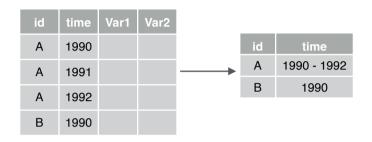
Get an Overview with overviewR:: CHEAT SHEET



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



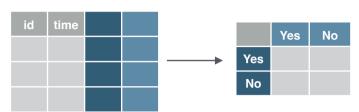
```
output_table <-
overview_tab(
  dat = toydata,
  id = ccode,
  time = year)</pre>
add data
frame
define your time
and scope
variables
```

It also works with multiple time arguments (day, month, and year)

id	year	month	day	Var1	Var2			
Α	1990	3	1				id	time
Α	1990	3	2				Α	1990-03-01 - 1990-03-03
Α	1990	3	3				В	1991-04-10
В	1991	4	10			Б	Ь	1991-04-10

overview_tab and overview_na can also handle
data.table objects (all other functions currently only with
data.frames) to increase the performance on larger data
sets

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
)</pre>
define your
   conditions with
   cond1 and cond2
set your
   thresholds
```

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).

Workflows

All **overviewR** functions can be easily integrated in the **tidyverse**.

```
toydata %>%
  dplyr::filter(year > 1993) %>%
  overview_na()
```

The example shows how to filter or wrangle data before calling **overview_na**.

To change the visual appearance of plots, the user can rely on **ggplot2** layering logic.

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
filename
```

Alternatively, storing the object also works this way:

```
png("FILENAME.png")
output_plot
dev.off()
```

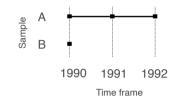
Get an Overview with overviewR:: CHEAT SHEET



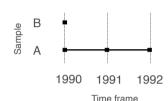
Generate Plots

Sample overview

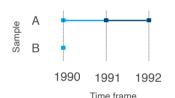
overview_plot illustrates the information that is generated in overview_tab in a ggplot2 graphic



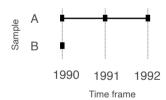
```
overview_plot(
   dat = toydata,
   id = ccode,
   time = year)
```



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

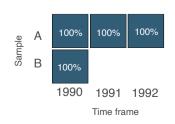


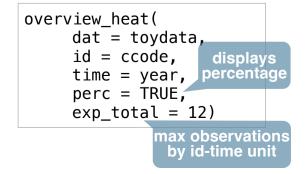
```
overview_plot(
    dat = toydata,
    id = ccode,
    time = year,
    color = before)
Add
variable to
identify
time
periods
```



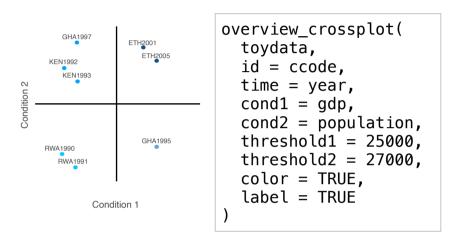
```
overview_plot(
    dat = toydata,
    id = ccode,
    time = year,
    dot_size = 5)
```

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

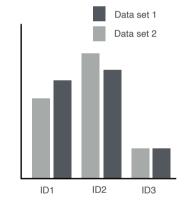


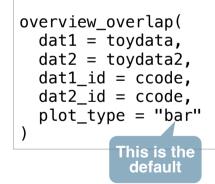


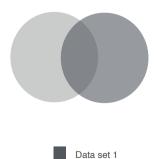
overview_crossplot allows to illustrate similar information as presented in a cross table (overview_crosstab)

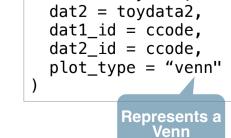


overview_overlap plots the overlap between two data sets









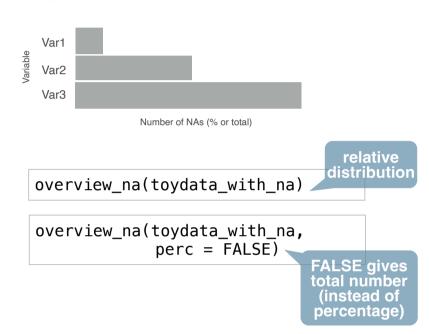
diagramm

overview overlap(

dat1 = toydata,

Missing values (NAs)

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



It also allows you to plot the NAs row-wise. This can be helpful when looking at survey data where each respondent is represented in a row. Using this function then helps to understand the share of unit or item non-responses.

