INT_PROG (R) :: CHEATSHEET

> print(data)

	col1	col2	col3	col4
1	1	Α	Manzana	TRUE
2	2	В	Banana	FALSE
3	3	C	Cereza	TRUE
4	4	Α	Damasco	TRUE
5	5	В	Uva	FALSE

> str(data)

```
'data.frame': 5 obs. of 4 variables:
$ col1: num 12345
$ col2: Factor w/ 3 levels "A", "B", "C": 1 2 3 1 2
$ col3: chr "Manzana" "Banana" "Cereza" "Damasco'
$ col4: logi TRUE FALSE TRUE TRUE FALSE
```

> summarise(data, nombre = max(col1))

Summarise data into single row of values

> count(data, col3)

Count number of rows with each unique value of variable (with or without weights)

> group by(data, col2)

Group data into rows with the same value of Species

> ungroup(data)

Remove grouping information from data frame

> mutate(data, nombre = col1 * 2)

Compute and append/replace one or more columns

> filter(data, col4 == FALSE)

Extract rows that meet logical criteria

> distinct(data)

Remove duplicate rows

> sample_n(data, 10, replace = TRUE)

Randomly select n rows

> select(data, col1, col3)

Select columns by name or helper function

> separate(data, col3, c("coln1","coln2"), sep=...)

Separate one column into several

> unite(data, nombre, c(col1,col2, sep=...)

Unite several columns into one

> arrange(data, col1)

Order rows by values of a column

> rename(data, wcol = col1)

Rename the columns of a data frame

> rename(data, wcol = col1)

Rename the columns of a data frame

> pivot longer(data, c(col1,col4))

"Lengthen" data by collapsing several columns into two. Column names move to a new "name" column and values to a new "value" column

> pivot wider(data, "name", "value")

"Widen" data by expanding two columns into several. One column provides the new column names, the other the values

> replace_na(data, 0)

Specify a value to replace NA in selected columns

> top n(data, 2, col1)

> slice max(data, 2, n=col1)

Select and order top n entries

> ggplot(data, aes(x = col1, y = col2), ...)

Begins a plot that you finish by adding layers to. Add one geom function per layer

Aesthetics: x, y, color, fill, shape, group, linetype, size, label, ...

> ... + geom_X()





text



line





col histogram



point









boxplot bar hline tile density vline abline

> ...+ facet_wrap(~ col2)

> ...+ facet_grid(~ col2)

Wrap facets into a rectangular layout

> ... + labs(x = "X", y = "Y", title ="Title", subtitle = "Subtitle", caption = "Caption", alt = "Alt", ...) *Label the elements of plot*

> ... + scale X Y()

X = x, y, color, fill, linetype, shape, ... Y = discrete, continuous, manual, gradient,

Set scales of plot

> ... + coord flip()

Flip cartesian coordinates by switching x and y aesthetic mappings

> str_detect(string, pattern)

Detect the presence of a pattern match in a string

> str_which(string, pattern)

Find the indexes of strings that contain a pattern match

> str count(string, pattern)

Count the number of matches in a string

> str_sub(string, start = 1, end = 1)

Extract substrings from a character vector

> str_extract(string, pattern)

Return the first NA pattern match found in each string, as a vector

> str match(string, pattern)

Return the first pattern match found in each string, as a matrix with a column for each group in pattern

> str length(string)

The width of strings

> str_to_lower(string)

> str_to_upper(string)

Convert strings to lower/upper case

> str c(..., sep = "", collapse = "")

Join multiple strings into a single string

> str split(string, pattern)

Split a vector of strings into a list of substrings