



HOW TO RETRIEVE YOUR DATA IN COLAB

by

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source: <https://github.com/whentea>



GOOGLE COLAB






The image features a person in a dark suit and light-colored shirt holding a tablet. The background is a blurred cityscape. Overlaid on the image are several digital graphics: a bar chart with blue and green bars, a line graph with two upward-trending arrows, a circular gauge showing '29%', and another circular gauge showing '85%'. At the bottom, there are icons for a document, a padlock, a classical building, and a hexagon, along with a series of small bar charts and a line graph. The overall color scheme is teal and blue.

The background image shows a person's hand reaching out to interact with a futuristic, semi-transparent digital interface. The interface is composed of several hexagonal panels, each containing a different icon and text related to artificial intelligence and data science. The overall aesthetic is high-tech and modern, with a blue and white color scheme. The text "Retrieving data from your drive" is prominently displayed in the center of the image.

Retrieving data from your drive

THAT'S YOUR DATA PATH

OS (C:) > Users > ASUS > KuliahGasal_2021_DM

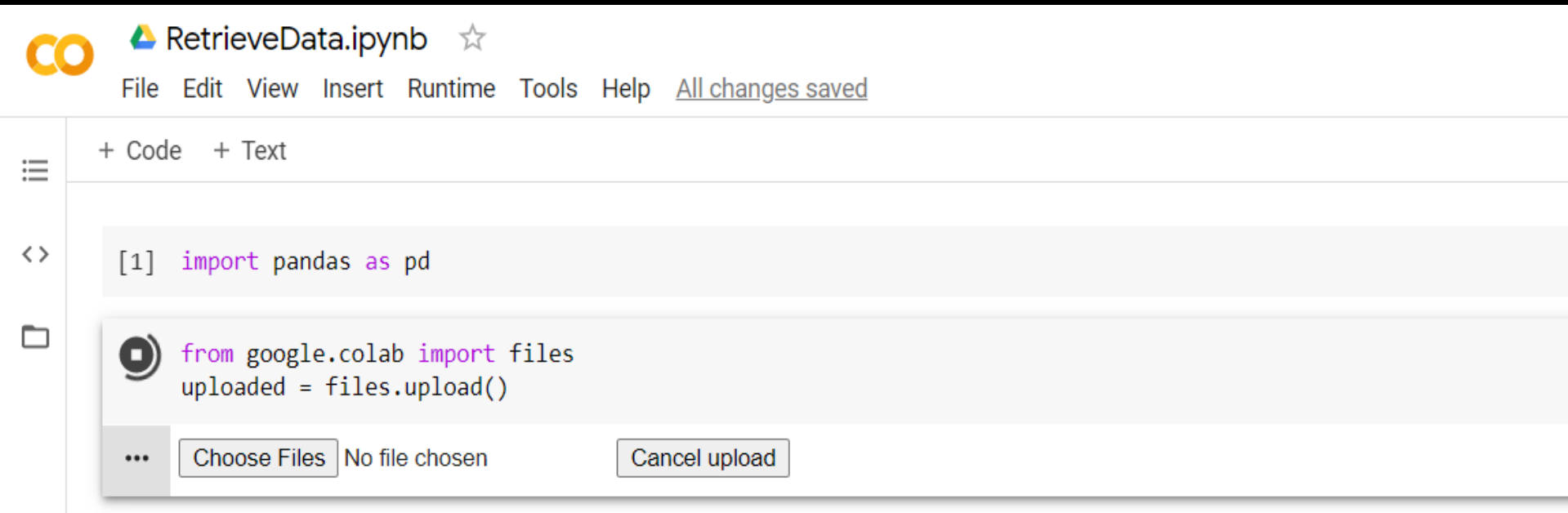
Name	Date modified	Type	Size
 .ipynb_checkpoints	9/5/2020 6:09 AM	File folder	
 Lat1_StatisticDeskriptive.ipynb	8/31/2020 6:52 AM	IPYNB File	58 KB
 Lat2.ipynb	9/5/2020 6:21 AM	IPYNB File	4 KB
 mtcars.csv	7/31/2014 8:56 PM	Microsoft Excel C...	2 KB
 mtrcars.xlsx	8/31/2020 6:42 AM	Microsoft Excel W...	12 KB

SIGN IN WITH A GOOGLE ACCOUNT

In order to execute code, you need a google account

CALLING THE LIBRARY AND RETRIEVING YOUR FILE

Calling the “pandas” library
Retrieving your data



The screenshot shows a Google Colab notebook titled "RetrieveData.ipynb". The interface includes a top menu bar with "File", "Edit", "View", "Insert", "Runtime", "Tools", and "Help", along with a status message "All changes saved". On the left, there are icons for a menu, code execution, and file management. The main area displays two code cells. The first cell contains the code `[1] import pandas as pd`. The second cell contains the code `from google.colab import files` and `uploaded = files.upload()`. Below the second cell, a file upload dialog is open, showing a "Choose Files" button, the text "No file chosen", and a "Cancel upload" button.


co RetrieveData.ipynb ☆

File Edit View Insert Runtime Tools Help [All changes saved](#)

+ Code + Text

<>

[1] `import pandas as pd`

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

... Choose Files No file chosen Cancel upload


YOUR DATA

ASUS > KuliahGasal_2021_DM >

New folder

	Name	Date modified	Type	Size
	.ipynb_checkpoints	9/5/2020 6:09 AM	File folder	
	Lat1_StatisticDeskriptive.ipynb	8/31/2020 6:52 AM	IPYNB File	58 KB
	Lat2.ipynb	9/5/2020 6:21 AM	IPYNB File	4 KB
	mtcars.csv	7/31/2014 8:56 PM	Microsoft Excel C...	2 KB
	mtrcars.xlsx	8/31/2020 6:42 AM	Microsoft Excel W...	12 KB

THE CARS

 RetrieveData.ipynb ☆

File Edit View Insert Runtime Tools Help Saving...

+ Code + Text

<>

📁

[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`

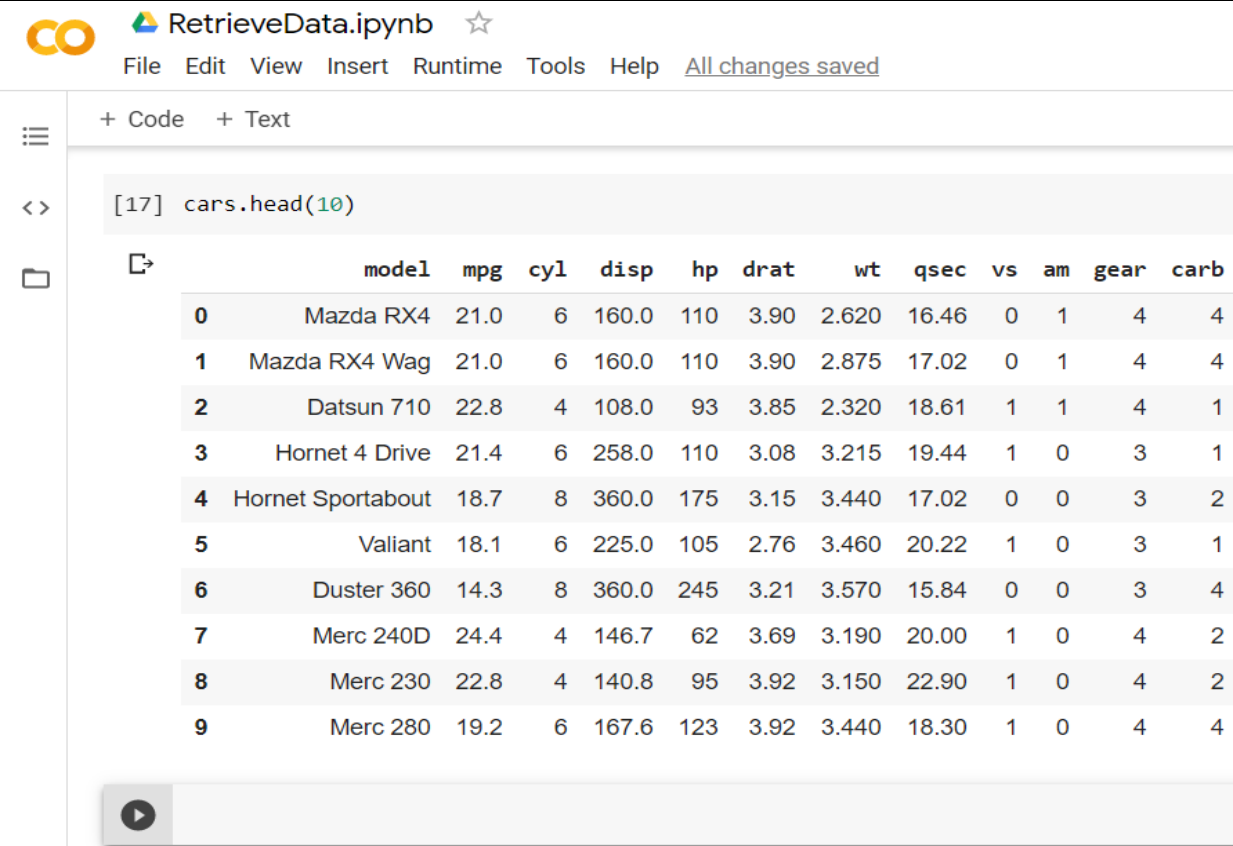
[13] `cars = pd.read_csv(io.BytesIO(uploaded['mtcars.csv']))`

▶ 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

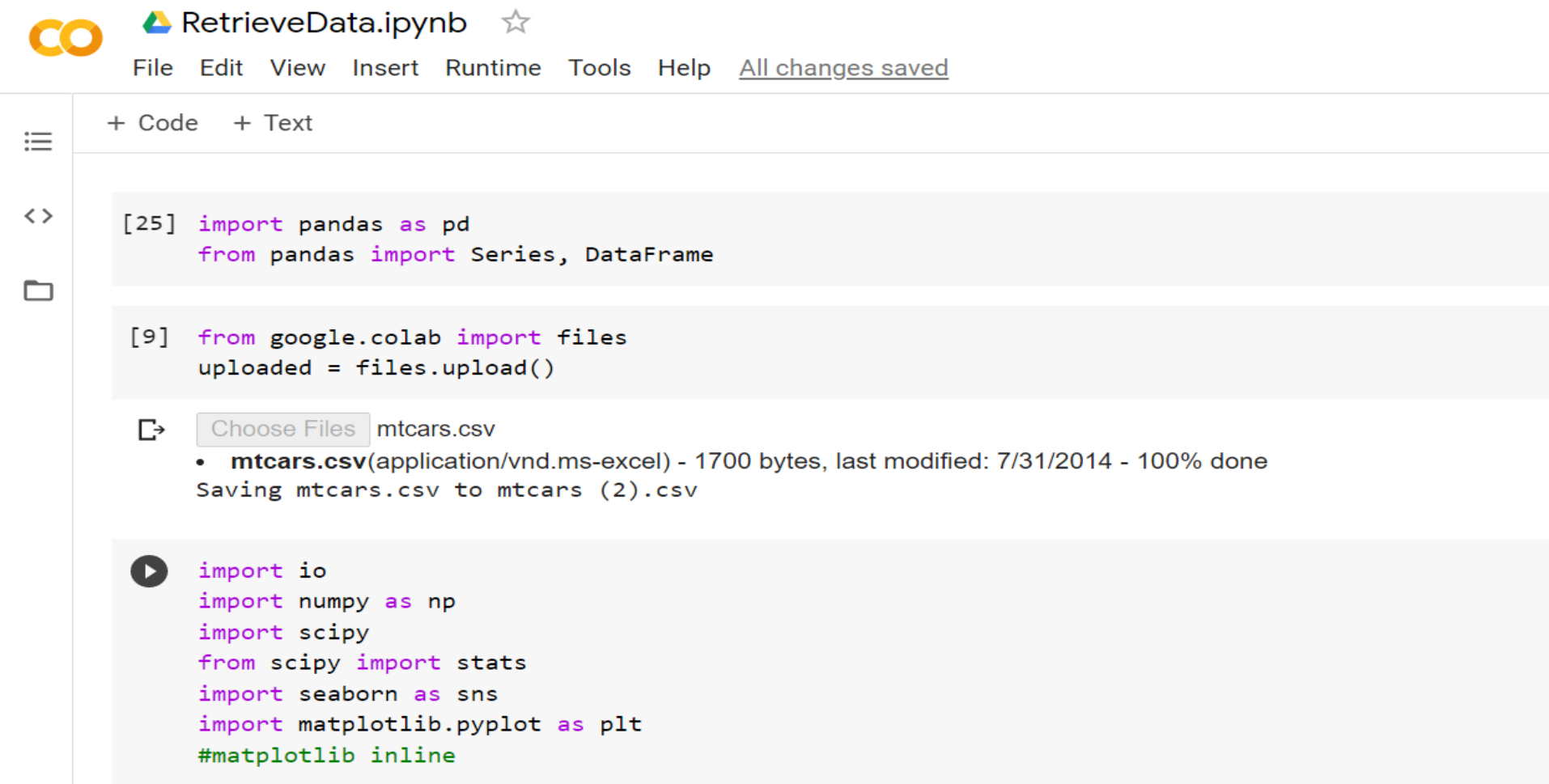
Showing 10 instances



The image shows a Jupyter Notebook interface with the title 'RetrievalData.ipynb'. The notebook contains a single code cell with the command `[17] cars.head(10)`. Below the code cell, the first 10 rows of the 'cars' dataset are displayed as a table. The table has 13 columns: 'model', 'mpg', 'cyl', 'disp', 'hp', 'drat', 'wt', 'qsec', 'vs', 'am', 'gear', and 'carb'. The rows are indexed from 0 to 9. The interface includes a left sidebar with icons for file explorer, code editor, and output. The top menu bar includes 'File', 'Edit', 'View', 'Insert', 'Runtime', 'Tools', and 'Help'. The status bar at the bottom indicates 'All changes saved'.

	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
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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

Compliting your library



The image shows a Google Colab notebook titled "RetrieveData.ipynb". The interface includes a menu bar with options: File, Edit, View, Insert, Runtime, Tools, Help, and a status message "All changes saved". On the left, there are icons for a sidebar, expand/collapse, and a file explorer. The main area displays three code cells. The first cell imports pandas and its Series and DataFrame classes. The second cell imports files from google.colab and uploads a file. The third cell shows a file upload interface for "mtcars.csv" and then imports various libraries including io, numpy, scipy, seaborn, and matplotlib.

CO RetrieveData.ipynb ☆

File Edit View Insert Runtime Tools Help All changes saved

+ Code + Text

```
[25] import pandas as pd
      from pandas import Series, DataFrame
```

```
[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

```
import io
import numpy as np
import scipy
from scipy import stats
import seaborn as sns
import matplotlib.pyplot as plt
#matplotlib inline
```

Descriptive Statistics

RetrieveData.ipynb ☆

File Edit View Insert Runtime Tools Help [All changes saved](#)

+ Code + Text

[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

"Boxplot and Whisker" AND "Histogram"





DO DIGITAL. STAY HUMAN.