

R Workshop Cheatsheet

Rstudio Commands	shortcut	What is does
<code><-</code>	ctrl/alt + '-'	Assignment operator, "=" sign
<code>%>%</code>	ctrl/cmd + shift + m	Pipe function, effectively a "then" statement
comment	ctrl/cmd + shift + c	Annotating your code
new section	ctrl/cmd + shift + r	Creating a new section
new code chunk	alt + ctrl/cmd + i	Create new code chunk

tidyverse	shortcut	general formula
read_csv	read .csv file	<code>read_csv("your_file.csv")</code>
write_csv	create .csv file	<code>write_csv(dataframe, "your_new_file.csv")</code>
gather	wide -> long	<code>gather(category, numerical, x:z)</code>
spread	long -> wide	<code>spread(category, numerical,)</code>
separate	split column into multiple columns	<code>separate(date, into = c("month", "day", "year"), sep = "_")</code>
unite	merge multiple columns	<code>unite(month_day, month, day, sep = "_")</code>
filter	pick specific values	<code>filter(gene == "SOX2")</code> <code>filter(gene %in% c("SOX2", "OCT4"))</code>
select	pick specific	<code>select(genus, species, genes)</code>

	columns	
arrange	sort column names	<code>arrange(column)</code> <code>arrange(desc(column))</code>
rename	change column values	<code>rename(new_name = old_name)</code>
mutate	create new column from existing data	<code>mutate(log2_value= log2(value))</code> <code>mutate(new_column = col_A - col_B)</code>
group_by	'lock-in' by variables	<code>group_by(dose,date,treatment)</code>
summarise/summarize	aggregate data	<code>summarise(avg_value = mean(value))</code>

Markdown

An elegant way to format text using plain text. Use this to format R markdown documents.

Markdown editors

Windows - markdowndownpad

MacOS - macdown

What	Input	Output
Bold	<code>**Your Text Here**</code> or <code>__Your Text Here__</code>	Your Text Here
Italics	<code>*Your Text Here*</code> or <code>_Your Text Here_</code>	<i>Your Text Here</i>
Bold and Italics	<code>***Your Text Here***</code>	<i>Your Text Here</i>

`# Biggest header`

Biggest header

`## Big header`

Big header

`### Smaller header`

Smaller header

`#### Even smaller`

Even smaller