

Python3 101



Yorumlayıcı nedir? (Interpreter)

Yorumlayıcı, yazılımı
kısım kısım ele alarak
doğrudan çalıştırır.



```
Python 3.8.3 (v3.8.3:6f8c8320e9, May 13 2020, 16:29:34)
[Clang 6.0 (clang-600.0.57)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
WARNING: The system preference "Prefer tabs when opening documents" is set to
"Always". This will cause various problems with IDLE. For the best experience,
change this setting when running IDLE (via System Preferences -> Dock).
>>> print("Hello World")
Hello World
>>> |
```

Ln: 9 Col: 4

Jupyter Notebook

The screenshot shows a Jupyter Notebook interface running in a web browser. The title bar indicates it's a Python3 notebook titled "Python3 101-1 - Jupyter Notebook". The toolbar includes standard options like File, Edit, View, Insert, Cell, Kernel, Widgets, and Help, along with a "Trusted" status and a Python kernel dropdown showing "Python 3.8.1 64-bit ('3.8.1': pyenv)". A toolbar below the menu bar contains icons for file operations, cell execution, and other functions.

The main content area displays a section titled "Karakter Dizileri (Strings)". Below this, several code cells are shown:

- In []: 'c'
- In []: ''
" "
''' '''
- In []: "Lorem ipsum"
- In []: """
Lorem
ipsum
"""
- In []: type('Lorem ipsum')
- In []: "Lorem" + " " + "ipsum"
- In []: "Python" " " "bir" " " "proglama" " " "dilidir."
- In []: "Python" *2

The notebook has a watermark logo in the center-right area.

Google Colab

The screenshot shows a web browser window for Google Colab. The title bar says "Welcome To Colaboratory - Colab". The address bar shows the URL "colab.research.google.com/notebooks/intro.ipynb#scrollTo=5fCEDCU_qrC0". The main content area displays the "Welcome To Colaboratory" page. On the left, there's a "Table of contents" sidebar with sections like "Getting started", "Data science", "Machine learning", "More Resources", "Machine Learning Examples", and a "Section" button. The main content area has a heading "What is Colaboratory?", a brief description, a bulleted list of benefits (zero configuration required, free access to GPUs, easy sharing), and a call to action to watch the "Introduction to Colab" video or get started below. Below this, there's a section titled "Getting started" with a description of what a Colab notebook is and a code cell example. The code cell contains Python code to calculate seconds in a day, which is then printed as 86400. A note explains how to execute code and edit variables across cells. At the bottom, there's a summary of Colab's features and how to create a new notebook.

Welcome To Colaboratory

File Edit View Insert Runtime Tools Help

Table of contents

+ Code + Text Copy to Drive Connect Editing

What is Colaboratory?

Colaboratory, or "Colab" for short, allows you to write and execute Python in your browser, with

- Zero configuration required
- Free access to GPUs
- Easy sharing

Whether you're a **student**, a **data scientist** or an **AI researcher**, Colab can make your work easier. Watch [Introduction to Colab](#) to learn more, or just get started below!

Getting started

The document you are reading is not a static web page, but an interactive environment called a **Colab notebook** that lets you write and execute code.

For example, here is a **code cell** with a short Python script that computes a value, stores it in a variable, and prints the result:

```
[ ] seconds_in_a_day = 24 * 60 * 60
seconds_in_a_day
```

86400

To execute the code in the above cell, select it with a click and then either press the play button to the left of the code, or use the keyboard shortcut "Command/Ctrl+Enter". To edit the code, just click the cell and start editing.

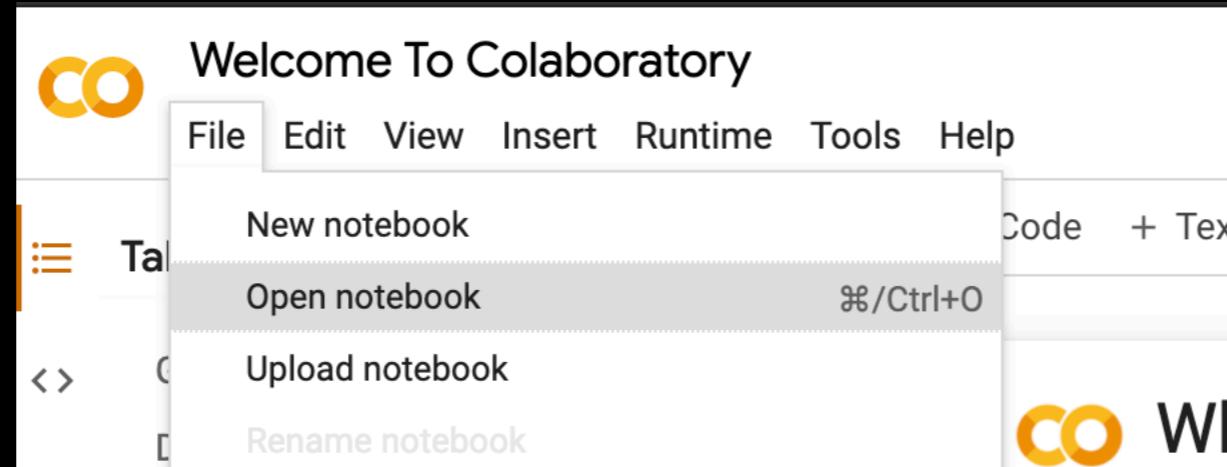
Variables that you define in one cell can later be used in other cells:

```
[ ] seconds_in_a_week = 7 * seconds_in_a_day
seconds_in_a_week
```

604800

Colab notebooks allow you to combine **executable code** and **rich text** in a single document, along with **images**, **HTML**, **LaTeX** and more. When you create your own Colab notebooks, they are stored in your Google Drive account. You can easily share your Colab notebooks with co-workers or friends, allowing them to comment on your notebooks or even edit them. To learn more, see [Overview of Colab](#). To create a new Colab notebook you can use the File menu above, or use the following link: [create a new Colab notebook](#).

Google Colab



Google Colab

The screenshot shows the Google Colab interface with a modal dialog for selecting a GitHub repository. The dialog has three main sections:

- GitHub**: A button labeled "GitHub" with a red arrow pointing to it.
- Repository**: A text input field containing the URL `https://github.com/kaanberke/python3_101`, with a red arrow pointing to it.
- Path**: A dropdown menu showing the path `kaanberke/python3_101`, with a red arrow pointing to it.

Below the dialog, the main Colab notebook area shows a code cell with the following Python code:

```
[ ] seconds_in_a_week = 7 * seconds_in_a_day  
seconds_in_a_week
```

At the bottom of the screen, there is a status bar with the URL `https://colab.research.google.com/github/kaanberke/python3_101/blob/master/Python3%20101.ipynb`.

Google Colab

Python3 101.ipynb - Colaboratory

File Edit View Insert Runtime Tools Help Last saved at 10:41 PM

Share Sign in

Python 101

Runtime menu open, showing:

- Run all ⌘/Ctrl+F9
- Run before ⌘/Ctrl+F8
- Run the focused cell ⌘/Ctrl+Enter
- Run selection ⌘/Ctrl+Shift+Enter
- Run after ⌘/Ctrl+F10
- Interrupt execution ⌘/Ctrl+M I
- Restart runtime ⌘/Ctrl+M .
- Restart and run all
- Factory reset runtime
- Change runtime type
- Manage sessions
- View runtime logs

Diagram of Python Data Types:

```
graph TD; DA[Data Types] --> N[Numeric]; DA --> D[Dictionary]; DA --> B[Boolean]; DA --> S[Set]; DA --> ST[Sequence Type]; N --> I[Integer]; N --> F[Float]; F --> CN[Complex Number]; ST --> S1[Strings]; ST --> T[Tuple]; S1 --> L[List]
```

Code cell:

```
[ ] 'c'
```

```
[ ] " "
    """
    """
```

Google Colab

Screenshot of a Google Colab notebook titled "Python3 101.ipynb". The notebook interface shows a sidebar with sections like "Python 101" and "Karakter Dizileri (Strings)". A tooltip diagram titled "Python - Data Types" illustrates the hierarchy of Python data types: Numeric (Interger, Complex Number), Dictionary, Boolean, Set, and Strings (Float). A modal window titled "Notebook settings" is open, showing the "Runtime type" set to "Python 3" and the "Hardware accelerator" set to "None". There is also an unchecked checkbox for "Omit code cell output when saving this notebook".

Python - Data Types

- Numeric
 - Interger
 - Complex Number
- Dictionary
- Boolean
- Set
- Strings
 - Float

Notebook settings

Runtime type: Python 3

Hardware accelerator: None

Omit code cell output when saving this notebook

CANCEL SAVE

Google Colab

Python3 101.ipynb - Colaboratory

colab.research.google.com/github/kaanberke/python3_101/blob/master/Python3%20101-1.ipynb

Python3 101.ipynb

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Share Connect Editing

Python 101

Python - Data Types

```
graph TD; A[Python - Data Types] --> B[Numeric]; A --> C[Dictionary]; A --> D[Boolean]; A --> E[Set]; A --> F[Sequence Type]; B --> G[Intenger]; B --> H[Float]; F --> I[Strings]; F --> J[Tuple]; G --> K[Complex Number]
```

DG

Karakter Dizileri (Strings)

```
[ ] 'c'  
[ ] ''  
'''
```

Google Colab

