

# Day 3 Cheatsheet

## Subsetting Data in R

### Functions

Library/Package	Piece of code	Example of usage	What it does
Base R	<code>nrow(x); ncol(x)</code>	<code>nrow(x); ncol(x)</code>	Get the number of rows and the number of columns in an object <code>x</code> , respectively.
Base R	<code>dim(x)</code>	<code>dim(x)</code>	Get the number of rows <i>and</i> number of columns in an object <code>x</code>
dplyr	<code>glimpse(x)</code>	<code>glimpse(mtcars)</code>	Get an overview of data frame <code>x</code>
dplyr	<code>slice_sample(x)</code>	<code>slice_sample(mtcars)</code>	See a random subset of the rows of <code>x</code>
Base R	<code>data.frame()</code>	<code>df &lt;- data.frame(1:3)</code>	Creates a data frame where the named arguments will be the same length.
Base R	<code>tibble()</code>	<code>tibble(mtcars)</code>	Creates a tibble from a data.frame or matrix.
tibble	<code>column_to_rownames()</code>	<code>df &lt;- df %&gt;% column_to_rownames('existing_variable_name')</code>	Transforms an existing column into the rownames.
tibble	<code>rownames_to_column()</code>	<code>df &lt;- df %&gt;% rownames_to_column('new_variable_name')</code>	Transforms the rownames of a data frame 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	<code>rename()</code>	<code>df &lt;- rename(df, MPG = mpg)</code>	Renames designated columns while keeping all variables of the data.frame
dplyr	<code>pull()</code>	<code>pull(df, 'existing_variable_name')</code>	Extract a column as a vector
dplyr	<code>select()</code>	<code>select(df, 'existing_variable_name')</code>	Selects columns that match the specified argument
dplyr	<code>filter()</code>	<code>filter(df, mpg &gt; 20)</code>	Returns a subset of rows matching the conditions of the specified logical argument

