Day 3 Cheatsheet

Subsetting Data in R

Functions

Library/Package	Piece of code	Example of usage	What it does
Base R	nrow(x); ncol(x)	<pre>nrow(x); ncol(x)</pre>	Get the number of rows and the number of columns in an object x, respectively.
Base R	dim(x)	dim(x)	Get the number of rows and number of columns in an object x
dplyr	glimpse(x)	<pre>glimpse(mtcars)</pre>	Get an overview of data frame x
dplyr	<pre>slice_sample(x)</pre>	<pre>slice_sample(mtcars)</pre>	See a random subset of the rows of x
Base R	<pre>data.frame()</pre>	<pre>df <- data.frame(1:3)</pre>	Creates a data frame where the named arguments will be the same length.
Base R	tibble()	tibble(mtcars)	Creates a tibble from a data frame or matrix.
tibble	<pre>column_to_rownames()</pre>	<pre>df <- df %>% column_to_rownames('existing_v</pre>	Transforms an existing ariablemmanelled by a string into the rownames.
tibble	rownames_to_column()	df <- df %>% Transforms the rownames of a column_to_rownames('new_variable_mlame'f)rame into a column	
			(which is added to the start of the data frame). The string supplied as an argument will be the name of the new column.
dplyr	rename()	<pre>df <- rename(df, MPG = mpg)</pre>	Renames designated columns while keeping all variables of the data.frame
dplyr	pull()	<pre>pull(df, 'existing_variable_name')</pre>	Extract a column as a vector
dplyr	select()	<pre>select(df, 'existing_variable_name')</pre>	Selects columns that match the specified argument

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dplyr	filter()	filter(df, mpg > 20)	Returns a subset of rows matching the conditions of the specified logical argument
Base R	==, <=, >=, !=	filter(df, mpg > 20)	These are binary operators which allow for the comparison of values in an object. They are handy for use with filter()
Base R	%in%	filter(df, mpg %in% c(20,21,22))	Checks if the given value(s) on the left side of the operator are in the vector or other R object defined on the right side of the operator. It returns a logical TRUE or FALSE statement.
dplyr	%>%	<pre>df <- df %>% select('new_variable_name')</pre>	Funnels a data.frame through tidyverse operations
dplyr	mutate()	<pre>df <- mutate(df, newcol = wt/2.2)</pre>	Adds a new column that is a function of existing columns
dplyr	relocate()	<pre>df_carb <- relocate(.data = df, wt, .before = mpg)</pre>	Reorder columns in a data frame or tibble
dplyr	arrange()	<pre>df <- arrange(df, mpg)</pre>	Reorders rows in ascending order. arrange(desc()) would reorder rows in descending order.
dplyr	case_when()	<pre>df <- arrange(df, mpg)</pre>	This function allows you to vectorize multiple if_else() statements. If no cases match, NA is returned.
Base R	colnames()	colnames(df)	Gets or sets the column names of a matrix or data frame.

[•] See tidyselect helpers for handy things to use with select().

^{*} This format was adapted from the cheatsheet format from AlexsLemonade.