Get an Overview with overviewR: : CHEAT SHEET

Generate Tables

overview_tab generates a data frame that collapses the time condition for each id by taking into account potential gaps in the time frame

id	time	Var1	Var2
A	1990		
A	1991		
A	1992		
B	1990		

→

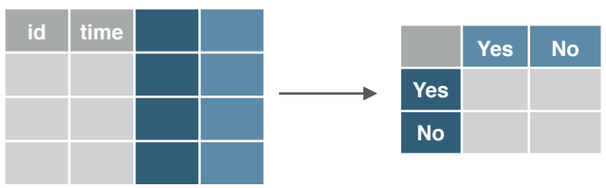
id	time
A	1990 - 1992
B	1990

```
output_table <-
overview_tab(
  dat = toydata,
  id = ccode,
  time = year)
```

add data frame

define your time and scope variables

overview_crosstab generates a cross table that divides the data based on two conditions




```
output_crosstab <-
overview_crosstab(
    dat = toydata,
    cond1 = gdp,
    cond2 = population,
    threshold1 = 25000,
    threshold2 = 27000,
    id = ccode,
    time = year
  )
```

define your conditions with cond1 and cond2

set your thresholds

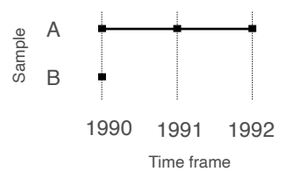
Note, if a data set is used that has multiple observations on the id-time unit, the function automatically aggregates the data set using the mean of condition 1 (**cond1**) and condition 2 (**cond2**).

If you store your results in an object, you can use **overview_print** to export them to a LaTeX output.

Generate Plots

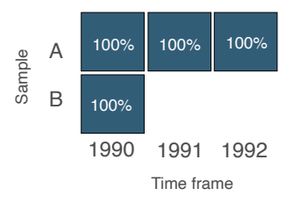
Sample overview

overview_plot illustrates the information that is generated in overview_table in a ggplot2 graphic




```
overview_plot(
     dat = toydata,
     id = ccode,
     time = year)
```

overview_heat is similar to overview_plot but presents the frequency of data points by id-time-unit in a heat map



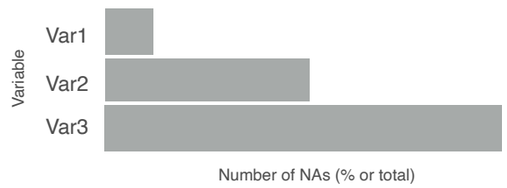

```
overview_heat(
     dat = toydata,
     id = ccode,
     time = year,
     perc = TRUE,
     exp_total = 12)
```

displays percentage

max observations by id-time unit

Missing values (NAs)

overview_na returns a horizontal ggplot2 bar plot that indicates the amount of missing data (NAs) for each variable




```
overview_na(toydata_with_na)
```

relative distribution

```
overview_na(toydata_with_na,
            perc = FALSE)
```

FALSE gives total number

Export Results

Tables

overview_print generates a LaTeX output (works with both overview_tab and overview_crosstab output)

```
overview_print(
     obj = output_table)
```

```
overview_print(
     obj = output_crosstab,
     crosstab = TRUE)
```

TRUE for cross tables

The table can be modified with the **title**, **id**, **time**, **cond1**, and **cond2** arguments to replace default names

It also allows to save your output in a .tex file

```
overview_print(
   obj = output_table,
   save_out = TRUE,
   path = "SET-YOUR-PATH",
   file = "output.tex")
```

define where your output should be stored

The outputs of **overview_tab** and **overview_crosstab** are also compatible with other packages and functions such as **xtable**, **flextable**, or **kable** from **knitr**.

To generate a table in Rmarkdown with **knitr::kable**:

```
knitr::kable(output_table)
```

Plots

As the plots are based on ggplot2, plots can be stored with **ggplot2::ggsave**

```
ggplot2::ggsave(
     output_plot,
     filename = "FILENAME.png")
```

add plot object

add filename

Alternatively, storing the object also works this way:

```
png("FILENAME.png")

output_plot

dev.off()
```