gtsummary :: CHEAT SHEET

Summary table and regression model or generate inline reports

Installation

gtsummary requires gt package to work properly So make sure to install gt before using gtsummary

```
# install gt
install.packages('remotes')
remotes::install_github('rstudio/gt')

# install gtsummary from CRAN
install.packages('gtsummary')

# or development version from github
Remotes::install_github('ddsjoberg/gtsummary')
```

Example data - trial

gtsummary includes results from simulated study of two chemotherapy agents: Drug A / Drug B

?trial

trt	age	makrer	stage	grade	response	death
chr	dbl	dbl	fct	fct	int	int

Quick Start (tbl_summary)

```
library(dplyr)
library(gtsummary)

trial2 <-
    trial %>% select(trt, age, grade, response)

table1 <- tbl_summary(trial2)

table2 <- tbl_summary(trial2,
    by = trt, # split table by trt group
    missing = "no" # don't list missing data
) %>%
    add_n() %>% # add column with count
    add_p() %>% # add p-value between groups
    bold_labels()
```

Quick Start (tbl_regression)

```
library(survival)
# build regression model
mod1 <- glm(response ~ trt + age + grade, trial,
family = binomial)

t1 <- tbl_regression(mod1, exponentiate = TRUE)

# build survival model table
t2 <- coxph(Surv(ttdeath, death) ~
    trt + grade + age, trial) %>%
    tbl_regression(exponentiate = TRUE)

# merge tables
tbl_merge_ex1 <- tbl_merge(
    tbls = list(t1, t2),
    tab_spanner = c("**Tumor Response**", "**Time to Death**")</pre>
```



tbl_merge_ex1

en	Tumor Response			Time to Death		
Characteristic	OR ¹	95% CI ¹	p-value	HR ¹	95% CI ¹	p-value
Chemotherapy Treatment						
Drug A	_	_		_	_	
Drug B	1.13	0.60, 2.13	0.7	1.30	0.88, 1.92	0.2
Age, yrs	1.02	1.00, 1.04	0.10	1.01	0.99, 1.02	0.3
Grade						
I	_	_		_	_	
II	0.85	0.39, 1.85	0.7	1.21	0.73, 1.99	0.5
III	1.01	0.47, 2.15	>0.9	1.79	1.12, 2.86	0.014

Grouped by **trt** and added N, p-value



Characteristic [†] N = 200				
Chemotherapy Treatment				
Drug A	98 (49%)			
Drug B	102 (51%)			
Age, yrs	47 (38, 57)			
Unknown	11			
Grade				
I	68 (34%)			
II	68 (34%)			
III	64 (32%)			
Tumor Response	61 (32%)			
Unknown	7			
¹ Statistics presented: n (%); r	nedian (IQR)			

table2

Characteristic ¹	N	Drug A , N = 98	Drug B , N = 102	p-value ²
Age, yrs	189	46 (37, 59)	48 (39, 56)	0.7
Grade	200			0.9
1		35 (36%)	33 (32%)	
II		32 (33%)	36 (35%)	
III		31 (32%)	33 (32%)	
Tumor Response	193	28 (29%)	33 (34%)	0.6

¹ Statistics presented: median (IQR); n (%)

² Statistical tests performed: Wilcoxon rank-sum test; chi-square test of independence

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Summary table and regression model or generate inline reports

Summary Functions

For create & modify data summary tables

- tbl_summary()
- add p()
- add_overall()
- add_n()
- add_stat_label()
- add_q() [with tbl_summary]
- tbl_survival() [with survfit]

For format regression model results

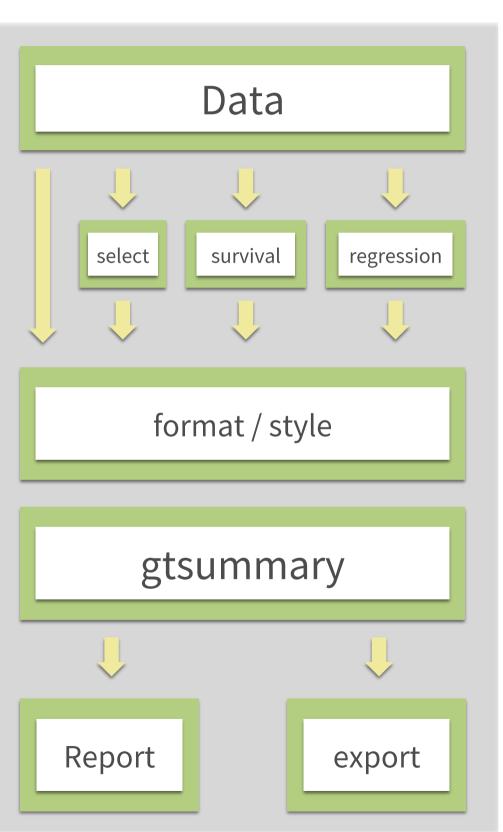
- tbl_regression()
- add_global_p() [with tbl_regression]
- add_nevent() [with tbl_regression]
- tbl_uvregression()
- add_global_p() [with tbl_uvregression]
- add nevent() [with tbl uvregression]
- add_q() [with tbl_uvregression]

Report Functions

For report result inline in Rmarkdown

- inline_text [with tbl_summary]
- inline_text [with tbl_survival]
- inline_text [with tbl_regression]
- inline_text [with tbl_uvregression]

Workflow



General Functions

For modify table view

- tbl_merge()
- tbl_stack()
- modify_header()
- style_percent()
- style_pvalue()
- style_sigfig()
- style_ratio()
- bold labels(), italicize labels()
- bold_levels(), italicize_levels()
- bold_p()
- sort_p()
- as_tibble()
- as_kable()
- as_gt()

Select Functions

For select group of variables

all_*
 character, integer,
 double, logical, continuous,
 categorical, dichotomous