* **Working directory**

**getwd()** # Shows the working directory (wd)

**setwd(choose.dir())** # Select the working directory interactively

**setwd**("C:/myfolder/data") # Changes the wd

**setwd**("H:\\myfolder\\data") # Changes the w

* **Data from \*.csv (interactively)**

**mydata** <- read.csv(file.choose(), header = TRUE)

* **Creating directories/downloading from the internet**

**dir()** # Lists files in the working directory

**dir.create**("C:/test") # Creates folder ‘test’ in drive ‘c:’

**setwd**("C:/test") # Changes the working directory to “c:/test”

# Download file ‘students.csv’ from the internet. **download.file**("http://dss.princeton.edu/training/students.xls", "C:/test/students.xls", method="auto", quiet=FALSE, mode = "wb", cacheOK = TRUE

[**Export R data to csv**](https://stackoverflow.com/questions/62006325/export-r-data-to-csv)

**write.csv**(df, "specify\_path\_and\_file\_name.csv")

**Summary table in R**

[install.packages](https://rdrr.io/r/utils/install.packages.html)("gtsummary")

library(gtsummary)

# summarize the data with our package

table1 <-

trial |>

**tbl\_summary**(include = c(age, grade, response))

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table2 <-

**tbl\_summary**(

trial,

include = c(age, grade, response),

by = trt, # split table by group

missing = "no" # don't list missing data separately

) |>

add\_n() |> # add column with total number of non-missing observations

add\_p() |> # test for a difference between groups

modify\_header(label = "\*\*Variable\*\*") |> # update the column header

bold\_labels()

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Regression Models

Use [tbl\_regression()](https://www.danieldsjoberg.com/gtsummary/reference/tbl_regression.html) to easily and beautifully display regression model results in a table. See the [tutorial](https://www.danieldsjoberg.com/gtsummary/articles/tbl_regression.html) for customization options.

mod1 <- [glm](https://rdrr.io/r/stats/glm.html)(response ~ trt + age + grade, trial, family = binomial)

t1 <- [**tbl\_regression**](https://www.danieldsjoberg.com/gtsummary/reference/tbl_regression.html)(mod1, exponentiate = TRUE)

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Side-by-side Regression Models

You can also present side-by-side regression model results using [tbl\_merge()](https://www.danieldsjoberg.com/gtsummary/reference/tbl_merge.html)

[library](https://rdrr.io/r/base/library.html)([survival](https://github.com/therneau/survival))

# build survival model table

t2 <-

[coxph](https://rdrr.io/pkg/survival/man/coxph.html)([Surv](https://rdrr.io/pkg/survival/man/Surv.html)(ttdeath, death) ~ trt + grade + age, trial) |>

[**tbl\_regression**](https://www.danieldsjoberg.com/gtsummary/reference/tbl_regression.html)(exponentiate = TRUE)

# merge tables

tbl\_merge\_ex1 <-

[tbl\_merge](https://www.danieldsjoberg.com/gtsummary/reference/tbl_merge.html)(

tbls = [list](https://rdrr.io/r/base/list.html)(t1, t2),

tab\_spanner = [c](https://rdrr.io/r/base/c.html)("\*\*Tumor Response\*\*", "\*\*Time to Death\*\*")

)

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