

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

id	time		

→

	Yes	No
Yes		
No		

```
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

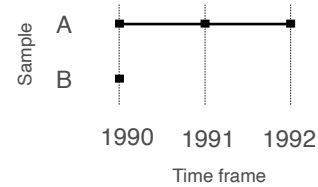
Note, if a data set is used that has multiple observations on the id-time unit, the function automatically aggregates the data set using the mean of condition 1 (**cond1**) and condition 2 (**cond2**).

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

Generate Plots

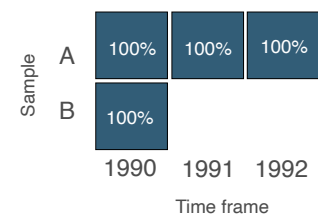
Sample overview

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



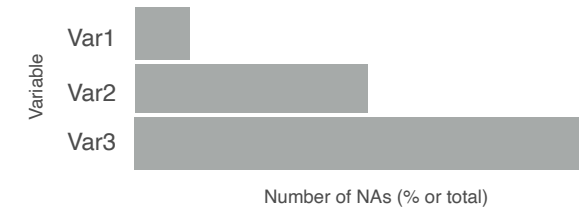
```
overview_heat(  
  dat = toydata,  
  id = ccode,  
  time = year,  
  perc = TRUE,  
  exp_total = 12)
```

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



relative distribution

```
overview_na(toydata_with_na)
```

```
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()
```