Tidyverse Cheat Sheet

I want to …		Example Code	Pkg
Read in data	- Read in a CSV, TSV, or other delimited file	**read_csv**("filepath"), **read_tsv**("filepath")	tidyverse
		read_delim("filepath ", "delim")	tidyverse
		read_excel("filepath ")	readxl
Combine data	- Stack tibbles on top of each other	**bind_rows**(list or vector of what to bind)	tidyverse
	- Combine tibbles side by side	**bind_cols**(list of vector of what to bind)	tidyverse
	- Combine tibbles with a common column that uniquely identifies each row	**full_join(), left_join, etc**	tidyverse
View data	- View tibble structure and data types of columns	**str(**nameOfTibble**)**	tidyverse
	- View tibble in new tab, R Studio only	**view(**nameOfTibble**)**	tidyverse
Manipulate tibble columns	- Standardize column names	**clean_names()**	janitor
	- Add column	**mutate()**	tidyverse
	- within mutate(), recode row values within a column	**recode**(column name, key)	tidyverse
	- within mutate(), recode row values within a column	**case_when**(statement 1, statement 2, …)	tidyverse
	- within mutate(), change data type to factor	**as_factor()**	
	- Merge multiple columns together by pasting strings together	**unite**(data, vector of column names, joining character, TRUE to remove used columns)	tidyverse
	- Separate single column into multiple columns	**separate**()	tidyverse
	- Rename a column	**rename**(data, new name = old name)	tidyverse
	- Remove or reorder columns	**select()**	tidyverse
	- Helper functions for specifying which tibble columns to modify	**starts_with**("pattern")	tidyverse
		ends_with("match")	tidyverse
		contains("match")	tidyverse
Manipulate tibble rows	- Remove some of the rows using values from columns	**filter**(data, by)	tidyverse
	- Sort tibble rows by column values	**arrange**(data, column)	tidyverse
	- Group rows by column values	**group_by**(data, variables or computations to group by)	tidyverse
	- Remove groupings	**ungroup(**columns**)**	tidyverse
Manipulate tibble rows and columns simultaneously	- Combine data rows within groups, creating a new tibble with columns determined by the groups and rows determined by the function applied to the groups. Depends on group_by()	**summarise**(data, function, grouping structure)	tidyverse
	- Stack columns with common data into a single column, and adding a column with categories that describe the original columns	**pivot_longer**(data, columns to pivot, names_to = "NAME", values_to = "VALUE")	tidyverse
	- Unstack columns according to another categorical column, one new column per category	**pivot_wider**(data, columns to pivot, names_to = "NAME", values_to = "VALUE")	tidyverse

String manipulation	- Join Multiple strings into a single string	**str_c**("string1", "string2", sep="")	tidyverse
	- Remove matched patterns in a string	**str_remove**(string, pattern)	tidyverse
	- Replace matched patterns in a string	**str_replace**(string, pattern, replacement)	tidyverse
		str_replace_na(string, pattern, replacement)	tidyverse
	- Alter case of a string	**str_to_upper**(string)	tidyverse
		str_to_lower(string)	tidyverse
	- Get portions of strings matching a pattern	**str_subset**(string, pattern)	tidyverse
		str_detect(string, pattern)	tidyverse
		str_which(string, pattern)	tidyverse
Other Useful Functions	- Apply a function to each element of a list or vector	**map**(list or vector, function, additional arguments)	purrr
	- Decision logic	**if_else**(condition, if true, if false)	tidyverse
Pipelines	- pipe	**%>%**	tidyverse
	- start pipe	nameOfTibble **%>%** nextcommand()	tidyverse
		read_excel() %>% nextcommand()	tidyverse
	- save pipe to variable	tibbleName **<- read_tsv() %>%** nextcommand()	