
##	338	1.2089000	6.485000
##	339	1.2095610	5.629000
##	340	1.2108622	6.578000
##	341	1.2140086	4.139000
##	342	1.2157705	5.074000
##	343	1.2162400	5.960000
##	344	1.2187704	5.715000
##	345	1.2196300	6.946000
##	346	1.2215550	3.766000
##	347	1.2239300	7.278000
##	348	1.2266800	5.548000
##	349	1.2276191	5.823000
##	350	1.2279100	5.429000

##	351	1.2290235	4.280000
##	352	1.2328700	6.983000
##	353	1.2328900	5.813000
##	354	1.2361700	5.716000
##	355	1.2378800	7.226000
##	356	1.2383765	5.237000
##	357	1.2390889	5.336000
##	358	1.2394146	5.227000
##	359	1.2401800	6.477000
##	360	1.2471100	7.119000
##	361	1.2482300	6.574000
##	362	1.2518256	5.838000
##	363	1.2539176	5.430000
##	364	1.2555852	6.454000
##	365	1.2559600	6.810000
##	366	1.2571200	5.987000
##	367	1.2574500	5.833000
##	368	1.2581898	5.395000
##	369	1.2596987	6.105000
##	370	1.2599764	4.440000
##	371	1.2603800	6.575000
##	372	1.2627909	5.472000
##	373	1.2650400	6.455000
##	374	1.2664102	6.648000
##	375	1.2699900	5.995000
##	376	1.2714633	5.041000
##	377	1.2720308	4.292000
##	378	1.2738500	5.848000
##	379	1.2742969	6.375000
##	380	1.2744447	5.262000
##	381	1.2774913	5.074000
##	382	1.2794800	5.791000
##	383	1.2801700	7.378000
##	384	1.2814734	4.190000
##	385	1.2840250	6.652000
##	386	1.2846460	6.084000
##	387	1.2854800	6.867000
##	388	1.2856600	6.937000
##	389	1.2861688	6.008000
##	390	1.2866776	6.344000
##	391	1.2872157	6.071000
##	392	1.2890700	7.364000
##	393	1.2970400	7.200000
##	394	1.2993700	6.750000
##	395	1.3006000	4.874000
##	396	1.3020300	6.302000
##	397	1.3047700	5.878000
##	398	1.3092300	7.284000
##	399	1.3137900	6.329000
##	400	1.3182600	7.406000
##	401	1.3196700	7.286000
##	402	1.3226100	7.427000
##	403	1.3231105	6.087000
##	404	1.3309500	7.522000

##	405	1.3377532	5.500000
##	406	1.3401265	5.011000
##	407	1.3404300	6.003000
##	408	1.3431331	5.324000
##	409	1.3495100	7.587000
##	410	1.3538144	6.572000
##	411	1.3575643	5.525000
##	412	1.3605800	7.527000
##	413	1.3670430	5.195000
##	414	1.3682181	5.311000
##	415	1.3694800	6.940000
##	416	1.3731925	6.452000
##	417	1.3762900	7.213000
##	418	1.3802285	6.168000
##	419	1.3843690	5.819000
##	420	1.3845654	6.422000
##	421	1.3847886	4.829000
##	422	1.3877769	6.442000
##	423	1.3942386	5.004000
##	424	1.3945376	4.096000
##	425	1.4021829	6.357000
##	426	1.4022300	7.561000
##	427	1.4024167	5.230000
##	428	1.4047149	5.850000
##	429	1.4122279	6.454000
##	430	1.4164037	7.079000
##	431	1.4199206	6.993000
##	432	1.4257925	6.424000
##	433	1.4289392	7.377000
##	434	1.4313060	6.635000
##	435	1.4313376	5.250000
##	436	1.4338852	6.609000
##	437	1.4343795	4.714000
##	438	1.4363378	5.920000
##	439	1.4404511	6.599000
##	440	1.4449233	5.964000
##	441	1.4449452	5.569000
##	442	1.4457120	5.973000
##	443	1.4525188	5.758000
##	444	1.4575837	6.863000
##	445	1.4599450	7.006000
##	446	1.4623127	6.891000
##	447	1.4692824	5.963000
##	448	1.4725204	6.951000
##	449	1.4735161	5.902000
##	450	1.4766711	5.611000
##	451	1.4781622	7.284000
##	452	1.4813490	7.316000
##	453	1.4884117	6.527000
##	454	1.4930112	4.955000
##	455	1.4931492	5.822000
##	456	1.4964601	6.714000
##	457	1.5050592	6.098000
##	458	1.5072849	5.493000

```
## 459
         1.5100420
                                7.284000
## 460
         1.5169117
                                7.494000
         1.5320909
## 461
                                6.403000
## 462
         1.5335236
                                7.537000
## 463
         1.5402467
                                7.469000
         1.5481951
## 464
                                7.314000
## 465
         1.5489691
                                5.971000
## 466
         1.5511216
                                7.522000
## 467
         1.5582311
                                6.977000
## 468
         1.6105740
                                7.504000
```

aggregate(Total\$`Happiness_Score` ~ Total\$Family, FUN = median)

##		Total\$Family	Total\$Happiness_Score
##	1	0.0000000	3.303
##	2	0.1041900	3.484
##	3	0.1103700	3.360
##	4	0.1399500	2.839
##	5	0.1470000	4.156
##	6	0.1486600	3.069
##	7	0.1851900	3.832
##	8	0.1924900	4.252
##	9	0.2344200	2.905
##	10	0.2474900	4.643
##	11	0.2613500	5.132
##	12	0.2924700	4.404
##	13	0.2956100	4.028
##	14	0.3028500	3.575
##	15	0.3109000	3.607
##	16	0.3361300	5.440
##	17	0.3538600	3.340
##	18	0.3793200	4.508
##	19	0.3817400	4.565
##	20	0.3856200	4.297
##	21	0.3859500	5.151
##	22	0.3885700	4.813
##	23	0.3961026	3.462
##	24	0.4113400	4.292
##	25	0.4141100 0.4158700	5.194 2.905
##	26 27	0.4310600	4.694
##	28	0.4316500	5.045
##	29	0.4318825	3.495
##	30	0.4352998	3.657
##	31	0.4611500	3.695
##	32	0.4647500	3.656
##	33	0.4748900	3.006
##	34	0.4749300	3.724
##	35	0.4779900	4.236
##	36	0.4935300	4.276
##	37	0.4981300	4.362
##	38	0.5016300	4.655
##	39	0.5035300	3.622
##	40	0.5125688	3.970

##	41	0.5375000	3.907
##	42	0.5444700	4.686
##	43	0.5497000	4.876
##	44	0.5706149	4.286
##	45	0.5757600	3.916
##	46	0.5815433	3.794
##	47	0.5920500	4.575
##	48	0.5920700	4.369
##	49	0.6013231	3.591
##	50	0.6032300	3.956
##	51	0.6040600	4.512
##	52	0.6042900	4.739
##	53	0.6053000	3.856
##	54	0.6080900	5.488
##	55	0.6158600	3.515
##	56	0.6247700	4.360
##	57	0.6254200	4.513
##	58	0.6273600	3.819
##	59	0.6280000	4.635
##	60	0.6297936	2.905
##	61	0.6305400	3.739
##	62	0.6317800	3.763
##	63	0.6376000	4.795
##	64	0.6404498	3.603
##	65	0.6409500	5.013
##	66	0.6418400	5.129
##	67	0.6436700	5.163
##	68	0.6449800	4.875
##	69	0.6606200	5.401
##	70	0.6629000	3.989
##	71	0.6636600	3.866
##	72	0.6680100	3.681
##	73	0.6726907	5.269
##	74	0.6795400	4.633
##	75	0.6809300	4.077
##	76	0.6865500	5.956
##	77	0.6969900	4.793
	78	0.6998100	4.395
##	79	0.7036200	4.574
##	80	0.7069700	5.546
##	81	0.7090500	4.307
##	82	0.7115512	4.692
##	83	0.7146000	6.778
##	84	0.7147800	4.193
##	85	0.7162900	4.754
##	86	0.7211514	5.151
##	87	0.7219400	5.835
##	88	0.7236800	4.121
##	89	0.7280300	5.528
##	90	0.7351317	4.608
##	91	0.7380300	4.876
##	92	0.7417300	5.161
##	93	0.7430200	4.518
##	94	0.7470000	4.194
ırπ	J 1	3.1110000	1.104

##	95	0.7543726	4.315
##	96	0.7547300	5.033
##	97	0.7559600	4.871
##	98	0.7560200	4.996
##	99	0.7569500	5.648
##	100	0.7586200	5.057
##	101	0.7604200	5.291
	101	0.7606200	3.667
##			
##	103	0.7624000	4.356
##	104	0.7711500	3.655
##	105	0.7726500	3.845
##	106	0.7737000	3.465
##	107	0.7741600	4.219
##	108	0.7748644	5.235
##	109	0.7762300	3.666
##	110	0.7771100	4.350
##	111	0.7786600	6.269
##	112	0.7823600	5.121
##	113	0.7896800	4.571
##	114	0.7911700	5.061
##	115	0.7912447	3.507
##	116	0.7927300	3.956
##	117	0.7938100	5.245
##	118	0.7962400	5.759
##	119	0.8000100	4.839
##	120	0.8036852	4.644
##	121	0.8043400	4.959
##	122	0.8067600	4.272
##	123	0.8097500	6.068
##	124	0.8119800	5.589
	125	0.8125500	5.743
##	126		
##		0.8132900	5.177
##	127	0.8182600	5.771
##	128	0.8188900	4.677
##	129	0.8192800	4.139
##	130	0.8313200	5.897
##	131	0.8320444	4.291
##	132	0.8330900	6.355
##	133	0.8377900	5.822
##	134	0.8414200	4.201
##	135	0.8478300	4.415
##	136	0.8482900	6.379
##	137	0.8518800	3.587
##	138	0.8556300	4.786
##	139	0.8597400	5.976
##	140	0.8604000	4.033
##	141	0.8621600	5.303
##	142	0.8633300	4.073
##	143	0.8644900	4.514
##	144	0.8646692	4.460
##	145	0.8675800	6.739
##	146	0.8683515	4.805
##	147	0.8690800	4.436
##	148	0.8702100	5.458

##	149	0.8707010	4.550
##	150	0.8711400	6.573
##	151	0.8711900	6.324
##	152	0.8721179	3.533
##	153	0.8736647	4.120
##	154	0.8762500	5.314
##	155	0.8771700	5.389
##	156	0.8775800	6.239
##	157	0.8787700	5.279
##	158	0.8796400	6.375
##	159	0.8802500	6.005
##	160	0.8858800	5.124
##	161	0.8876700	4.252
##	162	0.8918600	3.974
##	163	0.8931800	5.689
##	164	0.8952100	5.992
##	165	0.9043200	5.268
##	166	0.9047800	4.180
##	167	0.9052800	3.896
##	168	0.9055700	5.192
##	169	0.9058700	6.705
##	170	0.9083600	5.196
##	171	0.9098100	3.739
##	172	0.9122600	5.360
##	173	0.9130204	3.644
##	174	0.9145100	7.187
##	175	0.9161200	5.129
##	176	0.9191600	4.949
##	177	0.9254200	4.217
##	178	0.9255800	4.715
##	179	0.9262400	6.379
##	180	0.9293300	4.857
##	181	0.9316400	5.145
##	182	0.9353822	3.593
##	183	0.9379300	5.212
##	184	0.9436700	5.123
##	185	0.9439700	6.218
##	186	0.9457070	3.471
##	187	0.9460182	4.695
##	188	0.9463200	5.332
##	189	0.9467500	5.140
##	190	0.9502500	5.560
##	191	0.9507600	5.615
##	192	0.9515200	5.057
##	193	0.9534800	4.788
##	194	0.9538559	3.936
##	195	0.9543400	5.185
##	196	0.9554400	5.919
##	197	0.9557100	4.507
##	198	0.9577400	5.984
##	199	0.9605300	4.459
##	200	0.9637200	5.510
##	201	0.9679830	5.293
##	202	0.9720000	6.269

##		0.9745900	5.824
##	204	0.9761900	3.904
##	205	0.9784100	5.890
##	206	0.9786132	4.497
##	207	0.9841360	4.709
##	208	0.9852100	5.477
##	209	0.9856900	6.168
##	210	0.9891200	6.701
##	211	0.9930250	4.028
##	212	0.9949600	5.155
##	213	0.9953700	7.267
##	214	0.9974714	4.735
##	215	0.9987600	4.419
##	216	0.9990300	5.975
##	217	1.0012000	4.517
##	218	1.0023200	5.007
##	219	1.0026800	3.781
##	220	1.0031873	4.514
##	221	1.0050800	6.478
##	222	1.0062383	4.168
##	223	1.0074837	4.376
##	224	1.0079300	6.596
##	225	1.0096400	5.123
##	226	1.0140400	4.550
##	227	1.0141300	4.324
##	228	1.0152800	5.889
##	229	1.0190500 1.0200000	4.271
##	230 231	1.0215200	6.798 7.087
##	232	1.0216900	6.481
##	233	1.0250700	6.130
##	234	1.0262600	4.971
##	235	1.0291200	7.339
##	236	1.0314300	6.545
##	237	1.0327600	4.610
##		1.0330200	6.084
##		1.0351600	5.073
##	240	1.0352600	3.995
##	241	1.0381700	5.658
##	242	1.0393800	6.952
##	243	1.0399900	6.871
##	244	1.0410300	4.898
##	245	1.0416700	5.977
##	246	1.0419898	3.349
##	247	1.0432800	4.032
##	248	1.0435600	6.123
##	249	1.0447700	6.474
##	250	1.0468500	5.835
##	251	1.0478200	7.104
##	252	1.0499300	5.802
##	253	1.0516300	5.517
##	254	1.0524900	6.929
##	255	1.0526100	5.856
##	256	1.0539200	5.192

##	257	1.0561300	5.768
##	258	1.0581800	5.474
##	259	1.0605400	5.921
##	260	1.0641100	5.813
##	261	1.0661200	6.650
##	262	1.0679507	4.553
##	263	1.0693359	5.182
##	264	1.0700800	5.695
##	265	1.0702300	5.770
##	266	1.0728400	4.867
##	267	1.0761700	6.298
##	268	1.0777200	5.605
##	269	1.0786000	6.611
##	270	1.0811300	7.039
##	271	1.0814178	5.956
##	272	1.0818200	6.853
##	273	1.0826800	6.078
##	274	1.0830959	3.875
##	275	1.0838300	7.119
##	276	1.0839300	6.411
##	277	1.0867200	6.725
##	278	1.0870800	5.399
##	279	1.0876400	7.291
##	280	1.0898300	4.907
##	281	1.0956200	5.098
##	282	1.0961000	7.404
##	283	1.0977400	6.994
##	284	1.0984708	4.574
##	285	1.0987900	6.488
##	286	1.1039500	5.253
##	287	1.1044120	3.795
##	288	1.1046400	4.332
##	289	1.1047600	7.313
##	290	1.1061400	4.218
##	291	1.1111100	5.538
##	292	1.1186200	5.754
##	293	1.1224100	5.855
##	294	1.1232359	4.545
##	295	1.1244700	6.670
##	296	1.1257500	6.901
##	297	1.1269000	7.498
##	298	1.1282744	5.838
##	299	1.1294500	6.361
##	300	1.1296242	5.225
##	301	1.1298277	4.081
##	302	1.1313633	5.621
##	303	1.1329900	3.931
##	304	1.1346400	7.413
##	305	1.1378535	5.279
##	306	1.1393500	5.102
##	307	1.1418400	5.828
##	308	1.1439450	5.181
##	309	1.1452400	7.509
##	310	1.1462175	5.872

	311	1.1500913	5.825
##	312	1.1510200	5.709
	313	1.1511500	5.286
	314	1.1524003	5.234
	315	1.1556202	4.465
	316	1.1556472	4.775
##	317	1.1608374	5.273
##	318	1.1615700	6.907
##		1.1637400	7.526
##		1.1659400	6.295
##		1.1681000	5.987
##		1.1720200	4.885
##		1.1727800	7.334
##		1.1792833	4.962
##		1.1796919	4.535
##		1.1821251	6.003
##		1.1832600	7.501
##		1.1835400	6.168
##		1.1846800	4.642
##		1.1863034	5.810
##		1.1900952	3.808
##		1.1977700	5.948
##		1.1985000	6.786
##	334	1.2021500	4.800
##	335	1.2027800	4.681
##		1.2064300	6.505
##		1.2078930	5.175
##		1.2089000	6.485
##		1.2095610	5.629
##		1.2108622	6.578
##		1.2140086	4.139
##		1.2157705	5.074
##		1.2162400	5.960
##		1.2187704	5.715
##		1.2196300	6.946
##		1.2215550	3.766
##		1.2239300	7.278
##	348	1.2266800	5.548
##	349	1.2276191	5.823
##	350	1.2279100	5.429
##	351	1.2290235	4.280
##	352	1.2328700	6.983
##	353	1.2328900	5.813
##	354	1.2361700	5.716
##	355	1.2378800	7.226
##	356	1.2383765	5.237
##	357	1.2390889	5.336
##	358	1.2394146	5.227
##	359	1.2401800	6.477
##	360	1.2471100	7.119
##	361	1.2482300	6.574
##	362	1.2518256	5.838
##	363	1.2539176	5.430
##	364	1.2555852	6.454

##	365	1.2559600	6.810
##	366	1.2571200	5.987
##	367	1.2574500	5.833
##	368	1.2581898	5.395
##	369	1.2596987	6.105
##	370	1.2599764	4.440
##	371	1.2603800	6.575
##	372	1.2627909	5.472
##	373	1.2650400	6.455
##	374	1.2664102	6.648
##	375	1.2699900	5.995
##	376	1.2714633	5.041
##	377	1.2720308	4.292
##	378	1.2738500	5.848
##	379	1.2742969	6.375
##	380	1.2744447	5.262
##	381	1.2774913	5.074
##	382	1.2794800	5.791
##	383	1.2801700	7.378
##	384	1.2814734	4.190
##	385	1.2840250	6.652
##	386	1.2846460	6.084
##	387	1.2854800	6.867
##	388	1.2856600	6.937
##	389	1.2861688	6.008
##	390	1.2866776	6.344
##	391	1.2872157	6.071
##	392	1.2890700	7.364
## ##	393 394	1.2970400 1.2993700	7.200 6.750
##	395	1.3006000	4.874
##	396	1.3020300	6.302
##	397	1.3047700	5.878
##	398	1.3092300	7.284
##	399	1.3137900	6.329
##	400	1.3182600	7.406
##	401	1.3196700	7.286
##	402	1.3226100	7.427
##	403	1.3231105	6.087
##	404	1.3309500	7.522
##	405	1.3377532	5.500
##	406	1.3401265	5.011
##	407	1.3404300	6.003
##	408	1.3431331	5.324
##	409	1.3495100	7.587
##	410	1.3538144	6.572
##	411	1.3575643	5.525
##	412	1.3605800	7.527
##	413	1.3670430	5.195
##	414	1.3682181	5.311
##	415	1.3694800	6.940
##	416	1.3731925	6.452
##	417	1.3762900	7.213
##	418	1.3802285	6.168

```
## 419
          1.3843690
                                      5.819
## 420
          1.3845654
                                      6.422
## 421
          1.3847886
                                      4.829
## 422
          1.3877769
                                      6.442
## 423
          1.3942386
                                      5.004
## 424
          1.3945376
                                      4.096
## 425
          1.4021829
                                      6.357
## 426
          1.4022300
                                      7.561
## 427
          1.4024167
                                      5.230
## 428
          1.4047149
                                      5.850
## 429
          1.4122279
                                      6.454
## 430
          1.4164037
                                      7.079
## 431
          1.4199206
                                      6.993
## 432
          1.4257925
                                      6.424
## 433
          1.4289392
                                      7.377
## 434
          1.4313060
                                      6.635
## 435
                                      5.250
          1.4313376
## 436
          1.4338852
                                      6.609
## 437
          1.4343795
                                      4.714
## 438
          1.4363378
                                      5.920
          1.4404511
## 439
                                      6.599
## 440
          1.4449233
                                      5.964
## 441
          1.4449452
                                      5.569
## 442
          1.4457120
                                      5.973
## 443
          1.4525188
                                      5.758
## 444
          1.4575837
                                      6.863
## 445
          1.4599450
                                      7.006
## 446
          1.4623127
                                      6.891
## 447
          1.4692824
                                      5.963
## 448
          1.4725204
                                      6.951
## 449
          1.4735161
                                      5.902
## 450
          1.4766711
                                      5.611
## 451
          1.4781622
                                      7.284
## 452
          1.4813490
                                      7.316
## 453
          1.4884117
                                      6.527
## 454
          1.4930112
                                      4.955
## 455
          1.4931492
                                      5.822
## 456
          1.4964601
                                      6.714
## 457
          1.5050592
                                      6.098
## 458
          1.5072849
                                      5.493
## 459
          1.5100420
                                      7.284
## 460
          1.5169117
                                      7.494
## 461
          1.5320909
                                      6.403
## 462
          1.5335236
                                      7.537
## 463
          1.5402467
                                      7.469
## 464
          1.5481951
                                      7.314
## 465
          1.5489691
                                      5.971
## 466
          1.5511216
                                      7.522
## 467
          1.5582311
                                      6.977
## 468
          1.6105740
                                      7.504
aggregate(Total$`Happiness_Score` ~ Total$Family, FUN = max)
```

Total\$Family Total\$Happiness_Score

##

##	1	0.000000	3.678
##	2	0.1041900	3.484
##	3	0.1103700	3.360
##	4	0.1399500	2.839
##	5	0.1470000	4.156
##	6	0.1486600	3.069
##	7	0.1851900	3.832
##	8	0.1924900	4.252
##	9	0.2344200	2.905
##	10	0.2474900	4.643
##	11	0.2613500	5.132
##	12	0.2924700	4.404
##	13	0.2956100	4.028
##	14	0.3028500	3.575
##	15	0.3109000	3.607
##	16	0.3361300	5.440
##	17	0.3538600	3.340
##	18	0.3793200	4.508
##	19	0.3817400	4.565
##	20	0.3856200	4.297
##	21	0.3859500	5.151
##	22	0.3885700	4.813
##	23	0.3961026	3.462
##	24	0.4113400	4.292
##	25	0.4141100	5.194
##	26	0.4158700	2.905
##	27	0.4310600	4.694
##	28	0.4316500	5.045
##	29	0.4318825	3.495
##	30	0.4352998	3.657
##	31	0.4611500	3.695
##	32	0.4647500	3.656
##	33	0.4748900	3.006
##	34	0.4749300	3.724
##	35	0.4779900	4.236
##	36	0.4935300	4.276
##	37	0.4981300	4.362
##	38	0.5016300	4.655
##	39	0.5035300	3.622
##	40	0.5125688	3.970
##	41	0.5375000	3.907
##	42	0.5444700	4.686
##	43	0.5497000	4.876
##	44	0.5706149	4.286
##	45	0.5757600	3.916
##	46	0.5815433	3.794
##	47	0.5920500	4.575
##	48	0.5920700	4.369
##	49	0.6013231	3.591
##	50	0.6032300	3.956
##	51	0.6040600	4.512
##	52	0.6042900	4.739
##	53	0.6053000	3.856
##	54	0.6080900	5.488

##	55	0.6158600	3.515
##	56	0.6247700	4.360
##	57	0.6254200	4.513
##	58	0.6273600	3.819
##	59	0.6280000	4.635
##	60	0.6297936	2.905
##	61	0.6305400	3.739
##	62	0.6317800	3.763
##	63	0.6376000	4.795
##	64	0.6404498	3.603
##	65	0.6409500	5.013
##	66	0.6418400	5.129
##	67	0.6436700	5.163
##	68	0.6449800	4.875
##	69	0.6606200	5.401
##	70	0.6629000	3.989
##	71	0.6636600	3.866
##	72	0.6680100	3.681
##	73	0.6726907	5.269
##	74	0.6795400	4.633
##	75	0.6809300	4.077
##	76	0.6865500	5.956
##	77	0.6969900	4.793
##	78	0.6998100	4.395
##	79	0.7036200	4.574
##	80	0.7069700	5.546
##	81	0.7090500	4.307
##	82	0.7115512	4.692
##	83	0.7146000	6.778
##	84	0.7147800	4.193
##	85	0.7162900	4.754
##	86	0.7211514	5.151
##	87	0.7219400	5.835
##	88	0.7236800	4.121
##	89	0.7280300	5.528
##	90	0.7351317	4.608
##	91	0.7380300	4.876
##	92	0.7417300	5.161
##	93	0.7430200	4.518
##	94	0.7470000	4.194
##	95	0.7543726	4.315
##	96	0.7547300	5.033
##	97	0.7559600	4.871
##	98	0.7560200	4.996
##	99	0.7569500	5.648
		0.7586200	
##	100	0.7604200	5.057
##	101		5.291
##	102	0.7606200	3.667
##	103	0.7624000	4.356
##	104	0.7711500	3.655
##	105	0.7726500	3.845
##	106	0.7737000	3.465
##	107	0.7741600	4.219
##	108	0.7748644	5.235

##	109	0.7762300	3.666
##	110	0.7771100	4.350
##	111	0.7786600	6.269
##	112	0.7823600	5.121
##	113	0.7896800	4.571
##	114	0.7911700	5.061
##	115	0.7912447	3.507
##	116	0.7927300	3.956
##	117	0.7938100	5.245
##	118	0.7962400	5.759
##	119	0.8000100	4.839
##	120	0.8036852	4.644
##	121	0.8043400	4.959
##	122	0.8067600	4.272
##	123	0.8097500	6.068
##	124	0.8119800	5.589
##	125	0.8125500	5.743
##	126	0.8132900	5.177
##	127	0.8182600	5.771
##	128	0.8188900	4.677
##	129	0.8192800	4.139
##	130	0.8313200	5.897
##	131	0.8320444	4.291
##	132	0.8330900	6.355
##	133	0.8377900	5.822
##	134	0.8414200	4.201
##	135	0.8478300	4.415
##	136	0.8482900	6.379
##	137	0.8518800	3.587
##	138	0.8556300	4.786
##	139	0.8597400	5.976
##	140	0.8604000	4.033
##	141	0.8621600	5.303
##	142	0.8633300	4.073
##	143	0.8644900	4.514
##	144	0.8646692	4.460
##	145	0.8675800	6.739
##	146	0.8683515	4.805
##	147	0.8690800	4.436
##	148	0.8702100	5.458
##	149	0.8707010	4.550
##	150	0.8711400	6.573
##	151	0.8711900 0.8721179	6.324
##	152 153		3.533
## ##	154	0.8736647 0.8762500	4.120 5.314
		0.8771700	
## ##	155 156	0.8775800	5.389 6.239
##	157	0.8787700	5.279
##	157	0.8796400	6.375
##	159	0.8802500	6.005
##	160	0.8858800	5.124
##	161	0.8876700	4.252
##	162	0.8918600	3.974
			5.011

##	163	0.8931800	5.689
##	164	0.8952100	5.992
##	165	0.9043200	5.268
##	166	0.9047800	4.180
##	167	0.9052800	3.896
##	168	0.9055700	5.192
##	169	0.9058700	6.705
##	170	0.9083600	5.196
##	171	0.9098100	3.739
##	172	0.9122600	5.360
##	173	0.9130204	3.644
##	174	0.9145100	7.187
##	175	0.9161200	5.129
##	176	0.9191600	4.949
##	177	0.9254200	4.217
##	178	0.9255800	4.715
##	179	0.9262400	6.379
##	180	0.9293300	4.857
##	181	0.9316400	5.145
##	182	0.9353822	3.593
##	183	0.9379300	5.212
##	184	0.9436700	5.123
##	185	0.9439700	6.218
##	186	0.9457070	3.471
##	187	0.9460182	4.695
##	188	0.9463200	5.332
##	189	0.9467500	5.140
##	190	0.9502500	5.560
##	191	0.9507600	5.615
##	192	0.9515200	5.057
##	193	0.9534800	4.788
##	194	0.9538559	3.936
##	195	0.9543400	5.185
##	196	0.9554400	5.919
##	197	0.9557100	4.507
##	198	0.9577400	5.984
##	199	0.9605300	4.459
##	200	0.9637200	5.510
##	201	0.9679830	5.293
##	202	0.9720000	6.269
##	203	0.9745900	5.824
##	204	0.9761900	3.904
##	205	0.9784100	5.890
##	206	0.9786132	4.497
##	207	0.9841360	4.709
##	208	0.9852100	5.477
##	209	0.9856900	6.168
##	210	0.9891200	6.701
##	211	0.9930250	4.028
##	212	0.9949600	5.155
##	213	0.9953700	7.267
##	214	0.9974714	4.735
##	215	0.9987600	4.419
##	216	0.9990300	5.975

##	217	1.0012000	4.517
##	218	1.0023200	5.007
##	219	1.0026800	3.781
##	220	1.0031873	4.514
##	221	1.0050800	6.478
##	222	1.0062383	4.168
##	223	1.0074837	4.376
##	224	1.0079300	6.596
##	225	1.0096400	5.123
##	226	1.0140400	4.550
##	227	1.0141300	4.324
##	228	1.0152800	5.889
##	229	1.0190500	4.271
##	230	1.0200000	6.798
##	231	1.0215200	7.087
##	232	1.0216900	6.481
##	233	1.0250700	6.130
##	234	1.0262600	4.971
##	235	1.0291200	7.339
##	236	1.0314300	6.545
##	237	1.0327600	4.610
##	238	1.0330200	6.084
##	239	1.0351600	5.073
##	240	1.0352600	3.995
##	241	1.0381700	5.658
##	242	1.0393800	6.952
##	243	1.0399900	6.871
##	244	1.0410300	4.898
##	245	1.0416700	5.977
##	246	1.0419898	3.349
##	247	1.0432800	4.032
##	248	1.0432600	6.123
##	249	1.0447700	6.474
##	250	1.0468500	5.835
##	251	1.0478200	7.104
##		1.0499300	5.802
##	253	1.0516300	5.517
##	254	1.0524900	6.929
##	255	1.0526100	5.856
##	256	1.0539200	5.192
##	257	1.0561300	5.768
##	258	1.0581800	5.474
##	259	1.0605400	5.921
##	260	1.0641100	5.813
##	261	1.0661200	6.650
##	262	1.0679507	4.553
##	263	1.0693359	5.182
##	264	1.0700800	5.695
##	265	1.0702300	5.770
##	266	1.0728400	4.867
##	267	1.0761700	6.298
##	268	1.0777200	5.605
##	269	1.0786000	6.611
##	270	1.0811300	7.039
πĦ	210	1.0011000	1.003

##	271	1.0814178	5.956
##	272	1.0818200	6.853
##		1.0826800	6.078
##		1.0830959	3.875
##	275	1.0838300	7.119
##	276	1.0839300	6.411
##	277	1.0867200	6.725
##	278	1.0870800	5.399
##	279	1.0876400	7.291
##	280	1.0898300	4.907
##	281	1.0956200	5.098
##	282	1.0961000	7.404
##	283	1.0977400	6.994
##	284	1.0984708	4.574
##	285	1.0987900	6.488
##	286	1.1039500	5.253
##	287	1.1044120	3.795
##	288	1.1046400	4.332
##	289	1.1047600	7.313
##	290	1.1061400	4.218
##	291	1.1111100	5.538
##	292	1.1186200	5.754
##	293	1.1224100	5.855
##	294	1.1232359	4.545
##	295	1.1244700	6.670
##	296	1.1257500	6.901
##	297	1.1269000	7.498
##	298	1.1282744	5.838
##	299	1.1294500	6.361
##	300	1.1296242	5.225
##	301	1.1298277	4.081
##	302	1.1313633	5.621
##	303	1.1329900	3.931
##	304	1.1346400	7.413
##	305	1.1378535	5.279
##	306	1.1393500	5.102
##	307	1.1418400	5.828
##	308	1.1439450	5.181
##	309	1.1452400	7.509
##	310	1.1462175	5.872
##	311	1.1500913	5.825
##	312	1.1510200	5.709
##	313	1.1511500	5.286
##	314	1.1524003	5.234
##	315	1.1556202	4.465
##	316	1.1556472	4.775
##	317	1.1608374	5.273
##	318	1.1615700	6.907
##	319	1.1637400	7.526
##	320	1.1659400	6.295
##	321	1.1681000	5.987
##	322	1.1720200	4.885
##	323	1.1727800	7.334
##	324	1.1792833	4.962

##	325	1.1796919	4.535
##	326	1.1821251	6.003
##	327	1.1832600	7.501
##	328	1.1835400	6.168
##	329	1.1846800	4.642
##	330	1.1863034	5.810
##	331	1.1900952	3.808
##	332	1.1977700	5.948
##	333	1.1985000	6.786
##	334	1.2021500	4.800
##	335	1.2027800	4.681
##	336	1.2064300	6.505
##	337	1.2078930	5.175
##	338	1.2089000	6.485
##	339	1.2095610	5.629
##	340	1.2108622	6.578
##	341	1.2140086	4.139
##	342	1.2157705	5.074
##	343	1.2162400	5.960
##	344	1.2187704	5.715
##	345	1.2196300	6.946
##	346	1.2215550	3.766
##	347	1.2239300	7.278
##	348	1.2266800	5.548
##	349	1.2276191	5.823
##	350	1.2279100	5.429
##	351	1.2290235	4.280
##	352	1.2328700	6.983
##	353	1.2328900	5.813
##	354	1.2361700	5.716
##	355	1.2378800	7.226
##	356	1.2383765	5.237
##	357	1.2390889	5.336
##	358	1.2394146	5.227
##	359	1.2401800	6.477
##	360	1.2471100	7.119
##	361	1.2482300	6.574
##	362	1.2518256	5.838
##	363	1.2539176	5.430
##	364	1.2555852	6.454
##	365	1.2559600	6.810
##	366	1.2571200	5.987
##	367	1.2574500	5.833
##	368	1.2581898	5.395
##	369	1.2596987	6.105
##	370	1.2599764	4.440
##	371	1.2603800	6.575
##	372	1.2627909	5.472
##	373	1.2650400	6.455
##	374	1.2664102	6.648
##	375	1.2699900	5.995
##	376	1.2714633	5.041
##	377	1.2720308	4.292
##	378	1.2738500	5.848

##	379	1.2742969	6.375
##	380	1.2744447	5.262
##	381	1.2774913	5.074
##	382	1.2794800	5.791
##	383	1.2801700	7.378
##	384	1.2814734	4.190
##	385	1.2840250	6.652
##	386	1.2846460	6.084
##	387	1.2854800	6.867
##	388	1.2856600	6.937
##	389	1.2861688	6.008
##	390	1.2866776	6.344
##	391	1.2872157	6.071
##	392	1.2890700	7.364
##	393	1.2970400	7.200
##	394	1.2993700	6.750
##	395	1.3006000	4.874
##	396	1.3020300	6.302
##	397	1.3047700	5.878
##	398	1.3092300	7.284
##	399	1.3137900	6.329
##	400	1.3182600	7.406
##	401	1.3196700	7.286
##	402	1.3226100	7.427
##	403	1.3231105	6.087
##	404	1.3309500	7.522
##	405	1.3377532	5.500
##	406	1.3401265	5.011
##	407	1.3404300	6.003
##	408	1.3431331	5.324
##	409	1.3495100	7.587
##	410	1.3538144	6.572
##	411	1.3575643	5.525
##	412	1.3605800	7.527
##	413	1.3670430	5.195
##	414	1.3682181	5.311
	415		6.940
##	416	1.3731925	6.452
##	417	1.3762900	7.213
##	418	1.3802285	6.168
##	419	1.3843690	5.819
##	420	1.3845654	6.422
##	421	1.3847886	4.829
##	422	1.3877769	6.442
##	423	1.3942386	5.004
##	424	1.3945376	4.096
##	425	1.4021829	6.357
##	426	1.4022300	7.561
##	427	1.4024167	5.230
##	428	1.4047149	5.850
##	429	1.4122279	6.454
##	430	1.4164037	7.079
##	431	1.4199206	6.993
##	432	1.4257925	6.424

```
## 433
          1.4289392
                                      7.377
## 434
          1.4313060
                                      6.635
                                      5.250
## 435
          1.4313376
## 436
          1.4338852
                                      6.609
## 437
          1.4343795
                                      4.714
## 438
          1.4363378
                                      5.920
## 439
          1.4404511
                                      6.599
## 440
          1.4449233
                                      5.964
## 441
          1.4449452
                                      5.569
## 442
          1.4457120
                                      5.973
## 443
          1.4525188
                                      5.758
                                      6.863
## 444
          1.4575837
## 445
          1.4599450
                                      7.006
## 446
          1.4623127
                                      6.891
## 447
          1.4692824
                                      5.963
## 448
          1.4725204
                                      6.951
## 449
          1.4735161
                                      5.902
## 450
          1.4766711
                                      5.611
## 451
          1.4781622
                                      7.284
## 452
          1.4813490
                                      7.316
## 453
          1.4884117
                                      6.527
## 454
          1.4930112
                                      4.955
## 455
                                      5.822
          1.4931492
## 456
          1.4964601
                                      6.714
## 457
          1.5050592
                                      6.098
## 458
          1.5072849
                                      5.493
## 459
          1.5100420
                                      7.284
## 460
          1.5169117
                                      7.494
## 461
          1.5320909
                                      6.403
## 462
          1.5335236
                                      7.537
## 463
          1.5402467
                                      7.469
## 464
          1.5481951
                                      7.314
## 465
          1.5489691
                                      5.971
                                      7.522
## 466
          1.5511216
## 467
          1.5582311
                                      6.977
## 468
          1.6105740
                                      7.504
```

aggregate(Total\$`Happiness_Score` ~ Total\$Family, FUN = min)

```
##
       Total$Family Total$Happiness_Score
## 1
          0.0000000
                                       2.693
## 2
          0.1041900
                                      3.484
## 3
                                      3.360
          0.1103700
          0.1399500
## 4
                                      2.839
## 5
          0.1470000
                                      4.156
## 6
          0.1486600
                                      3.069
## 7
          0.1851900
                                      3.832
## 8
          0.1924900
                                      4.252
## 9
          0.2344200
                                      2.905
## 10
          0.2474900
                                      4.643
## 11
          0.2613500
                                      5.132
## 12
          0.2924700
                                      4.404
## 13
          0.2956100
                                      4.028
## 14
          0.3028500
                                      3.575
```

##	15	0.3109000	3.607
##	16	0.3361300	5.440
##	17	0.3538600	3.340
##	18	0.3793200	4.508
##	19	0.3817400	4.565
##	20	0.3856200	4.297
##	21	0.3859500	5.151
##	22	0.3885700	4.813
##	23	0.3961026	3.462
##	24	0.4113400	4.292
##	25	0.4141100	5.194
##	26	0.4158700	2.905
##	27	0.4310600	4.694
##	28	0.4316500	5.045
##	29	0.4318825	3.495
##	30	0.4352998	3.657
##	31	0.4611500	3.695
##	32	0.4647500	3.656
##	33	0.4748900	3.006
##	34	0.4749300	3.724
##	35	0.4779900	4.236
##	36	0.4935300	4.276
##	37	0.4981300	4.362
##	38	0.5016300	4.655
##	39	0.5035300	3.622
##	40	0.5125688	3.970
##	41	0.5375000	3.907
##	42	0.5444700	4.686
##	43	0.5497000	4.876
##	44	0.5706149	4.286
##	45	0.5757600	3.916
##	46	0.5815433	3.794
##	47	0.5920500	4.575
##	48	0.5920700	4.369
##	49	0.6013231	3.591
##	50	0.6032300	3.956
##	51	0.6040600	4.512
##	52	0.6042900	4.739
##	53	0.6053000	3.856
##	54	0.6080900	5.488
##	55	0.6158600	3.515
##	56	0.6247700	4.360
##	57	0.6254200	4.513
##	58	0.6273600	3.819
##	59	0.6280000	4.635
##	60	0.6297936	2.905
##	61	0.6305400	3.739
##	62	0.6317800	3.763
##	63	0.6376000	4.795
##	64	0.6404498	3.603
##	65	0.6409500	5.013
##	66	0.6418400	5.129
##	67	0.6436700	5.163
##	68	0.6449800	4.875
			•

##	69	0.6606200	5.401
##	70	0.6629000	3.989
##	71	0.6636600	3.866
##	72	0.6680100	3.681
##	73	0.6726907	5.269
##	74	0.6795400	4.633
##	75	0.6809300	4.077
##	76	0.6865500	5.956
##	77	0.6969900	4.793
##	78	0.6998100	
			4.395
##	79	0.7036200	4.574
##	80	0.7069700	5.546
##	81	0.7090500	4.307
##	82	0.7115512	4.692
##	83	0.7146000	6.778
##	84	0.7147800	4.193
##	85	0.7162900	4.754
##	86	0.7211514	5.151
##	87	0.7219400	5.835
##	88	0.7236800	4.121
##	89	0.7280300	5.528
##	90	0.7351317	4.608
##	91	0.7380300	4.876
##	92	0.7417300	5.161
##	93	0.7430200	4.518
##	94	0.7470000	4.194
##	95	0.7543726	4.315
##	96	0.7547300	5.033
##	97	0.7559600	4.871
##	98	0.7560200	4.996
##	99	0.7569500	5.648
##	100	0.7586200	5.057
##	101	0.7604200	5.291
##	102	0.7606200	3.667
##	103	0.7624000	4.356
##	104	0.7711500	3.655
##	105	0.7726500	3.845
##	106	0.7737000	3.465
##	107	0.7741600	4.219
##	108	0.7748644	5.235
##	109	0.7762300	3.666
##	110	0.7771100	4.350
##	111	0.7786600	6.269
##	112	0.7823600	5.121
##	113	0.7896800	4.571
##	114	0.7911700	5.061
##	115	0.7912447	3.507
##	116	0.7927300	3.956
			5.245
##	117	0.7938100	
##	118	0.7962400	5.759
##	119	0.8000100	4.839
##	120	0.8036852	4.644
##	121	0.8043400	4.959
##	122	0.8067600	4.272

##	123	0.8097500	6.068
##	124	0.8119800	5.589
##	125	0.8125500	5.743
##	126	0.8132900	5.177
##	127	0.8182600	5.771
##	128	0.8188900	4.677
##	129	0.8192800	4.139
##	130	0.8313200	5.897
##	131	0.8320444	4.291
##	132	0.8330900	6.355
##	133	0.8377900	5.822
##	134	0.8414200	4.201
##	135	0.8478300	4.415
##	136	0.8482900	6.379
##	137	0.8518800	3.587
##	138	0.8556300	4.786
##	139	0.8597400	5.976
##	140	0.8604000	4.033
##	141	0.8621600	5.303
##	142	0.8633300	4.073
##	143	0.8644900	4.514
##	144	0.8646692	4.460
##	145	0.8675800	6.739
##	146	0.8683515	4.805
##	147	0.8690800	4.436
##	148	0.8702100	5.458
##	149	0.8707010	4.550
##	150	0.8711400	6.573
##	151	0.8711900	6.324
##	152	0.8721179	3.533
##	153	0.8736647	4.120
##	154	0.8762500	5.314
##	155	0.8771700	5.389
##	156	0.8775800	6.239
##	157	0.8787700	5.279
##	158	0.8796400	6.375
##	159	0.8802500	6.005
##	160	0.8858800	5.124
##	161	0.8876700	4.252
##	162	0.8918600	3.974
##	163	0.8931800	5.689
##	164	0.8952100	5.992
##	165	0.9043200	5.268
##	166	0.9047800	4.180
##	167	0.9052800	3.896
##	168	0.9055700	5.192
##	169	0.9058700	6.705
##	170	0.9083600	5.196
##	171	0.9098100	3.739
##	172	0.9122600	5.360
##	173	0.9130204	3.644
##	174	0.9145100	7.187
##	175	0.9161200	5.129
##	176	0.9191600	4.949

##	177	0.9254200	4.217
##	178	0.9255800	4.715
##	179	0.9262400	6.379
##	180	0.9293300	4.857
##	181	0.9316400	5.145
##	182	0.9353822	3.593
##	183	0.9379300	5.212
##	184	0.9436700	5.123
##	185	0.9439700	6.218
##	186	0.9457070	3.471
##	187	0.9460182	4.695
##	188	0.9463200	5.332
##	189	0.9467500	5.140
##	190	0.9502500	5.560
##	191	0.9507600	5.615
##	192	0.9515200	5.057
##	193	0.9534800	4.788
##	194	0.9538559	3.936 5.185
##	195 196	0.9543400 0.9554400	5.103
##	190	0.9557100	4.507
##	198	0.9577400	5.984
##	199	0.9605300	4.459
##	200	0.9637200	5.510
##	201	0.9679830	5.293
##	202	0.9720000	6.269
##	203	0.9745900	5.824
##	204	0.9761900	3.904
##	205	0.9784100	5.890
##	206	0.9786132	4.497
##	207	0.9841360	4.709
##	208	0.9852100	5.477
##	209	0.9856900	6.168
##	210	0.9891200	6.701
##	211	0.9930250	4.028
##	212	0.9949600	5.155
##		0.9953700	7.267
##	214	0.9974714	4.735
##	215	0.9987600	4.419
##	216	0.9990300	5.975
##	217 218	1.0012000 1.0023200	4.517 5.007
## ##	219	1.0026800	3.781
##	220	1.0031873	4.514
##	221	1.0050800	6.478
##	222	1.0062383	4.168
##	223	1.0074837	4.376
##	224	1.0079300	6.596
##	225	1.0096400	5.123
##	226	1.0140400	4.550
##	227	1.0141300	4.324
##	228	1.0152800	5.889
##	229	1.0190500	4.271
##	230	1.0200000	6.798

##	231	1.0215200	7.087
##	232	1.0216900	6.481
##	233	1.0250700	6.130
##	234	1.0262600	4.971
##	235	1.0291200	7.339
##	236	1.0314300	6.545
##	237	1.0327600	4.610
##	238	1.0330200	6.084
##	239	1.0351600	5.073
##	240	1.0352600	3.995
##	241	1.0381700	5.658
##	242	1.0393800	6.952
##	243	1.0399900	6.871
##	244	1.0410300	4.898
##	245	1.0416700	5.977
##	246	1.0419898	3.349
##	247	1.0432800	4.032
##	248	1.0435600	6.123
##	249	1.0447700	6.474
##	250	1.0468500	5.835
##	251	1.0478200	7.104
##	252	1.0499300	5.802
##	253	1.0516300	5.517
##	254	1.0524900	6.929
##	255	1.0526100	5.856
##	256	1.0539200	5.192
##	257	1.0561300	5.768
##	258	1.0581800	5.474
##	259	1.0605400	5.921
##	260	1.0641100	5.813
##	261	1.0661200	6.650
##	262	1.0679507	4.553
##	263	1.0693359	5.182
##	264	1.0700800	5.695
##	265	1.0702300	5.770
##	266	1.0728400	4.867
##	267	1.0761700	6.298
##	268	1.0777200	5.605
##	269	1.0786000	6.611
##	270	1.0811300	7.039
##	271	1.0814178	5.956
##	272	1.0818200	6.853
##	273	1.0826800	6.078
##	274	1.0830959	3.875
##	275	1.0838300	7.119
##	276	1.0839300	6.411
##	277	1.0867200	6.725
##	278	1.0870800	5.399
##	279	1.0876400	7.291
##	280	1.0898300	4.907
##	281	1.0956200	5.098
##	282	1.0961000	7.404
##	283	1.0977400	6.994
##	284	1.0984708	4.574

## 286				
## 287	##	285		6.488
## 288	##	286		5.253
## 289	##			3.795
## 290	##			4.332
## 291	##	289		7.313
## 292	##			4.218
## 293	##			5.538
## 294				5.754
## 295				5.855
## 296				4.545
## 297				6.670
## 298				6.901
## 299				7.498
## 300				5.838
## 301				6.361
## 302				5.225
## 303				4.081
## 304				5.621
## 305				3.931
## 306				7.413
## 307				5.279
## 308				5.102
## 309				5.828 5.181
## 310				7.509
## 311				5.872
## 312				5.825
## 313				5.709
## 314				5.286
## 315				5.234
## 316				4.465
## 317	##			4.775
## 319	##			5.273
## 320	##	318	1.1615700	6.907
## 321	##	319	1.1637400	7.526
## 322	##	320	1.1659400	6.295
## 323	##	321	1.1681000	5.987
## 324	##	322	1.1720200	4.885
## 325	##	323	1.1727800	7.334
## 326	##		1.1792833	4.962
## 327	##	325	1.1796919	4.535
## 328	##	326	1.1821251	6.003
## 329	##			7.501
## 330	##			6.168
## 331 1.1900952 3 ## 332 1.1977700 5 ## 333 1.1985000 6 ## 334 1.2021500 4 ## 335 1.2027800 4 ## 336 1.2064300 66 ## 337 1.2078930 5	##			4.642
## 332	##			5.810
## 333				3.808
## 334				5.948
## 335				6.786
## 336				4.800
## 337 1.2078930 5				4.681
				6.505
## 338 1.2089000 6				5.175
	##	<i>33</i> 8	1.2089000	6.485

##	339	1.2095610	5.629
##	340	1.2108622	6.578
##	341	1.2140086	4.139
##	342	1.2157705	5.074
##	343	1.2162400	5.960
##	344	1.2187704	5.715
##	345	1.2196300	6.946
##	346	1.2215550	3.766
##	347	1.2239300	7.278
##	348	1.2266800	5.548
##	349	1.2276191	5.823
##		1.2279100	5.429
##	351	1.2290235	4.280
##	352	1.2328700	6.983
##	353	1.2328900	5.813
##	354	1.2361700	5.716
##	355	1.2378800	7.226
##	356	1.2383765	5.237
##	357	1.2390889	5.336
##	358	1.2394146	5.227
##	359	1.2401800	6.477
##	360	1.2471100	7.119
##	361	1.2482300	6.574
##	362	1.2518256	5.838
##	363	1.2539176	5.430
##	364	1.2555852	6.454
##	365	1.2559600	6.810
##	366	1.2571200	5.987
##	367	1.2574500	5.833
##		1.2581898	5.395
##		1.2596987	6.105
##		1.2599764	4.440
##		1.2603800	6.575
##		1.2627909	5.472
##		1.2650400	6.455
##		1.2664102	6.648
		1.2699900	5.995
##	376	1.2714633	5.041
##	377	1.2720308	4.292
##	378	1.2738500	5.848
##	379	1.2742969	6.375
##	380	1.2744447	5.262
##	381	1.2774913	5.074
##	382	1.2794800	5.791
##	383	1.2801700	7.378
##	384	1.2814734	4.190
##	385	1.2840250	6.652
##	386	1.2846460	6.084
##	387	1.2854800	6.867
##	388	1.2856600	6.937
##	389	1.2861688	6.008
##	390	1.2866776	6.344
##	391	1.2872157	6.071
##	392	1.2890700	7.364

##	393	1.2970400	7.200
##	394	1.2993700	6.750
##	395	1.3006000	4.874
##	396	1.3020300	6.302
##	397	1.3047700	5.878
##	398	1.3092300	7.284
##	399	1.3137900	6.329
##	400	1.3182600	7.406
##	401	1.3196700	7.286
##	402	1.3226100	7.427
##	403	1.3231105	6.087
##	404	1.3309500	7.522
##	405	1.3377532	5.500
##	406	1.3401265	5.011
##	407	1.3404300	6.003
##	408	1.3431331	5.324
##	409	1.3495100	7.587
##	410	1.3538144	6.572
##	411	1.3575643	5.525
##	412	1.3605800	7.527
##	413	1.3670430	5.195
##	414	1.3682181	5.311
##	415	1.3694800	6.940
##	416	1.3731925	6.452
##	417	1.3762900	7.213
##	418	1.3802285	6.168
##	419	1.3843690	5.819
##	420	1.3845654	6.422
##	421	1.3847886	4.829
##	422	1.3877769	6.442
##	423	1.3942386	5.004
##	424	1.3945376	4.096
##	425	1.4021829	6.357
##	426	1.4022300	7.561
##	427	1.4024167	5.230
##	428	1.4047149	5.850
##	429	1.4122279	6.454
##	430	1.4164037	7.079
##	431	1.4199206	6.993
##	432	1.4257925	6.424
##	433	1.4289392	7.377
##	434	1.4313060	6.635
##	435	1.4313376	5.250
##	436	1.4338852	6.609
##	437	1.4343795	4.714
##	438	1.4363378	5.920
##	439	1.4404511	6.599
## ##	440 441	1.4449233 1.4449452	5.964 5.569
##	442	1.4457120	5.973
## ##	443	1.4525188 1.4575837	5.758 6.863
##	444 445	1.4599450	7.006
##	445	1.4623127	6.891
##	440	1.4023121	0.891

```
## 447
          1.4692824
                                      5.963
## 448
          1.4725204
                                      6.951
                                      5.902
## 449
          1.4735161
## 450
          1.4766711
                                      5.611
## 451
          1.4781622
                                      7.284
## 452
          1.4813490
                                      7.316
## 453
          1.4884117
                                      6.527
## 454
          1.4930112
                                      4.955
## 455
          1.4931492
                                      5.822
## 456
          1.4964601
                                      6.714
## 457
          1.5050592
                                      6.098
## 458
          1.5072849
                                      5.493
## 459
          1.5100420
                                      7.284
## 460
          1.5169117
                                      7.494
## 461
          1.5320909
                                      6.403
## 462
          1.5335236
                                      7.537
## 463
          1.5402467
                                      7.469
## 464
          1.5481951
                                      7.314
## 465
          1.5489691
                                      5.971
## 466
          1.5511216
                                      7.522
## 467
          1.5582311
                                      6.977
## 468
          1.6105740
                                      7.504
```

Let's aggregrate the data

```
aggregate(Total$\text{Happiness_Score}\tag{Family + Total$\text{Economy}\text{, FUN = mean}\)
```

```
##
       Total$Family Total$Economy Total$Happiness_Score
## 1
                        0.0000000
          0.0000000
                                                     2.693
## 2
          0.3361300
                        0.00000000
                                                     5.440
## 3
          1.0012000
                        0.00000000
                                                     4.517
## 4
                                                     2.905
          0.4158700
                        0.01530000
## 5
          0.4113400
                        0.01604000
                                                     4.292
## 6
                        0.02264318
          0.7211514
                                                     5.151
## 7
          0.8067600
                        0.05661000
                                                     4.272
## 8
          0.2344200
                        0.06831000
                                                     2.905
## 9
          0.7726500
                        0.06940000
                                                     3.845
## 10
          0.7896800
                        0.07120000
                                                     4.571
## 11
          0.0000000
                        0.07850000
                                                     3.678
## 12
                        0.08308000
                                                     4.971
          1.0262600
## 13
          0.1470000
                        0.08709000
                                                     4.156
## 14
                        0.09162257
                                                     2.905
          0.6297936
## 15
          1.2290235
                        0.09210235
                                                     4.280
## 16
          0.5035300
                        0.10706000
                                                     3.622
## 17
          0.8721179
                        0.11904179
                                                     3.533
## 18
          0.6053000
                        0.13270000
                                                     3.856
## 19
          0.9930250
                        0.16192533
                                                     4.028
## 20
          0.4647500
                        0.17417000
                                                     3.656
## 21
          0.9515200
                        0.18847000
                                                     5.057
## 22
          0.6040600
                        0.19073000
                                                     4.512
## 23
          0.6680100
                        0.20824000
                                                     3.681
```

##	24	0.1399500	0.20868000	2.839
##	25	1.1329900	0.21102000	3.931
##	26	0.7737000	0.22208000	3.465
##	27	0.3109000	0.22415000	3.607
##	28	0.5125688	0.23344204	3.970
##	29	0.8707010	0.23430565	4.550
##	30	0.7927300	0.23906000	3.956
##	31	0.7912447	0.24454993	3.507
##	32	0.7586200	0.25558000	5.057
##	33	0.8518800	0.25812000	3.587
##	34	1.0352600	0.26074000	3.995
##	35	0.7430200	0.26673000	4.518
##	36	1.0327600	0.27100000	4.610
##	37	0.7090500	0.27108000	4.307
##	38	0.6032300	0.27509000	3.956
##	39	0.4611500	0.27954000	3.695
##	40	0.0000000	0.28123000	3.303
	41	1.0026800	0.28520000	3.781
##	42	0.3538600	0.28665000	3.340
##	43	0.3793200	0.29283000	4.508
##	44	0.4318825	0.30544472	3.495
##	45	0.9130204	0.30580869	3.644
##	46	0.8633300	0.31292000	4.073
##	47	0.3028500	0.31982000	3.575
##	48	0.6305400	0.31995000	3.739
##	49	0.6158600	0.32846000	3.515
##	50	0.9557100	0.33024000	4.507
##	51	0.8646692	0.33923385	4.460
##	52	0.2956100	0.34097000	4.028
##	53	0.6998100	0.34112000	4.395
##	54	0.7606200	0.34193000	3.667
##	55	0.9098100	0.34719000	3.739
##	56	1.0432800	0.35022771	4.032
##	57	0.7147800	0.35041000	4.193
##	58	0.8644900	0.35997000	4.514
##	59	0.9987600	0.36471000	4.419
##	60	0.6280000	0.36485000	4.635
	61	0.9761900	0.36498000	3.904
##	62	1.1232359	0.36711055	4.545
##	63	0.9841360	0.36842093	4.709
##	64	0.6404498	0.36861026	3.603
##	65	0.9457070	0.36874589	3.471
##	66	1.0410300	0.37545000	4.898
##	67	1.0830959	0.37584653	3.875
##	68	1.1298277	0.38143072	4.081
##	69	0.1103700	0.38227000	3.360
##	70	0.8556300	0.39047000	4.786
##	71	0.1851900	0.39394000	3.832
##	72	0.1041900	0.39499000	3.484
##	73	0.6013231	0.39724863	3.591
##	74	0.4310600	0.39753000	4.694
##	75	0.5815433	0.40147722	3.794
##	76	0.6317800	0.42214000	3.763
##	77	0.8876700	0.42250000	4.252

## 78	0.4352998	0.43108541	3.657
## 79	0.9538559	0.43801299	3.936
## 80	0.5920700	0.44025000	4.369
## 81	0.7741600	0.44314000	4.219
## 82	0.6969900	0.44626000	4.793
## 83	0.8690800	0.45407000	4.436
## 84	0.6273600	0.46038000	3.819
## 85	0.7711500	0.46534000	3.655
## 86	0.9161200	0.47038000	5.129
## 87	0.7762300	0.47155000	3.666
## 88	1.1511500	0.47428000	5.286
## 89	1.2814734	0.47618049	4.190
## 90	1.1796919	0.47930902	4.535
## 91	1.1792833	0.47982019	4.962
## 92	0.7560200	0.48835000	4.996
## 93	1.0419898	0.51113588	3.349
## 94	1.1900952	0.52102125	3.808
## 95	1.0140400	0.52107000	4.550
## 96	0.7624000	0.52267000	4.356
## 97	1.2714633	0.52471364	5.041
## 98	0.6254200	0.52497000	4.513
## 99	0.2474900	0.54177000	4.643
## 100	0.6795400	0.54558000	4.633
## 101	0.6809300	0.54649000	4.077
## 102	0.5757600	0.55507000	3.916
## 103	0.5375000	0.55604000	3.907
## 104	0.9543400	0.56044000	5.185
## 105	1.0679507	0.56047946	4.553
## 106	0.9460182	0.56430537	4.695
## 107	0.4749300	0.57939000	3.724
## 108	0.7351317	0.58668298	4.608
## 109	0.7380300	0.59066000	4.876
## 110	0.9353822	0.59168345	3.593
## 111	1.1418400	0.59325000	5.828
## 112	1.0152800	0.59448000	5.889
## 113	0.9534800	0.59532000	4.788
## 114	0.4141100	0.59543000	5.194
## 115	1.3942386	0.59622008	5.004
## 116	0.9255800	0.59867000	4.715
## 117	1.0062383	0.60176510	4.168
## 118	0.9047800	0.60304892	4.180
## 119	0.6376000	0.61202000	4.795
## 120	0.8414200	0.61391000	4.201
## 121	0.8192800	0.63069000	4.139
## 122	0.4935300	0.63107000	4.276
## 123	0.9122600	0.63216000	5.360
## 124	1.3404300	0.63244000	6.003
## 125	1.0031873	0.63640678	4.514
## 126	0.3817400	0.64499000	4.565
## 127	1.2720308	0.64845729	4.292
## 128	0.9043200	0.65435000	5.268
## 129	1.2140086	0.65951669	4.139
## 130	0.4748900	0.66320000	3.006
## 131	0.8736647	0.66722482	4.120

##	132	0.7162900	0.67024000	4.754
##	133	0.6629000	0.67866000	3.989
##	134	0.5497000	0.68042000	4.876
##	135	0.9784100	0.68133000	5.890
##	136	0.2613500	0.68816000	5.132
##	137	0.8313200	0.69177000	5.897
##	138	0.8952100	0.69384000	5.992
##	139	0.7559600	0.69429000	4.871
##	140	1.0351600	0.70532000	5.073
##	141	1.0728400	0.71206000	4.867
##	142	1.1556472	0.71624923	4.775
##	143	0.6726907	0.72688353	5.269
##	144	1.2518256	0.72887063	5.838
##	145	1.1439450	0.73057312	5.181
##	146	0.6409500	0.73479000	5.013
##	147	1.1681000	0.73591000	5.987
##	148	1.2872157	0.73729920	6.071
##	149	0.2924700	0.74036000	4.404
##	150	0.7911700	0.74037000	5.061
##	151	0.3856200	0.74190000	4.297
##	152	1.0435600	0.74553000	6.123
##	153	0.1486600	0.74719000	3.069
##	154	0.6449800	0.75216000	4.875
##	155	0.8604000	0.75778000	4.033
##	156	1.3047700	0.75985000	5.878
##	157	1.0250700	0.76454000	6.130
##	158	0.7771100	0.76821000	4.350
##	159	1.1039500	0.77042000	5.253
##	160	0.4779900	0.77109000	4.236
##	161	0.3961026	0.77715313	3.462
##	162	1.2157705	0.78375626	5.074
##	163	1.5489691	0.78644109	5.971
##	164	1.2774913	0.78854758	5.074
##	165	0.7543726	0.79222125	4.315
##	166	0.8377900	0.79422000	5.822
##	167	1.2027800	0.79907000	4.681
##	168	0.8119800	0.80148000	5.589
##	169	0.8320444	0.80896425	4.291
##	170	1.1510200	0.81038000	5.709
##	171	0.8787700	0.81217000	5.279
##	172	1.3006000	0.82819000	4.874
##	173	1.0870800	0.82827000	5.399
##	174	0.9191600	0.83223000	4.949
##	175	1.2276191	0.83375657	5.823
##	176	0.8711900	0.83454000	6.324
##	177	1.0190500	0.83524000	4.271
##	178	0.1924900	0.83792000	4.252
##	179	0.3859500	0.84058000	5.151
##	180	0.6636600	0.84731000	3.866
##	181	0.9083600	0.85270000	5.196
##	182	1.2539176	0.85769922	5.430
##	183	1.1044120	0.85842818	3.795
##	184	0.6247700	0.86086000	4.360
##	185	0.9990300	0.86402000	5.975

##	186	1.2555852	0.87200195	6.454
##	187	1.0141300	0.87287000	4.324
##	188	0.8097500	0.87370000	6.068
##	189	0.6865500	0.87616000	5.956
##	190	0.7748644	0.87811458	5.235
##	191	0.8043400	0.87867000	4.959
##	192	0.6042900	0.88113000	4.739
##	193	0.7470000	0.88180000	4.194
##	194	1.3401265	0.88541639	5.011
##	195	0.9467500	0.89012000	5.140
##	196	0.9637200	0.89333000	5.510
##	197	1.1111100	0.89373000	5.538
##	198	1.3945376	0.89465195	4.096
##	199	1.1720200	0.89537000	4.885
##	200	0.9745900	0.90019000	5.824
##	201	1.0074837	0.90059674	4.376
##	202	0.6606200	0.90145000	5.401
##	203	1.0539200	0.90198000	5.192
##	204	1.0814178	0.90797532	5.956
##	205	1.1821251	0.90978450	6.003
##	206	1.0023200	0.91851000	5.007
##	207	1.2401800	0.91861000	6.477
##	208	1.1846800	0.92049000	4.642
##	209	1.0096400	0.92053000	5.123
##	210	1.3682181	0.92557931	5.311
##	211	1.5072849	0.93253732	5.493
##	212	0.7036200	0.93287000	4.574
##	213	0.6436700	0.93383000	5.163
##	214	1.0777200	0.93929000	5.605
##	215	0.5706149	0.95061266	4.286
##	216	0.8762500	0.95104000	5.314
##	217	1.1378535	0.95148438	5.279
##	218	0.4981300	0.95395000	4.362
##	219	0.5016300	0.95530000	4.655
##	220	1.2378800	0.95578000	7.226
##	221	1.2266800	0.95847000	5.548
##	222	1.0984708	0.96443433	4.574
	223	1.2650400	0.96690000	6.455
##	224	0.8597400	0.97306000	5.976
##	225	0.8478300	0.97318000	4.415
##	226	0.9055700	0.97438000	5.192
##	227	0.4316500	0.97724000	5.045
##	228	1.2328700	0.98124000	6.983
##	229	1.0693359	0.98240942	5.182
##	230	0.8188900	0.98549000	4.677
##	231	1.0898300	0.98853000	4.907
##	232	0.9974714	0.98970181 0.99101239	4.735
##	233	1.2390889		5.336
##	234	1.1046400	0.99355000	4.332
##	235	0.9720000	0.99534000	6.269
##	236	1.2744447	0.99553859	5.262
##	237	0.8125500	0.99602000	5.743
##	238	0.8036852 0.8621600	0.99619275	4.644 5.303
##	239	0.0021000	0.99673000	5.303

## 24	40 :	1.2861688	1.00082040	6.008
		0.8683515	1.00726581	4.805
–		0.9852100	1.00761000	5.477
		0.5444700	1.00880000	4.686
		1.2599764	1.00985014	4.440
		1.1061400	1.01216000	4.218
		0.7823600	1.01930000	5.121
		0.9145100	1.02054000	7.187
		0.9379300	1.02389000	5.212
		0.9605300	1.02416000	4.459
		0.8000100	1.02564000	4.839
		1.4930112	1.02723587	4.955
		0.7938100	1.02780000	5.245
		0.9949600	1.02787000	5.155
		1.0216900	1.03032000	6.481
		1.2328900	1.03192000	5.813
		0.8132900	1.03437000	5.177
		1.2187704	1.03522527	5.715
## 25		0.8858800	1.04345000	5.124
## 25		1.2559600	1.04424000	6.810
		0.8330900	1.05266000	6.355
## 26		1.2482300	1.05351000	6.574
—		1.3847886	1.05469871	4.829
		0.9052800	1.06024000	3.896
		0.9463200	1.06098000	5.332
		1.2089000	1.06166000	6.485
		1.1985000	1.06353000	6.786
## 26		1.2078930	1.06457794	5.175
		0.9507600	1.06688000	5.615
		1.0215200	1.06879000	7.087
## 2		1.2581898 1.4021829	1.06931758 1.07062232	5.395 6.357
		0.5920500	1.07474000	4.575
## 2		1.1296242	1.07474000	5.225
## 27		0.7417300	1.07838000	5.161
		1.4024167	1.07937384	5.230
## 2		1.0381700	1.08017000	5.658
## 27		1.1608374	1.08116579	5.273
## 27		0.7962400	1.08254000	5.759
## 27		1.0393800	1.08754000	6.952
## 28		1.0447700	1.08930000	6.474
## 28		1.1462175	1.09186447	5.872
## 28		0.8918600	1.09426000	3.974
## 28		0.7786600	1.09686000	6.269
## 28		1.3575643	1.10180306	5.525
## 28		0.9786132	1.10271049	4.497
## 28		1.1244700	1.10715000	6.670
## 28		1.4313060	1.10735321	6.635
		1.4164037	1.10970628	7.079
## 28		0.9254200	1.11306000	4.217
## 29		1.0956200	1.11312000	5.098
## 29		0.7146000	1.11508000	6.778
## 29		0.3885700	1.11758000	4.813
## 29		1.2021500	1.12094000	4.800
,	-	. ===•		

## 294	1.2383765	1.12112904	5.237
## 295	1.2215550	1.12209415	3.766
## 296	1.1224100	1.12254000	5.855
## 297	0.6418400	1.12268000	5.129
## 298	0.7604200	1.12373000	5.291
## 299	1.0702300	1.12486000	5.770
## 300	1.2794800	1.12555000	5.791
## 301	1.4257925	1.12786877	6.424
## 302	1.4313376 1.0499300	1.12843120	5.250
## 303 ## 304	1.4931492	1.13062000 1.13077676	5.802 5.822
## 304	1.1186200	1.13145000	5.754
## 306	1.0330200	1.13367000	6.084
## 307	1.2361700	1.13764000	5.716
## 308	0.7569500	1.14372000	5.648
## 309	1.2574500	1.14723000	5.833
## 310	1.0661200	1.15137000	6.650
## 311	1.2279100	1.15174000	5.429
## 312	1.2108622	1.15318382	6.578
## 313	1.1524003	1.15360177	5.234
## 314	0.9293300	1.15406000	4.857
## 315	1.4449452	1.15655756	5.569
## 316	0.7115512	1.15687311	4.692
## 317	0.7236800	1.15851000	4.121
## 318	1.1393500	1.15991000	5.102
## 319	1.4343795	1.16145909	4.714
## 320	0.8771700	1.16492000	5.389
## 321	1.2699900	1.16891000	5.995
## 322	0.7280300	1.16970000	5.528
## 323	1.2064300	1.17898000	6.505
## 324	1.0314300	1.18157000	6.545
## 325	0.9891200	1.18306000	6.701
## 326	1.2738500	1.18498000	5.848
## 327	1.4404511	1.18529546	6.599
## 328	0.6080900	1.18649000	5.488
## 329	1.2095610	1.18939555	5.629
## 330	1.1556202	1.19821024	4.465
## 331	1.3377532	1.19827437	5.500
## 332	1.3020300	1.20740000	6.302
## 333	1.0700800	1.20806000	5.695
## 334	0.8931800	1.20813000	5.689
## 335	1.1835400	1.21183000	6.168
## 336 ## 337	0.9058700 1.4122279	1.21670000 1.21755970	6.705
## 337 ## 338	1.4122279	1.21768391	6.454
## 338 ## 339	0.9502500	1.21788000	5.825 5.560
## 339 ## 340	0.9679830	1.22255623	5.293
## 340 ## 341	1.2239300	1.22857000	7.278
## 341 ## 342	0.9554400	1.22943000	5.919
## 343	1.3137900	1.23011000	6.329
## 344	1.0526100	1.23228000	5.856
## 345	1.3731925	1.23374844	6.452
## 346	0.9316400	1.24142000	5.145
## 347	0.9577400	1.24461000	5.984
511	2.22.7.200		0.001

## 3		1.0468500	1.24585000	5.835
	349	0.7547300	1.24886000	5.033
	350	1.3196700	1.25018000	7.286
	351	1.1977700	1.25114000	5.948
	352	0.8802500	1.25142000	6.005
	353	1.2840250	1.25278461	6.652
	354	1.4047149	1.26074862	5.850
	355	1.2854800	1.26637000	6.867
	356	1.0641100	1.26920000	5.813
	357	1.2571200	1.27074000	5.987
	358	0.9436700	1.27607000	5.123
	359	1.2603800	1.27778000	6.575
	360	1.0516300	1.27964000	5.517
	361	1.0826800	1.27973000	6.078
	362	1.4692824	1.28177810	5.963
	363	1.3843690	1.28455627 1.28601193	5.819
	364 365	1.3431331 1.2394146	1.28948748	5.324 5.227
	366	1.3182600	1.29925000	7.406
	367	1.0761700	1.29025000	6.298
	368	1.2846460	1.29121542	6.084
	369	1.4457120	1.29178786	5.973
	370	1.0561300	1.29947000	5.768
	370 371	1.4022300	1.30232000	7.561
	371 372	1.0987900	1.30782000	6.488
	372 373	1.2856600	1.30782000	6.937
	374	1.0079300	1.30915000	6.596
	375	0.8182600	1.31141000	5.771
	376	1.4735161	1.31458235	5.902
	377	1.3670430	1.31517529	5.195
## 3	378	0.7069700	1.31857000	5.546
## 3	379	1.4766711	1.32087934	5.611
## 3	380	1.2162400	1.32376000	5.960
## 3	381	1.5050592	1.32539356	6.098
## 3	382	1.3605800	1.32548000	7.527
## 3	383	0.9856900	1.32572000	6.168
## 3	384	1.3226100	1.32629000	7.427
## 3	385	1.2993700	1.32792000	6.750
## 3	386	1.2801700	1.32944000	7.378
## 3	387	1.2890700	1.33171000	7.364
	388	1.3092300	1.33358000	7.284
	389	1.3694800	1.33596000	6.940
	390	1.2970400	1.33723000	7.200
	391	0.9953700	1.33766000	7.267
	392	1.4525188	1.34120595	5.758
	393	1.1294500	1.34253000	6.361
	394	1.4884117	1.34327984	6.527
	395	1.1863034	1.34691131	5.810
	396	1.4338852	1.35268235	6.609
	397	1.0416700	1.35495000	5.977
	398	1.1313633	1.35593808	5.621
	399	1.0811300	1.35943000	7.039
## 4		0.7219400	1.35948000	5.835
## 4	401	1.0818200	1.36011000	6.853

##	402	1.1727800	1.36066000	7.334
	403	1.3802285	1.36135590	6.168
	404	1.3762900	1.37538242	7.213
	405	1.0605400	1.38007000	5.921
	406	1.5320909	1.38439786	6.403
	407	1.0581800	1.38604000	5.474
	408	1.2471100	1.39451000	7.119
	409	1.0050800	1.39488000	6.478
	410	1.4449233	1.39506662	5.964
	411	1.0839300	1.39541000	6.411
	412	1.3495100	1.39651000	7.587
	413	0.9262400	1.39729000	6.379
	414	1.1282744	1.40167844	5.838
	415	1.0867200	1.40283000	6.725
	416	1.5481951	1.40570605	7.314
	417	1.1346400	1.40598000	7.413
	418 419	1.4363378 1.0524900	1.41691518 1.42539000	5.920 6.929
	419	1.1832600	1.42559000	7.501
	420	1.1257500	1.42727000	6.901
	422	1.3877769	1.43092346	6.442
	423	1.3845654	1.43362653	6.422
	424	1.0961000	1.44015000	7.404
	425	0.9439700	1.44024000	6.218
	426	1.4964601	1.44163394	6.714
	427	1.1637400	1.44178000	7.526
	428	1.5402467	1.44357193	7.469
	429	1.1047600	1.44443000	7.313
	430	1.0977400	1.44787000	6.994
	431	1.0838300	1.45038000	7.119
##	432	1.0876400	1.45181000	7.291
##	433	1.3309500	1.45900000	7.522
##	434	1.4623127	1.46378076	6.891
##	435	1.0291200	1.46468000	7.339
##	436	1.4813490	1.47920442	7.316
##	437	1.6105740	1.48063302	7.504
##	438	1.5511216	1.48238301	7.522
##	439	1.1615700	1.48341000	6.907
##	440	1.5100420	1.48441494	7.284
##	441	1.4599450	1.48709726	7.006
##	442	1.4725204	1.48792338	6.951
##	443	1.3231105	1.48841226	6.087
	444	0.8482900	1.48953000	6.379
	445	1.4781622	1.49438727	7.284
	446	1.4289392	1.50394464	7.377
	447	1.0478200	1.50796000	7.104
	448	0.8702100	1.51070000	5.458
	449	1.0200000	1.52186000	6.798
	450	1.1452400	1.52733000	7.509
	451	1.2866776	1.53062356	6.344
	452	1.5582311	1.53570664	6.977
	453	1.4199206	1.54625928	6.993
	454	1.2627909	1.55167484	5.472
##	455	1.1659400	1.55422000	6.295

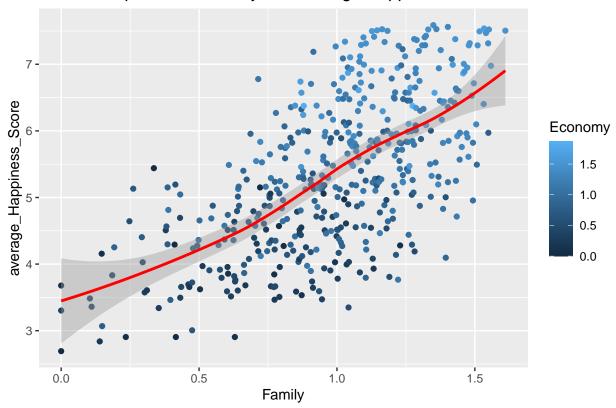
```
## 456
         1.2196300
                      1.56391000
                                                6.946
                                                7.494
## 457
         1.5169117
                      1.56497955
## 458
         0.8711400 1.57352000
                                                6.573
## 459
         1.1269000
                      1.57744000
                                                7.498
## 460
         1.5335236
                      1.61646318
                                                7.537
## 461
         0.8775800 1.61714000
                                                6.239
## 462
         1.2664102 1.62634337
                                                6.648
## 463
         1.2596987
                      1.63295245
                                                6.105
## 464
         0.8675800
                      1.64555000
                                                6.739
## 465
         1.0786000 1.69042000
                                                6.611
## 466
         1.3538144
                   1.69227767
                                                6.572
                      1.69752000
                                                6.871
## 467
         1.0399900
                    1.74194360
## 468
         1.4575837
                                                6.863
## 469
         0.8796400
                    1.82427000
                                                6.375
## 470
         1.2742969
                      1.87076569
                                                6.375
```

Plotting the graph

```
# Let's visualize the happiness score by Family
Total %>%
    group_by(Family,Economy) %>%
    summarise(average_Happiness_Score = mean(Happiness_Score)) %>%
    arrange(Family,Economy) %>% drop_na() %>%
    ggplot(aes(x = Family, y = average_Happiness_Score, fill = Economy, color = Economy)) +
    geom_point( position = "jitter") + geom_smooth(color = 'red') +
    labs(title = "Relationship between Family and Average Happiness Score")

## 'summarise()' has grouped output by 'Family'. You can override using the
## '.groups' argument.
## 'geom_smooth()' using method = 'loess' and formula 'y ~ x'
```

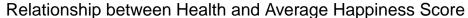
Relationship between Family and Average Happiness Score

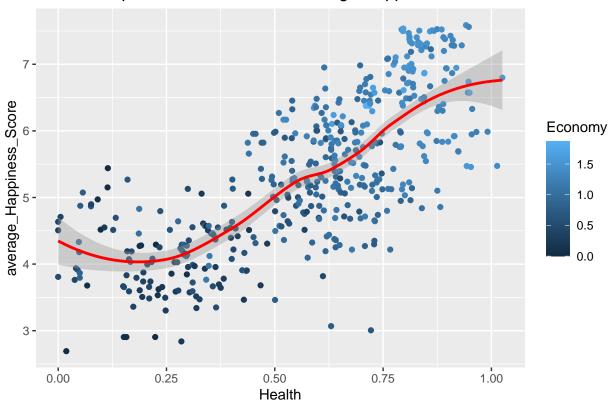


There is a positive correlation exist between Family and Average Happiness Score that is filled with different economy GDP size. Having more size and more economy are more happy.

```
# Let's visualize the happiness score by Health
Total %>%
  group_by(Health, Economy) %>%
  summarise(average_Happiness_Score = mean(Happiness_Score)) %>%
  arrange(Health, Economy) %>% drop_na() %>%
  ggplot(aes(x = Health, y = average_Happiness_Score, fill = Economy, color = Economy)) +
  geom_point( position = "jitter") + geom_smooth(color = 'red') +
  labs(title = "Relationship between Health and Average Happiness Score")
```

```
## 'summarise()' has grouped output by 'Health'. You can override using the
## '.groups' argument.
## 'geom_smooth()' using method = 'loess' and formula 'y ~ x'
```



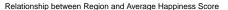


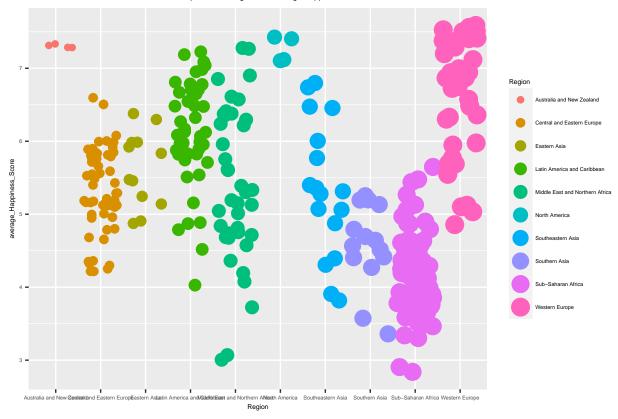
There is also a positive correlation between Health and Average Happiness Score that is filled with economy. Healthy individuals are more happy than others.

```
# Let's visualize the happiness score in relation to different regions
Total %>%
  group_by(Region, Happiness_Score) %>%
  summarise(average_Happiness_Score = mean(Happiness_Score)) %>%
  arrange(Region, Happiness_Score) %>% drop_na() %>%
  ggplot(aes(x = Region, y = average_Happiness_Score, color = Region, size = Region)) +
  geom_point(position = "jitter") +
  labs(title = "Relationship between Region and Average Happiness Score") +
  theme(text = element_text(size = 5), plot.title = element_text(hjust = 0.5))
```

```
\mbox{\tt \#\#} 'summarise()' has grouped output by 'Region'. You can override using the \mbox{\tt \#\#} '.groups' argument.
```

Warning: Using size for a discrete variable is not advised.

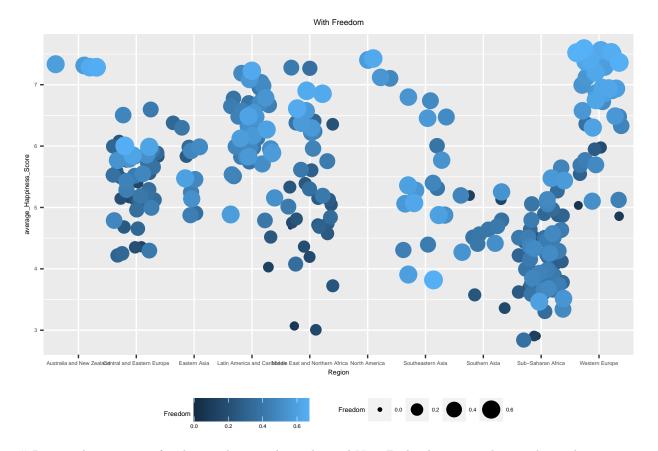




We have eaisly distinguish Happiness Score of a particular Region from others. So the highest Happiness Score are of Australia, New Zealand, North America and Western Europe.

```
# Let's visualize the happiness score in relation to different regions with respect to their freedom
Total %>%
  group_by(Freedom, Region) %>%
  summarise(average_Happiness_Score = mean(Happiness_Score)) %>%
  arrange(Freedom, Region) %>% drop_na() %>%
  ggplot(aes(x = Region, y = average_Happiness_Score, fill = Freedom, color = Freedom, size = Freedom))
  geom_point(position = "jitter") +
  labs(title = "With Freedom") +
  theme(legend.position = "bottom",text = element_text(size = 5), plot.title = element_text(hjust = 0.5)
```

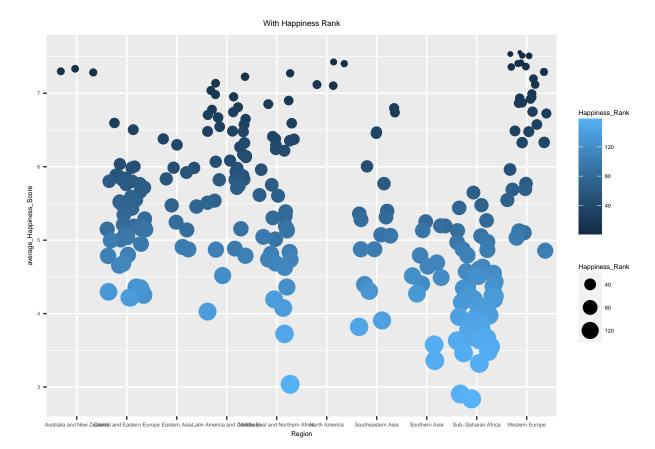
'summarise()' has grouped output by 'Freedom'. You can override using the
'.groups' argument.



Regions having more freedom scale as in Australia and New Zealand are more happy than others.

```
# Let's visualize the happiness score in relation to different regions
Total %>%
  group_by(Region, Happiness_Rank) %>%
  summarise(average_Happiness_Score = mean(Happiness_Score)) %>%
  arrange(Region, Happiness_Rank) %>% drop_na() %>%
  ggplot(aes(x = Region, y = average_Happiness_Score, color = Happiness_Rank, size = Happiness_Rank)) +
  geom_point(position = "jitter") +
  labs(title = "With Happiness Rank") +
  theme(text = element_text(size = 5), plot.title = element_text(hjust = 0.5))
```

'summarise()' has grouped output by 'Region'. You can override using the
'.groups' argument.



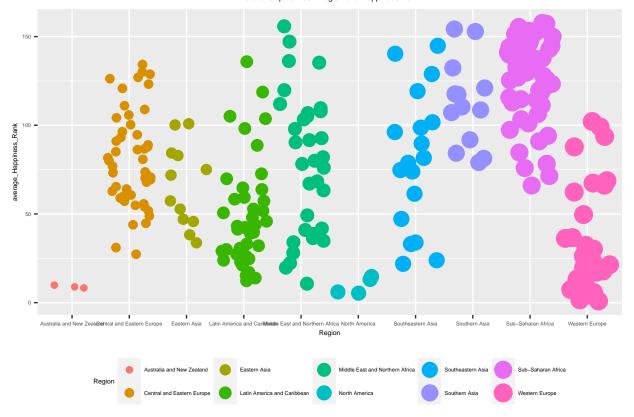
Lowest the Happiness Rank, more people are happy in the region as we are visualizing through plotting.

```
# Let's visualize the happiness rank in relation to different regions
Total %>%
  group_by(Region, Happiness_Rank) %>%
  summarise(average_Happiness_Rank = mean(Happiness_Rank)) %>%
  arrange(Region, Happiness_Rank) %>% drop_na() %>%
  ggplot(aes(x = Region, y = average_Happiness_Rank, fill = Region,color = Region, size = Region)) +
  geom_point(position = "jitter") +
  labs(title = "Relationship between Region and Happiness Rank") +
  theme(legend.position = "bottom",text = element_text(size = 5), plot.title = element_text(hjust = 0.5)
```

'summarise()' has grouped output by 'Region'. You can override using the
'.groups' argument.

Warning: Using size for a discrete variable is not advised.

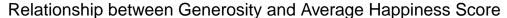
Relationship between Region and Happiness Rank

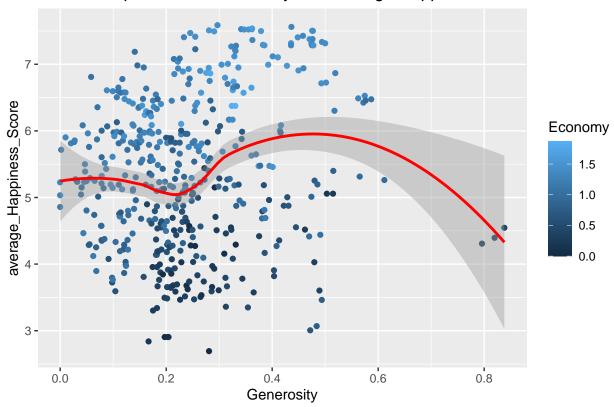


Australia, New Zealand, North America and Western Europe have lowest Rank and hence, these are the most happiest regions.

```
# Let's visualize the happiness score by Generosity
Total %>%
  group_by(Generosity, Economy) %>%
  summarise(average_Happiness_Score = mean(Happiness_Score)) %>%
  arrange(Generosity, Economy) %>% drop_na() %>%
  ggplot(aes(x = Generosity, y = average_Happiness_Score, fill = Economy, color = Economy)) +
  geom_point( position = "jitter") + geom_smooth(color = 'red') +
  labs(title = "Relationship between Generosity and Average Happiness Score")

## 'summarise()' has grouped output by 'Generosity'. You can override using the
## '.groups' argument.
## 'geom_smooth()' using method = 'loess' and formula 'y ~ x'
```



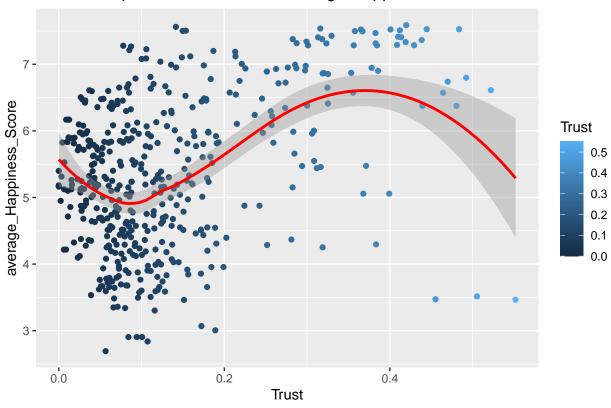


Having generosity of range 0.4-0.6 are more happy people then there is slight decline in happiness with increasing generosity.

```
# Let's visualize the happiness score by Trust
Total %>%
  group_by(Trust, Happiness_Score) %>%
  summarise(average_Happiness_Score = mean(Happiness_Score)) %>%
  arrange(Trust, Happiness_Score) %>% drop_na() %>%
  ggplot(aes(x = Trust, y = average_Happiness_Score, fill = Trust, color = Trust)) +
  geom_point( position = "jitter") + geom_smooth(color = 'red') +
  labs(title = "Relationship between Trust and Average Happiness Score")
```

```
## 'summarise()' has grouped output by 'Trust'. You can override using the
## '.groups' argument.
## 'geom_smooth()' using method = 'loess' and formula 'y ~ x'
```

Relationship between Trust and Average Happiness Score



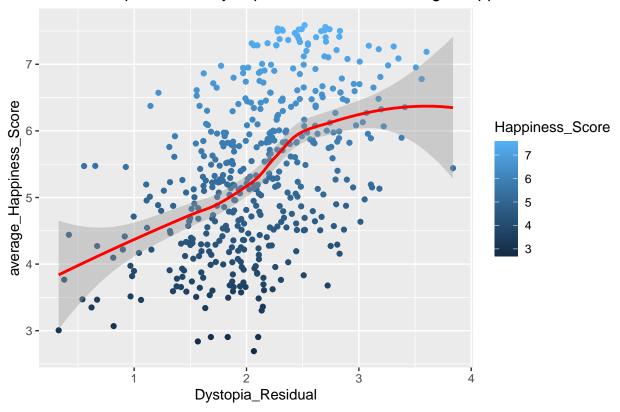
People having 0.3-0.5 scale of Trust are more happy than others.

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

```
# Let's visualize the happiness score by Dystopia Residual
Total %>%
  group_by(Dystopia_Residual, Happiness_Score) %>%
  summarise(average_Happiness_Score = mean(Happiness_Score)) %>%
  arrange(Dystopia_Residual, Happiness_Score) %>% drop_na() %>%
  ggplot(aes(x = Dystopia_Residual, y = average_Happiness_Score, fill = Happiness_Score, color = Happin
  geom_point( position = "jitter") + geom_smooth(color = 'red') +
  labs(title = "Relationship between Dystopia Residual and Average Happiness Score")

## 'summarise()' has grouped output by 'Dystopia_Residual'. You can override using
## the '.groups' argument.
```

Relationship between Dystopia Residual and Average Happiness Score



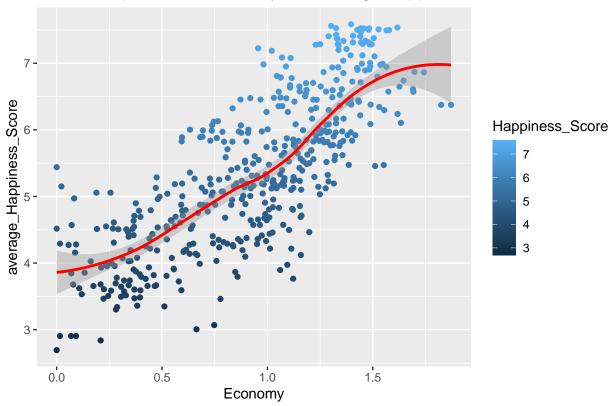
So, more dystopia residual means people are more happy and life would be more pleasant.

```
# Let's visualize the happiness score by Economy
Total %>%
    group_by(Happiness_Score, Economy) %>%
    summarise(average_Happiness_Score = mean(Happiness_Score)) %>%
    arrange(Happiness_Score, Economy) %>% drop_na() %>%
    ggplot(aes(x = Economy, y = average_Happiness_Score, fill = Happiness_Score, color = Happiness_Score)
    geom_point( position = "jitter") + geom_smooth(color = 'red') +
    labs(title = "Relationship between Economy and Average Happiness Score")

## 'summarise()' has grouped output by 'Happiness_Score'. You can override using
## the '.groups' argument.
```

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

Relationship between Economy and Average Happiness Score



More economy more happy the people are as it gives a positive correlation.