Our World in Data

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8/19/2021

Example of using Our World in Data

This package acts as an interface to Our World in Data datasets, allowing for an easy way to search through data used in over 3,000 charts and load them into the R environment.

The main function in owidR is `owid()`, which takes a chart id and returns a `tibble` (dataframe) of the corresponding OWID dataset. To search for chart ids you can use `owid_search()` to list all the chart ids that match a keyword or regular expression.

```
owid_search("human rights")
```

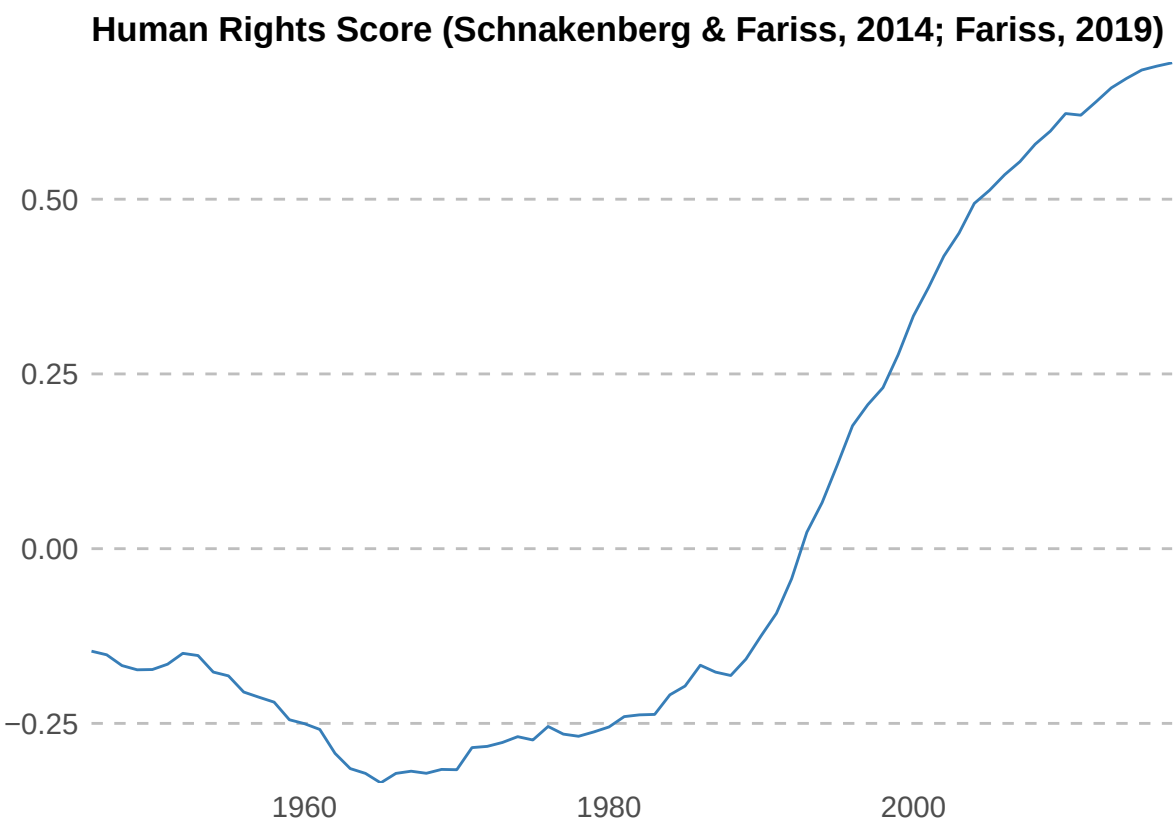
```
##      titles
## [1,] "Human Rights Score vs. Political regime type"
## [2,] "Political regime type vs. Human Rights Score"
## [3,] "Countries with National Human Rights Institutions in compliance with the Paris Principles"
## [4,] "Human Rights Score vs. GDP per capita"
## [5,] "Human Rights Scores"
## [6,] "Human Rights Violations"
## [7,] "Proportion of countries that applied for accreditation as independent National Human Rights Ins
##      chart_id
## [1,] "human-rights-score-vs-political-regime-type"
## [2,] "political-regime-type-vs-human-rights-score"
## [3,] "countries-in-compliance-with-paris-principles"
## [4,] "human-rights-score-vs-gdp-per-capita"
## [5,] "human-rights-scores"
## [6,] "human-rights-violations"
## [7,] "countries-that-applied-for-accreditation-in-paris-principles"
```

Let's use the human rights scores dataset.

```
rights <- owid("human-rights-scores")
```

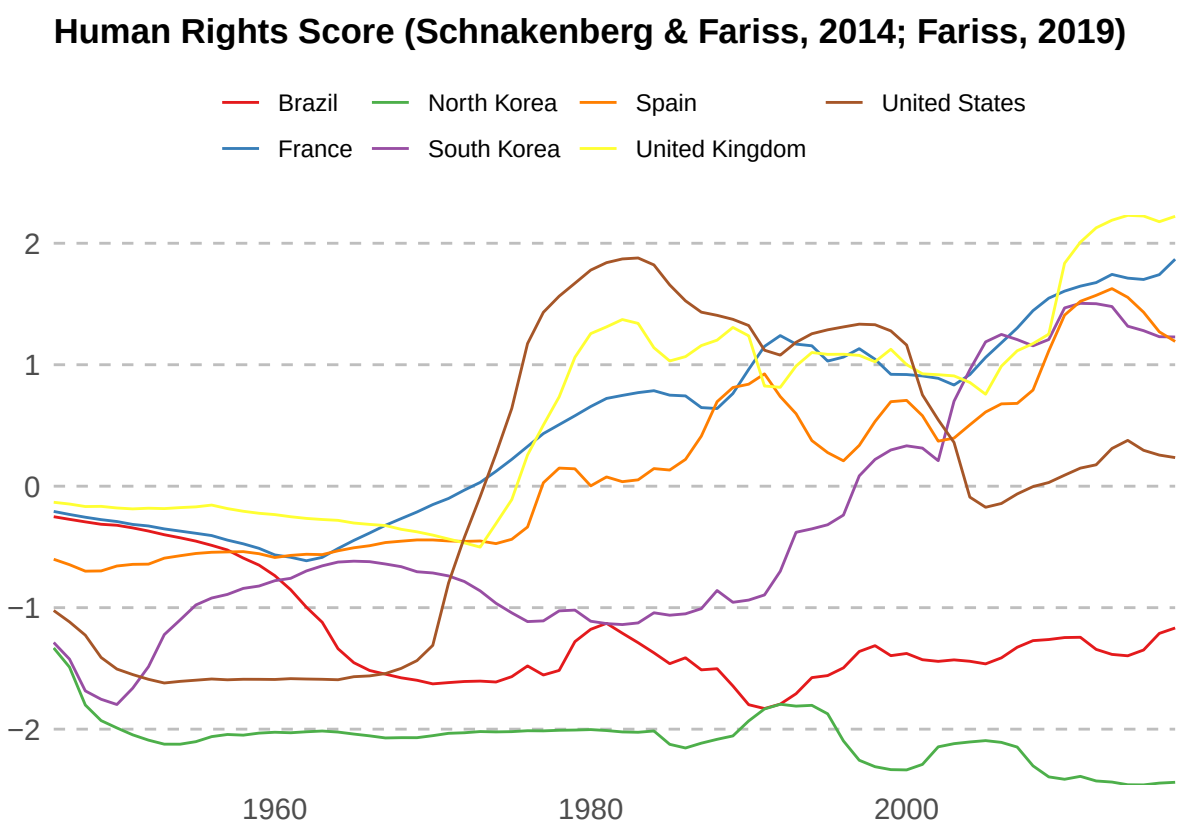
Including Plots

`owid_plot()` makes it easy to visualise an owid dataset, plotting the first value column of an owid dataset. By default the mean score across all countries is plotted.

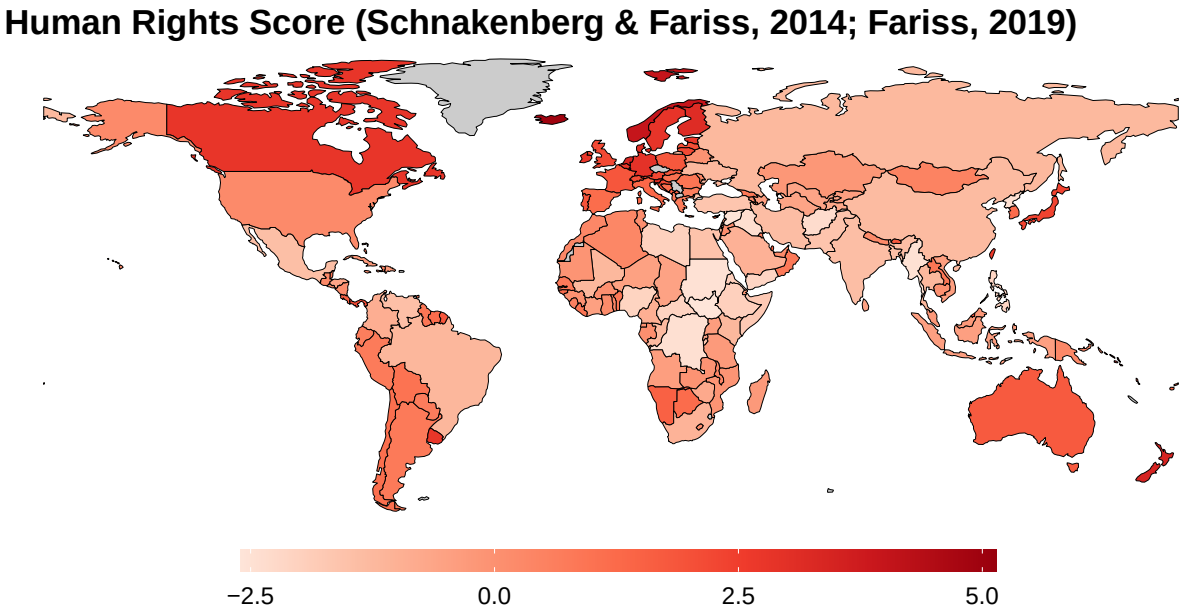


Use `summarise = FALSE` to show individual countries instead of the mean score. Unless a vector of entities is specified using the `filter` argument 9 random entities will be plotted. If the data is not a time-series then a bar chart of the entities values will be plotted.

```
owid_plot(rights, summarise = FALSE, filter = c("North Korea", "South Korea", "France", "United Kingdom
```



`owid_map()` makes it easy to create a choropleth world map of datasets that contain country level data. The Entities of the owid data must be country names. Currently the function plots data for the most recent year.



Creating Our World in Data style graphs

`owid_grapher()` creates graphs in the style of Our World in Data. The output of `owid_grapher()` can be piped into `grapher_line()` to add a line graph, into `grapher_map()` to add a world map, and into `grapher_labels()` to add labels to the graph. The graph is shown in the RStudio viewer, or when called in an RMarkdown html document is displayed within the document.

```
rights %>%
  owid_grapher(x = year, y = `Human Rights Score (Schnakenberg & Fariss, 2014; Fariss, 2019)`,
               entity = entity) %>%
  grapher_line(selected = c("North Korea", "South Korea", "France", "United Kingdom", "United States",
                            "Brazil","Spain")) %>%
  grapher_map(palette = "RdYlGn", bins = c(-2, 0, 2, 4)) %>%
  grapher_labels(title = "Human Rights Scores",
                 subtitle = "Values range from around -3.8 to around 5.4 (the higher the better)",
                 source = "Our World in Data; Schnakenberg and Fariss (2014); Fariss (2019)")
```

```
## <br>

## <iframe id="noazqccsrpzvffkwawgi" style="width: 100%; height: 600px; border: 0px none;" src="about:bl
##         <script>
##             document.getElementById("noazqccsrpzvffkwawgi").contentDocument.write(‘
## <!DOCTYPE html>
## <html>
##   <head>
##     <meta name="viewport" content="width=device-width, initial-scale=1" />
##     <link
```

```
##       href="https://fonts.googleapis.com/css?family=Lato:300,400,400i,700,700i|Playfair+Display:400,
##       rel="stylesheet"
##     />
##     <link
##       rel="stylesheet"
##       href="https://ourworldindata.org/assets/commons.css"
##     />
##     <link rel="stylesheet" href="https://ourworldindata.org/assets/owid.css" />
##     <meta property="og:image:width" content="850" />
##     <meta property="og:image:height" content="600" />
##     <script>
##       if (window != window.top)
##         document.documentElement.classList.add("IsInIframe");
##     <\/script>
##     <noscript
##       ><style>
##         figure {
##           display: none !important;
##         }
##       </style></noscript
##     >
##   </head>
##   <body class="StandaloneGrapherOrExplorerPage">
##     <main>
##       <figure data-grapher-src>
##       </figure>
##     </main>
##       <div class="site-tools"></div>
##       <script src="https://polyfill.io/v3/polyfill.min.js?features=es6,fetch,URL,IntersectionObserve
##       <script src="https://ourworldindata.org/assets/commons.js"><\/script>
##       <script src="https://ourworldindata.org/assets/owid.js"><\/script>
##       <script>
##         window.runSiteFooterScripts();
##       <\/script>
##     <script>
##       const jsonConfig = {map: {   "colorScale": {
##           "equalSizeBins": true,
##           "baseColorScheme": "RdYlGn",
##           "binningStrategy": "manual",
##           "customNumericColors": [null],
##           "customNumericLabels": [],
##           "customNumericValues": [-2, 0, 2, 4],
##           "customCategoryColors": {},
##           "customCategoryLabels": {},
##           "customHiddenCategories": {}
##         },
##         "projection": "World",
##         "targetYear": 2020}, "tab": "chart", "title": "Human Rights Scores", "subtitle": "Values rang
##   "owidDataset": {"variables": {"1": {"id": 1, "name": "dummy",
##   "years": [1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960
##   "entities": [1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
##   "values": [0.690479308, 0.739823195, 0.787034757, 0.816707364, 0.850675446, 0.909389217, 0.9380648
##   "display": {}}},
##   "entityKey": {"1": {"id": 1, "name": "Afghanistan"}, "2": {"id": 2, "name": "Albania"}, "3": {"id"
```

```
##       window.Grapher.renderSingleGrapherOnGrapherPage(jsonConfig);
##     <\/script>
##   </body>
## </html>
## ')
##         </script>
```