Getting data from tabular sources

Getting and Cleaning Data

Each column separated by a comma



sample_data.csv — Edited ~

name, height, blood_type Natasha, 5'2", A-Hassan, 6', B-Chun, 5'8", 0

Has the extension ".csv"

Each row is separated by a new line



sample_data 🔯 🖿





File Edit View Insert Format Data To





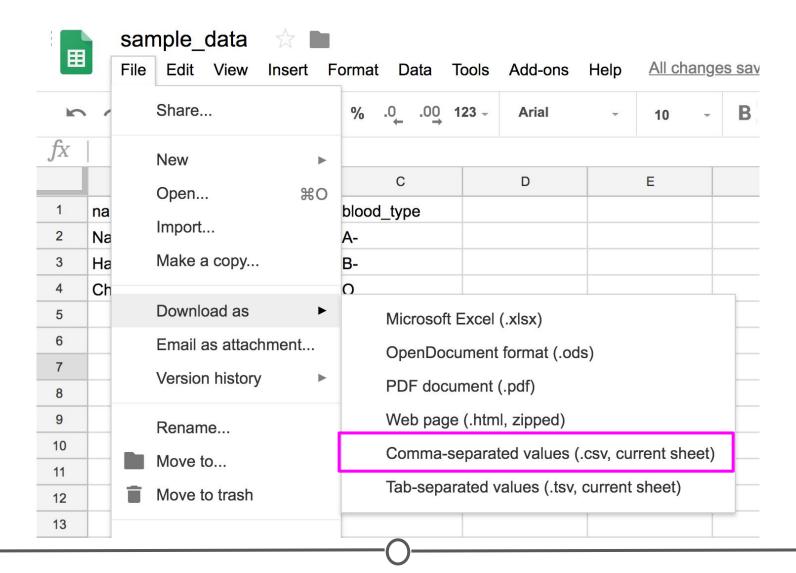


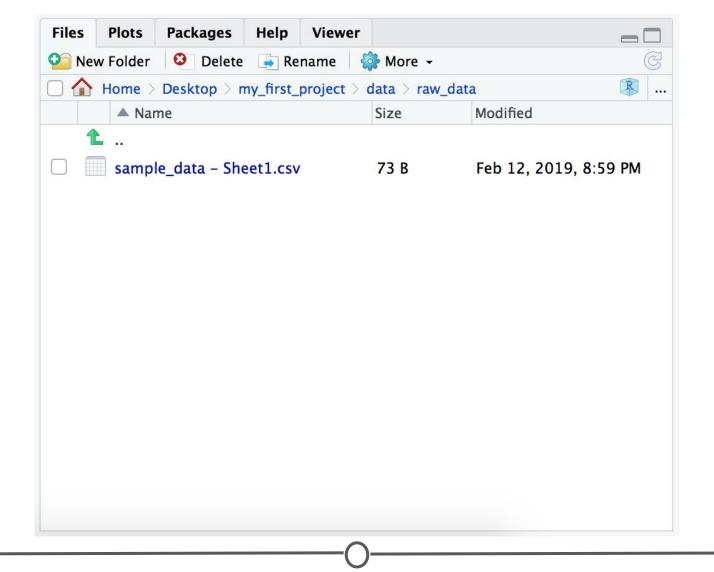


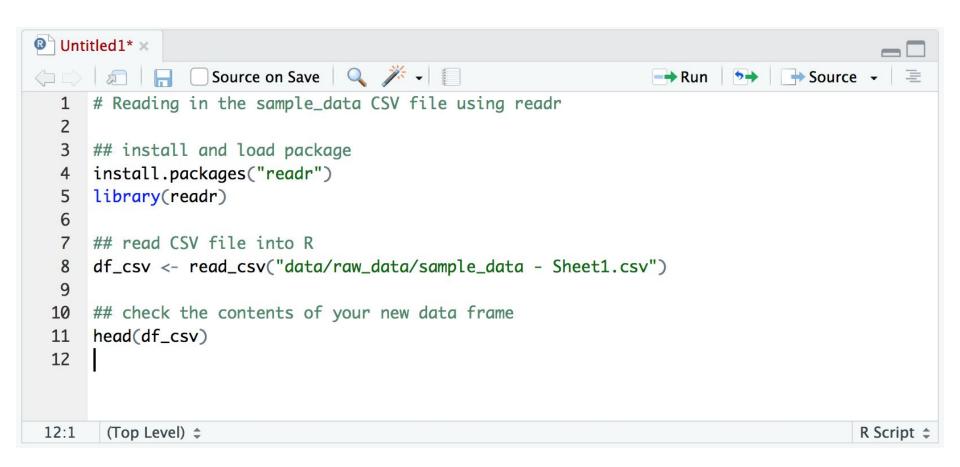
► → ↑ 100% - \$ % .0 .0 1



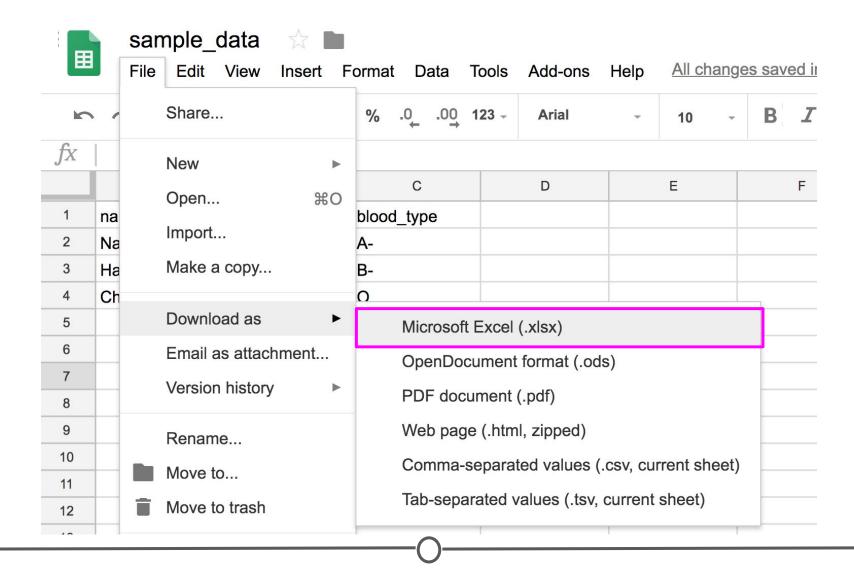
	Α	В	С		
1	name	height	blood_type		
2	Natasha	5'2"	A-		
3	Hassan	6'	B-		
4	Chun	5'8"	0		

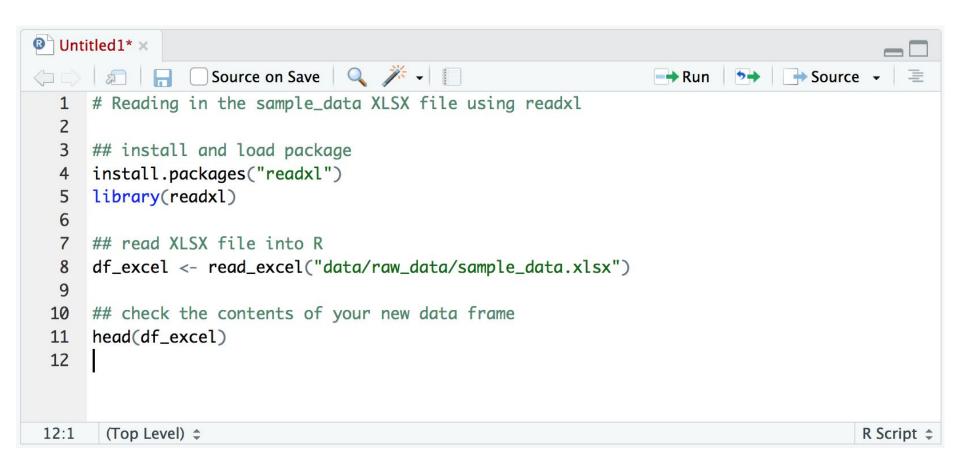


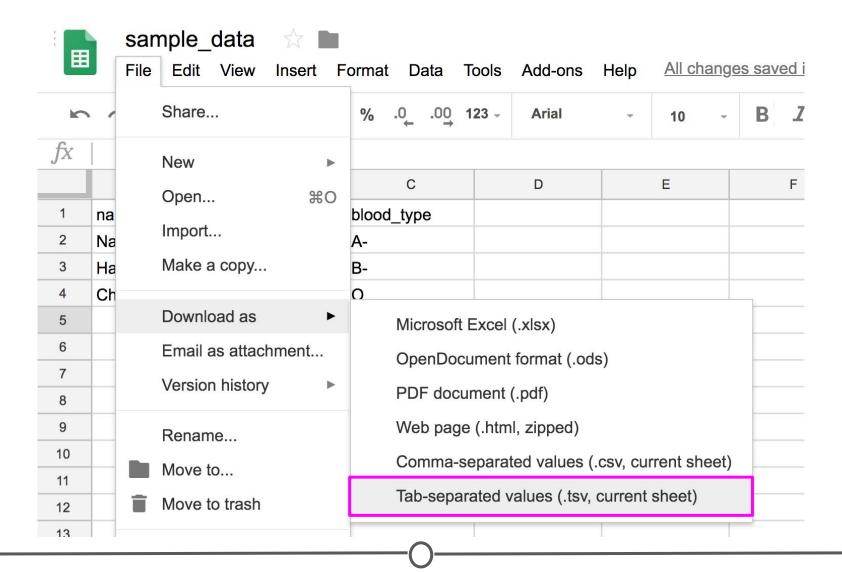


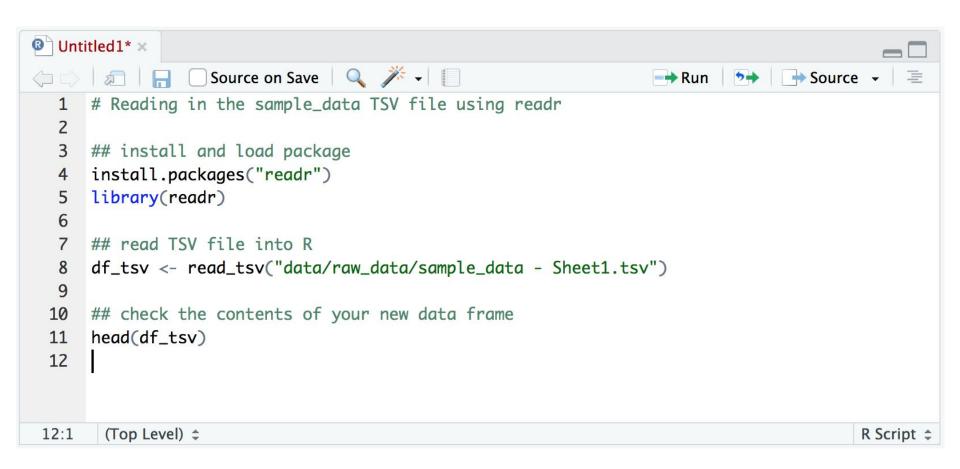


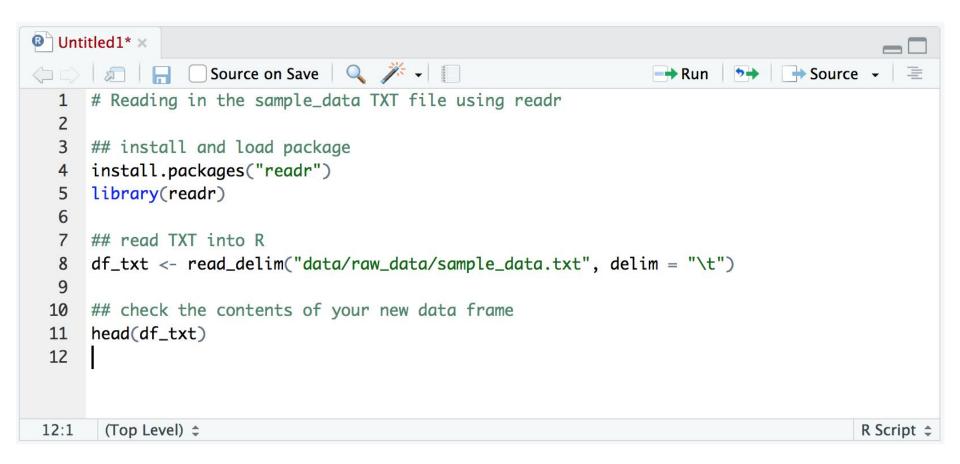
- col_names = FALSE to specify that the first row does NOT contain column names
- skip = 2 will skip the first 2 rows.
- n max = 100 will only read in the first 100 rows.

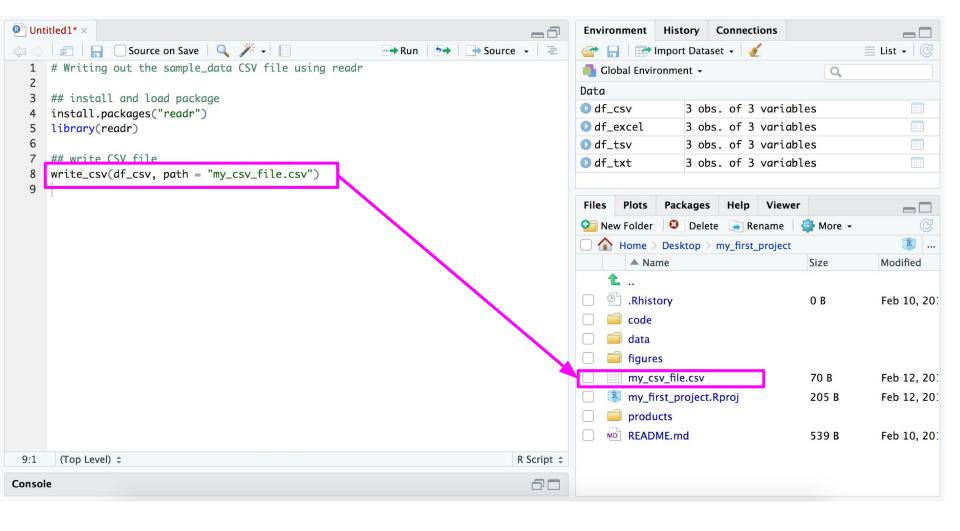


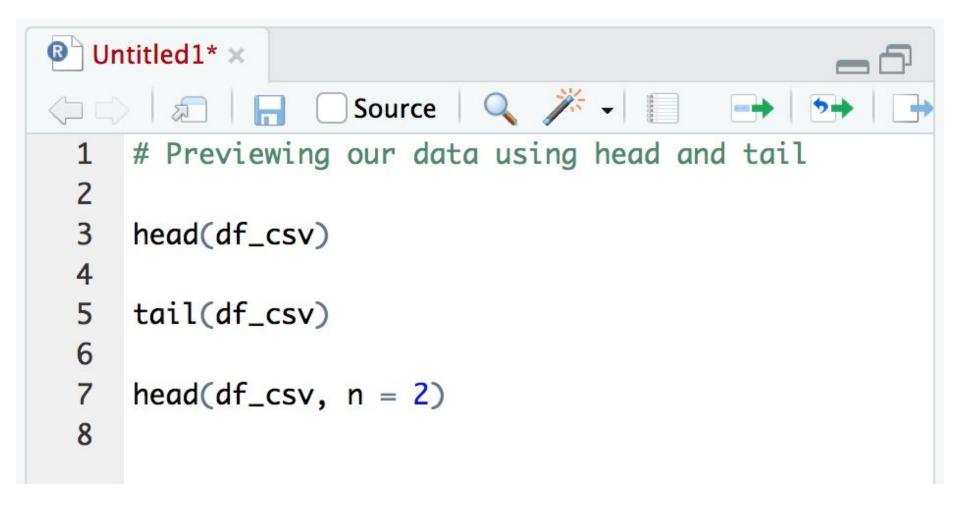




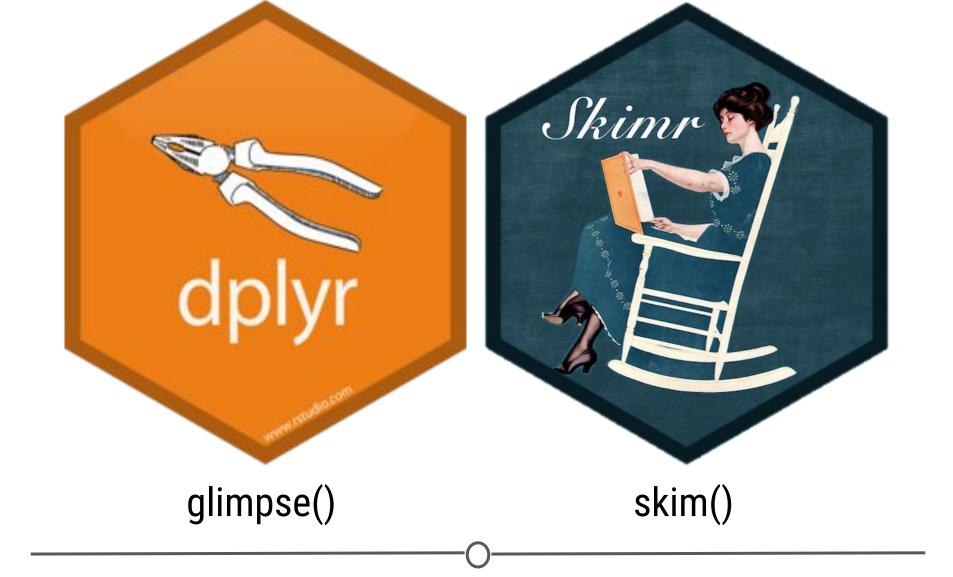


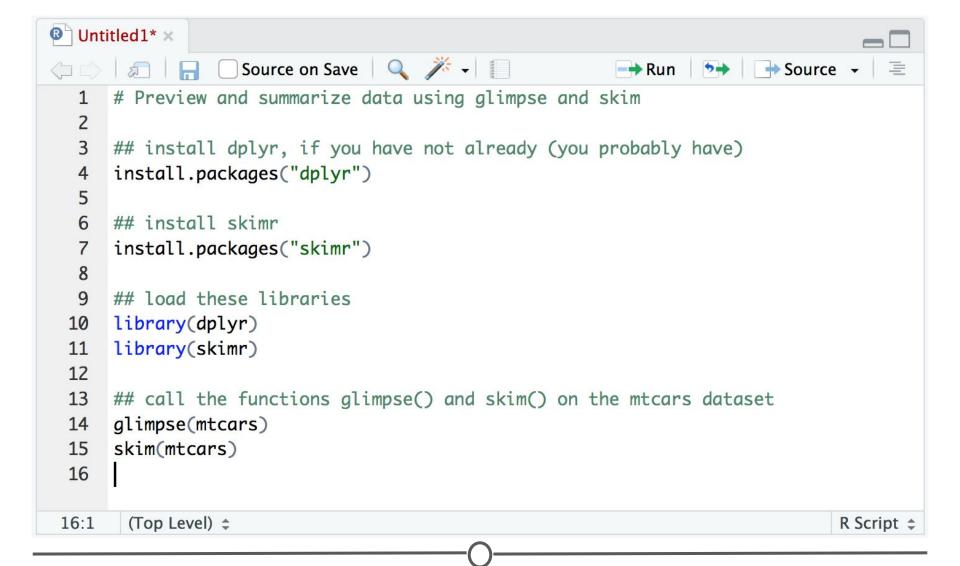






```
> head(mtcars)
                 mpg cyl disp hp drat wt qsec vs am gear carb
Mazda RX4
                         160 110 3.90 2.620 16.46 0
                21.0
                21.0 6
                         160 110 3.90 2.875 17.02 0 1
Mazda RX4 Wag
Datsun 710
            22.8 4 108 93 3.85 2.320 18.61 1 1
Hornet 4 Drive 21.4 6 258 110 3.08 3.215 19.44 1 0
Hornet Sportabout 18.7 8
                         360 175 3.15 3.440 17.02 0 0
Valiant
                18.1 6 225 105 2.76 3.460 20.22 1 0
> str(mtcars)
'data.frame': 32 obs. of 11 variables:
 $ mpg : num 21 21 22.8 21.4 18.7 18.1 14.3 24.4 22.8 19.2 ...
 $ cyl : num 6646868446 ...
 $ disp: num 160 160 108 258 360 ...
 $ hp : num
            110 110 93 110 175 105 245 62 95 123 ...
 $ drat: num 3.9 3.9 3.85 3.08 3.15 2.76 3.21 3.69 3.92 3.92 ...
 $ wt : num 2.62 2.88 2.32 3.21 3.44 ...
            16.5 17 18.6 19.4 17 ...
 $ qsec: num
 $ vs : num 0 0 1 1 0 1 0 1 1 1 ...
 $ am : num 1110000000...
 $ gear: num 4 4 4 3 3 3 3 4 4 4 ...
 $ carb: num 4411214224 ...
```





> skim(mtcars)

Skim summary statistics

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n obs: 32 n variables: 11

> alimpse(mtcars)

— variable type:numeric ————————————————————————————————————											
variable	missing	complete	n	mean	sd	p0	p25	p50	p75	p100	hist
am	0	32	32	0.41	0.5	0	0	0	1	1	
carb	0	32	32	2.81	1.62	1	2	2	4	8	
cyl	0	32	32	6.19	1.79	4	4	6	8	8	
disp	0	32	32	230.72	123.94	71.1	120.83	196.3	326	472	
drat	0	32	32	3.6	0.53	2.76	3.08	3.7	3.92	4.93	
gear	0	32	32	3.69	0.74	3	3	4	4	5	
hp	0	32	32	146.69	68.56	52	96.5	123	180	335	
mpg	0	32	32	20.09	6.03	10.4	15.43	19.2	22.8	33.9	
qsec	0	32	32	17.85	1.79	14.5	16.89	17.71	18.9	22.9	
VS	0	32	32	0.44	0.5	0	0	0	1	1	
wt	0	32	32	3.22	0.98	1.51	2.58	3.33	3.61	5.42	

Summarizing: Getting data from tabular sources

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