HOW TO RETRIEVE YOUR DATA IN COLAB

by

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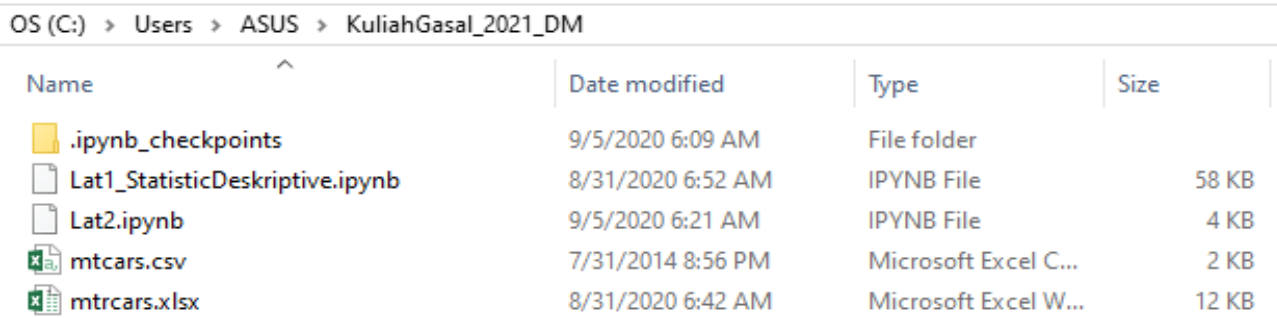
source: https://github.com/whentea


GOOGLE COLAB

Retrieving data from your drive

THAT'S YOUR DATA PATH



source: https://github.com/whentea

SIGN IN WITH A GOOGLE ACCOUNT

In order to execute code, you need a google account

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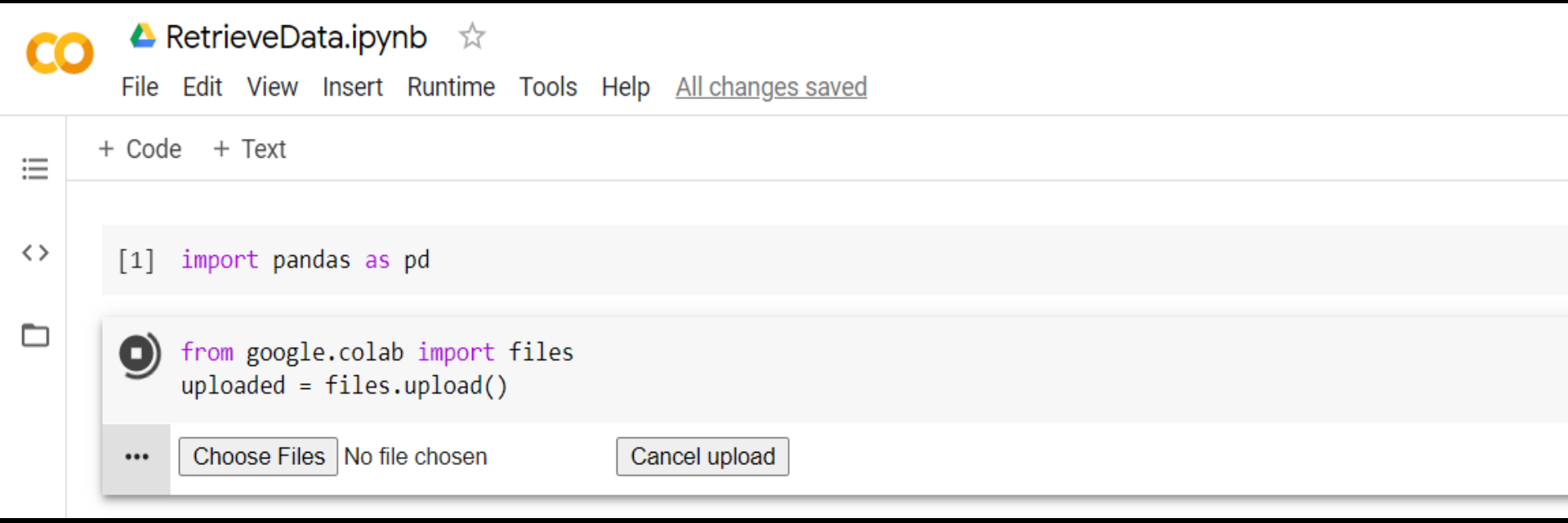
CALLING THE LIBRARY AND RETRIEVING YOUR FILE

Calling the “pandas” library
Retrieving your data



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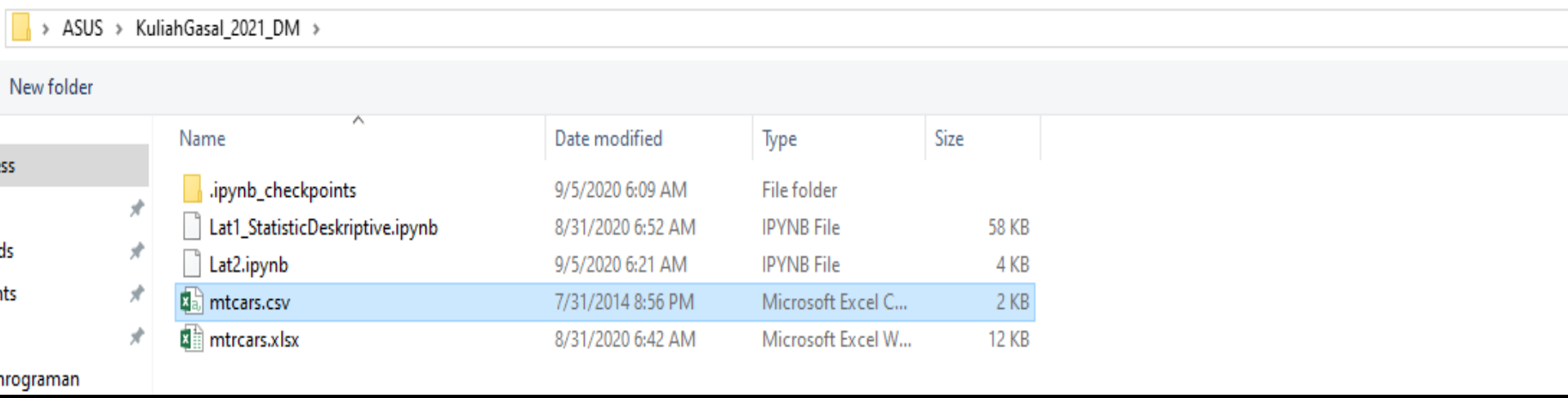
YOUR DATA



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THE CARS

RetrieveData.ipynb

File Edit View Insert Runtime Tools Help Saving...

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```
[8]  import pandas as pd
```

```
[9]  from google.colab import files
     uploaded = files.upload()
```

Choose Files mtcars.csv

- **mtcars.csv**(application/vnd.ms-excel) - 1700 bytes, last modified: 7/31/2014 - 100% done

```
Saving mtcars.csv to mtcars (2).csv
```

```
[10] import io
```

```
[13] cars = pd.read_csv(io.BytesIO(uploaded['mtcars.csv']))
```

```
cars
```

	model	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
0	Mazda RX4	21.0	6	160.0	110	3.90	2.620	16.46	0	1	4	4
1	Mazda RX4 Wag	21.0	6	160.0	110	3.90	2.875	17.02	0	1	4	4
2	Datsun 710	22.8	4	108.0	93	3.85	2.320	18.61	1	1	4	1
3	Hornet 4 Drive	21.4	6	258.0	110	3.08	3.215	19.44	1	0	3	1
4	Hornet Sportabout	18.7	8	360.0	175	3.15	3.440	17.02	0	0	3	2
5	Valiant	18.1	6	225.0	105	2.76	3.460	20.22	1	0	3	1
6	Duster 360	14.3	8	360.0	245	3.21	3.570	15.84	0	0	3	4
7	Merc 240D	24.4	4	146.7	62	3.69	3.190	20.00	1	0	4	2

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DATA EXPLORATION

Showing 10 instances

RetrieveData.ipynb

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```
[17] cars.head(10)
```

	model	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
0	Mazda RX4	21.0	6	160.0	110	3.90	2.620	16.46	0	1	4	4
1	Mazda RX4 Wag	21.0	6	160.0	110	3.90	2.875	17.02	0	1	4	4
2	Datsun 710	22.8	4	108.0	93	3.85	2.320	18.61	1	1	4	1
3	Hornet 4 Drive	21.4	6	258.0	110	3.08	3.215	19.44	1	0	3	1
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5	Valiant	18.1	6	225.0	105	2.76	3.460	20.22	1	0	3	1
6	Duster 360	14.3	8	360.0	245	3.21	3.570	15.84	0	0	3	4
7	Merc 240D	24.4	4	146.7	62	3.69	3.190	20.00	1	0	4	2
8	Merc 230	22.8	4	140.8	95	3.92	3.150	22.90	1	0	4	2
9	Merc 280	19.2	6	167.6	123	3.92	3.440	18.30	1	0	4	4

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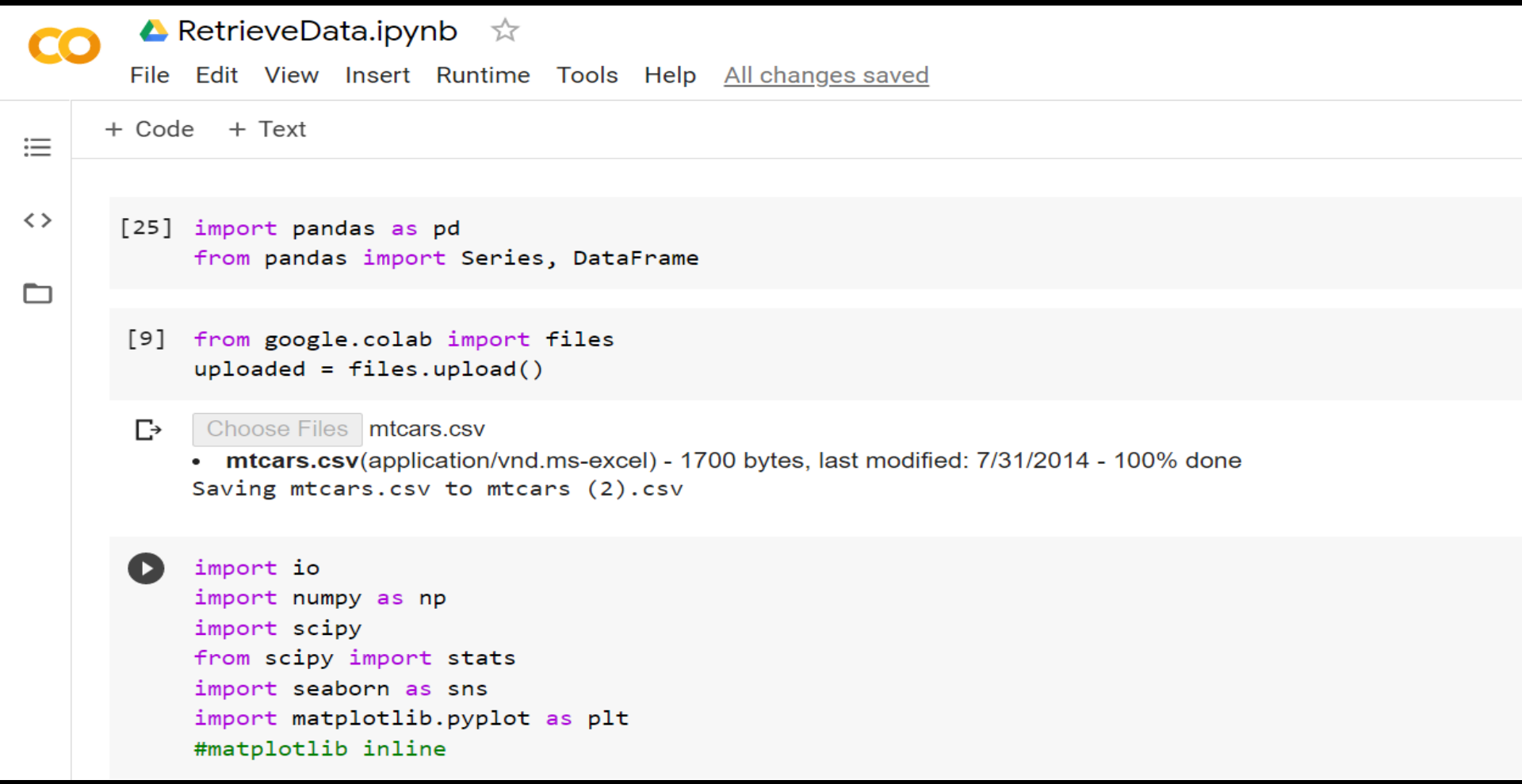
DATA EXPLORATION

Compliting your library



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DATA EXPLORATION

Descriptive Statistics

RetrieveData.ipynb

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```
[21] cars.median()
```

```
mpg      19.200
cyl       6.000
disp    196.300
hp      123.000
drat      3.695
wt        3.325
qsec     17.710
vs        0.000
am        0.000
gear      4.000
carb      2.000
dtype: float64
```

```
cars.describe()
```

	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
count	32.000000	32.000000	32.000000	32.000000	32.000000	32.000000	32.000000	32.000000	32.000000	32.000000	32.0000
mean	20.090625	6.187500	230.721875	146.687500	3.596563	3.217250	17.848750	0.437500	0.406250	3.687500	2.8125
std	6.026948	1.785922	123.938694	68.562868	0.534679	0.978457	1.786943	0.504016	0.498991	0.737804	1.6152
min	10.400000	4.000000	71.100000	52.000000	2.760000	1.513000	14.500000	0.000000	0.000000	3.000000	1.0000
25%	15.425000	4.000000	120.825000	96.500000	3.080000	2.581250	16.892500	0.000000	0.000000	3.000000	2.0000
50%	19.200000	6.000000	196.300000	123.000000	3.695000	3.325000	17.710000	0.000000	0.000000	4.000000	2.0000
75%	22.800000	8.000000	326.000000	180.000000	3.920000	3.610000	18.900000	1.000000	1.000000	4.000000	4.0000
max	33.900000	8.000000	472.000000	335.000000	4.930000	5.424000	22.900000	1.000000	1.000000	5.000000	8.0000

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DATA EXPLORATION

"Boxplot and Whisker" AND "Histogram"

RetrieveData.ipynb

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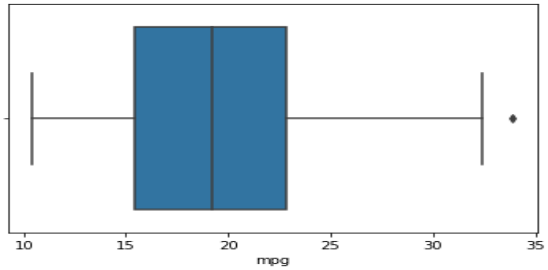
max	33.900000	8.000000	472.000000	335.000000	4.930000	5.424000	22.900000	1.000000	1.000000	5.000000	8.0000

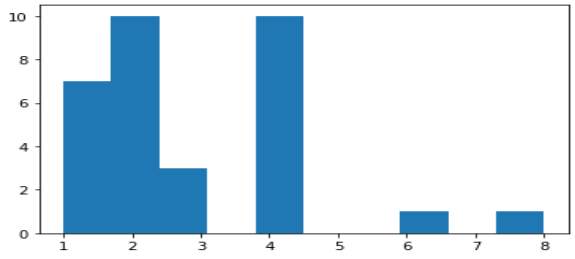
```
sns.boxplot(x=cars['mpg'])
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f447c0c35f8>
```




```
[29] plt.hist(x=cars['carb'])
```

```
(array([ 7., 10.,  3.,  0., 10.,  0.,  0.,  1.,  0.,  1.]),
 array([1. , 1.7, 2.4, 3.1, 3.8, 4.5, 5.2, 5.9, 6.6, 7.3, 8. ]),
 <a list of 10 Patch objects>)
```



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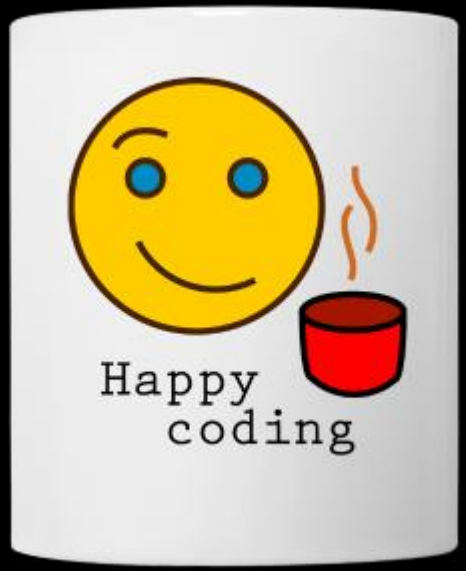

HAPPY
CODING

DO DIGITAL. STAY HUMAN.