

Week 5 Assignment

Your code should be placed in a single R script. Place your R script in a public repository on github and submitting a link to the script here.

Week 5 assignment is due end of day on Tuesday September 30th. The assignment solution will be posted on Wednesday October 1st.

Using dplyr package to transform data

Here are the first few rows of information in the mtcars dataset, that ships with base R.

```
> head(mtcars)
```

	mpg	cyl	dis	hp	drat	wt	qsec	vs	am	gear	carb
Mazda RX4	21.0	6	160	110	3.90	2.620	16.46	0	1	4	4
Mazda RX4 Wag	21.0	6	160	110	3.90	2.875	17.02	0	1	4	4
Datsun 710	22.8	4	108	93	3.85	2.320	18.61	1	1	4	1
Hornet 4 Drive	21.4	6	258	110	3.08	3.215	19.44	1	0	3	1
Hornet Sportabout	18.7	8	360	175	3.15	3.440	17.02	0	0	3	2
Valiant	18.1	6	225	105	2.76	3.460	20.22	1	0	3	1

Your task: Using R's **dplyr** package, write R code that shows the average mpg and average weight based on # of cylinders and whether there is automatic transmission; show only for cars that get more than 20 mpg. Here are the first few rows of sample output:

#	cyl	am	avgmpg	avgwt
# 1	4	0	22.90000	2.93500
# 2	4	1	28.07500	2.04225
# 3	6	1	20.56667	2.75500