Day 4 Cheatsheet

Data Manipulation

Major concepts:

- Wide data multiple columns per individual, values spread across multiple columns
- Long data multiple rows per observation, a single column contains the values

Functions

Library/Package	Piece of code	Example of usage	What it does	
dplyr	separate()	df %>% separate(x, c("A", "B"))	Separate a character column into multiple columns with a regular expression or numeric locations	
dplyr	unite()	<pre>df %>% unite("z", x:y, remove = FALSE)</pre>	Unite multiple columns together into one column	
tidyr	pivot_longer()	<pre>df %>% pivot_longer(!column_to_not_touch, names_to = "new_col_with_labels", values_to = "new_col_with_values")</pre>	Lengthens a data frame by increasing the number of rows and decreasing the number of columns.	
tidyr	pivot_wider()	<pre>df %>% pivot_wider(names_from = "col_with_names", values_from = "col_with_values")</pre>	Widens a data frame by decreasing the number of rows and increasing the number of columns.	
dplyr	?_join()	<pre>inner_join(x, y)</pre>	Joins data from two data frames. inner_join - only rows that match for x and y are kept. full_join - all rows of x and y are kept. left_join - all rows of x are kept even if not merged with y. right_join - all rows of y are kept even if not merged with x. anti_join - all rows from x not in y keeping just columns from x.	
Base R	duplicated()	duplicated(x)	Determines and removes duplicate elements from x.	
Base R	t()	Transpose	Returns the transpose of a matrix or data frame. If given a data frame, returns a matrix.	

* This format was adapted from the cheatsheet format from AlexsLemonade.