sandeephdi

Introduction

This package has been created to load the data from the Human Development Index (HDI) dataset of any country.

Loading the package

```
library(sandeephdi)
```

Loading the data

```
# we will load india and pakistan data
#df <- read_hdro_file("D:/1 UCD/3rd Semester/Advance Prog R/Assignment 1/hdro_indicators_pak.csv")
path1<-"D:/1 UCD/3rd Semester/Advance Prog R/Assignment 1/hdro_indicators_pak.csv"
path2<-"D:/1 UCD/3rd Semester/Advance Prog R/Assignment 1/hdro_indicators_ind.csv"
df_ind <- read_hdro_file(path2)
df_pak <- read_hdro_file(path1)
```

Printing the data

```
# first we will print the data of india

head(df_ind)
#> # A tibble: 6 × 8
#>   country_code country_name indicator_id indicator_name       index_id index_name
#>   <fct>        <fct>        <fct>        <fct>                <fct>    <fct>
#> 1 IND          India        abr          Adolescent Birth R… GII      Gender In…
#> 2 IND          India        abr          Adolescent Birth R… GII      Gender In…
#> 3 IND          India        abr          Adolescent Birth R… GII      Gender In…
#> 4 IND          India        abr          Adolescent Birth R… GII      Gender In…
#> 5 IND          India        abr          Adolescent Birth R… GII      Gender In…
#> 6 IND          India        abr          Adolescent Birth R… GII      Gender In…
#> # ℹ 2 more variables: value <dbl>, year <date>
cat("\n")
# now we will use the print
print(df_ind)
#> # A tibble: 905 × 8
#>   country_code country_name indicator_id indicator_name       index_id index_name
#>   <fct>        <fct>        <fct>        <fct>                <fct>    <fct>
#> 1 IND          India        abr          Adolescent Birth … GII      Gender In…
```

```
#>  2 IND          India        abr           Adolescent Birth … GII        Gender In…
#>  3 IND          India        abr           Adolescent Birth … GII        Gender In…
#>  4 IND          India        abr           Adolescent Birth … GII        Gender In…
#>  5 IND          India        abr           Adolescent Birth … GII        Gender In…
#>  6 IND          India        abr           Adolescent Birth … GII        Gender In…
#>  7 IND          India        abr           Adolescent Birth … GII        Gender In…
#>  8 IND          India        abr           Adolescent Birth … GII        Gender In…
#>  9 IND          India        abr           Adolescent Birth … GII        Gender In…
#> 10 IND          India        abr           Adolescent Birth … GII        Gender In…
#> # ℹ 895 more rows
#> # ℹ 2 more variables: value <dbl>, year <date>
```

```r
# similarly printing the data of pakistan
head(df_pak)
#> # A tibble: 6 × 8
#>   country_code country_name indicator_id indicator_name      index_id index_name
#>   <fct>        <fct>        <fct>        <fct>               <fct>    <fct>
#> 1 PAK          Pakistan     abr          Adolescent Birth R… GII      Gender In…
#> 2 PAK          Pakistan     abr          Adolescent Birth R… GII      Gender In…
#> 3 PAK          Pakistan     abr          Adolescent Birth R… GII      Gender In…
#> 4 PAK          Pakistan     abr          Adolescent Birth R… GII      Gender In…
#> 5 PAK          Pakistan     abr          Adolescent Birth R… GII      Gender In…
#> 6 PAK          Pakistan     abr          Adolescent Birth R… GII      Gender In…
#> # ℹ 2 more variables: value <dbl>, year <date>
cat("\n")
print(df_pak)
#> # A tibble: 905 × 8
#>   country_code country_name indicator_id indicator_name      index_id index_name
#>   <fct>        <fct>        <fct>        <fct>               <fct>    <fct>
#>  1 PAK          Pakistan     abr          Adolescent Birth … GII      Gender In…
#>  2 PAK          Pakistan     abr          Adolescent Birth … GII      Gender In…
#>  3 PAK          Pakistan     abr          Adolescent Birth … GII      Gender In…
#>  4 PAK          Pakistan     abr          Adolescent Birth … GII      Gender In…
#>  5 PAK          Pakistan     abr          Adolescent Birth … GII      Gender In…
#>  6 PAK          Pakistan     abr          Adolescent Birth … GII      Gender In…
#>  7 PAK          Pakistan     abr          Adolescent Birth … GII      Gender In…
#>  8 PAK          Pakistan     abr          Adolescent Birth … GII      Gender In…
#>  9 PAK          Pakistan     abr          Adolescent Birth … GII      Gender In…
#> 10 PAK          Pakistan     abr          Adolescent Birth … GII      Gender In…
#> # ℹ 895 more rows
#> # ℹ 2 more variables: value <dbl>, year <date>
```

Summary of the data

```r
# summary of the data of india
cat("Summary of India using summary function\n")
#> Summary of India using summary function
summary(df_ind)
```

```
#>    country_code country_name         indicator_id
#>    IND:905       India:905    abr           : 33
#>                               co2_prod      : 33
#>                               diff_hdi_phdi: 33
#>                               eys           : 33
#>                               eys_f         : 33
#>                               eys_m         : 33
#>                               (Other)       :707
#>                                                        indicator_name index_id
#>    Adolescent Birth Rate (births per 1,000 women ages 15-19): 33    GDI :331
#>    Carbon dioxide emissions per capita (production) (tonnes): 33    GII :265
#>    Difference from HDI value (%)                            : 33    HDI :133
#>    Expected Years of Schooling (years)                      : 33    IHDI: 65
#>    Expected Years of Schooling, female (years)              : 33    MPI : 11
#>    Expected Years of Schooling, male (years)                : 33    PHDI:100
#>    (Other)                                                  :707
#>                                               index_name        value
#>    Gender Development Index                         :331  Min.   :     0.069
#>    Gender Inequality Index                          :265  1st Qu.:     5.000
#>    Human Development Index                          :133  Median :    24.777
#>    Inequality-adjusted Human Development Index      : 65  Mean   :   441.766
#>    Multidimensional Poverty Index                   : 11  3rd Qu.:    70.117
#>    Planetary pressures-adjusted Human Development Index:100  Max.   :10696.448
#>
#>         year
#>    Min.   :1990-01-01
#>    1st Qu.:1998-01-01
#>    Median :2007-01-01
#>    Mean   :2006-10-19
#>    3rd Qu.:2015-01-01
#>    Max.   :2022-01-01
#>    NA's   :11
cat("\n")
# summary of the data of pakistan
cat("Summary of Pakistan using summary function\n")
#> Summary of Pakistan using summary function
summary(df_pak)
#>    country_code   country_name         indicator_id
#>    PAK:905       Pakistan:905   abr           : 33
#>                                 co2_prod      : 33
#>                                 diff_hdi_phdi: 33
#>                                 eys           : 33
#>                                 eys_f         : 33
#>                                 eys_m         : 33
#>                                 (Other)       :707
#>                                                        indicator_name index_id
#>    Adolescent Birth Rate (births per 1,000 women ages 15-19): 33    GDI :331
#>    Carbon dioxide emissions per capita (production) (tonnes): 33    GII :265
#>    Difference from HDI value (%)                            : 33    HDI :133
#>    Expected Years of Schooling (years)                      : 33    IHDI: 65
#>    Expected Years of Schooling, female (years)              : 33    MPI : 11
```

```
#>  Expected Years of Schooling, male (years)          : 33    PHDI:100
#>  (Other)                                             :707
#>                                            index_name       value
#>  Gender Development Index                      :331   Min.   :   0.192
#>  Gender Inequality Index                       :265   1st Qu.:   3.773
#>  Human Development Index                       :133   Median :  21.041
#>  Inequality-adjusted Human Development Index   : 65   Mean   : 452.831
#>  Multidimensional Poverty Index                : 11   3rd Qu.:  66.889
#>  Planetary pressures-adjusted Human Development Index:100   Max.   :8571.083
#>
#>       year
#>  Min.   :1990-01-01
#>  1st Qu.:1998-01-01
#>  Median :2007-01-01
#>  Mean   :2006-10-19
#>  3rd Qu.:2015-01-01
#>  Max.   :2022-01-01
#>  NA's   :11
```
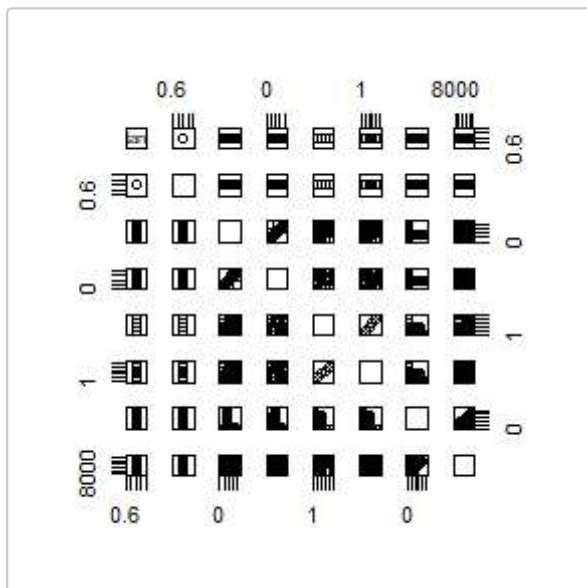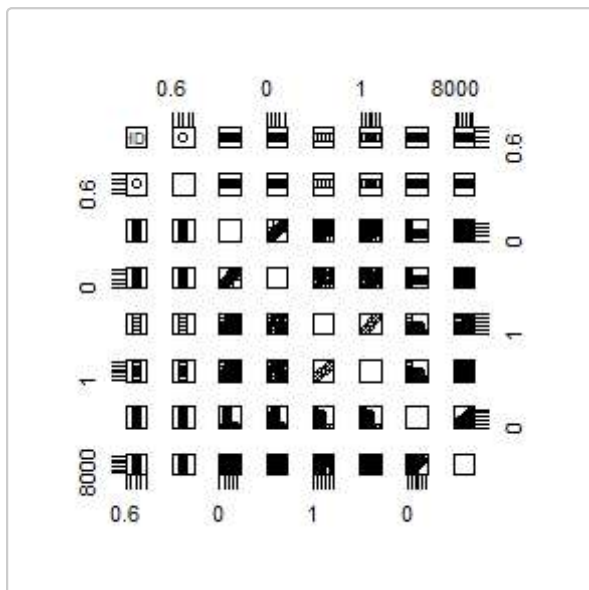
Plotting the data

```
# plotting the data of india
cat("Plotting the data of India\n")
#> Plotting the data of India
plot(df_ind, "Life Expectancy at Birth")
```
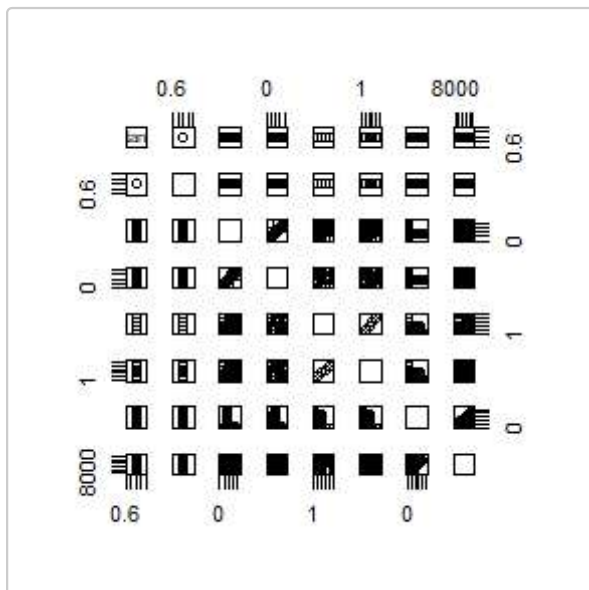


```
plot(df_ind, "HDI")
```

```
# plotting the data of pakistan
cat("Plotting the data of Pakistan\n")
#> Plotting the data of Pakistan
plot(df_ind, "Life Expectancy at Birth")
```



```
plot(df_ind, "HDI")
```