

Welcome to the Python Playground!

Get ready to explore the amazing world of coding with Python!

Meet Your New Friend: Google Colab!

Your Online Notebook

Write and run Python code right in your web browser!

No Downloads Needed

Super easy to start, no tricky installations!

Share Your Creations

Show off your cool code to friends and teachers!

Google





Your First Spell: "Hello, World!"

Let's make the computer say "Hello!" This is how we make our code talk.

```
print("Hello, World!")
```

Try typing this code into Google Colab and hitting the "Run" button! What happens?

What's in a Computer's Brain?

Data Types!

Computers need to know what kind of information they are working with. These are called "data types."

Numbers

Like 1, 2, 3 (integers) or 3.14 (decimals)

Text (Strings)

Words and sentences, like "Python is fun!"

True or False (Booleans)

Simple yes/no answers for the computer





Guess the Data Type! 🤔

Is it a Number, Text, or True/False?

- "Coding is awesome!"
- 100
- 3.14159
- True
- "Pizza Party!"
- 0

Think about how you would tell a computer what each one is!



Magic Boxes: Variables!

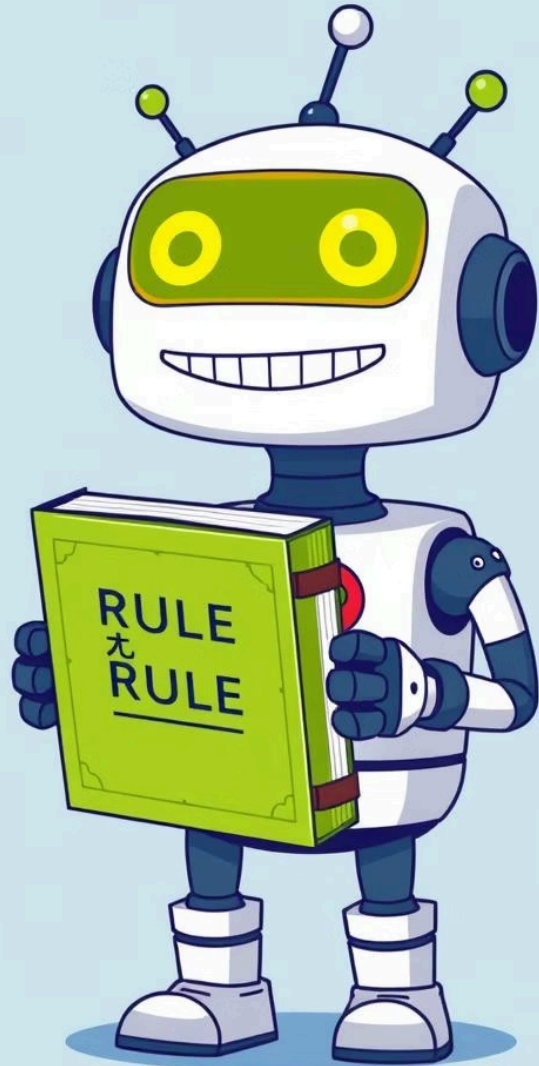
Think of variables as special boxes where you can store different kinds of information. You can put numbers, text, or True/False values inside!

`my_age = 10`

`favorite_food = "Tacos"`

`is_sunny = True`

`score = 95.5`



Rules for Naming Your Magic Boxes

A

Start with a Letter

Variable names must begin with a letter (a-z, A-Z) or an underscore (_).



No Spaces!

Use underscores like **my_name** instead of **my name**.

!

Keep it Clear

Choose names that describe what's inside the box, like **pizza_slices** or **user_name**.

Naming Game: Good or Bad?



Which are good variable names?

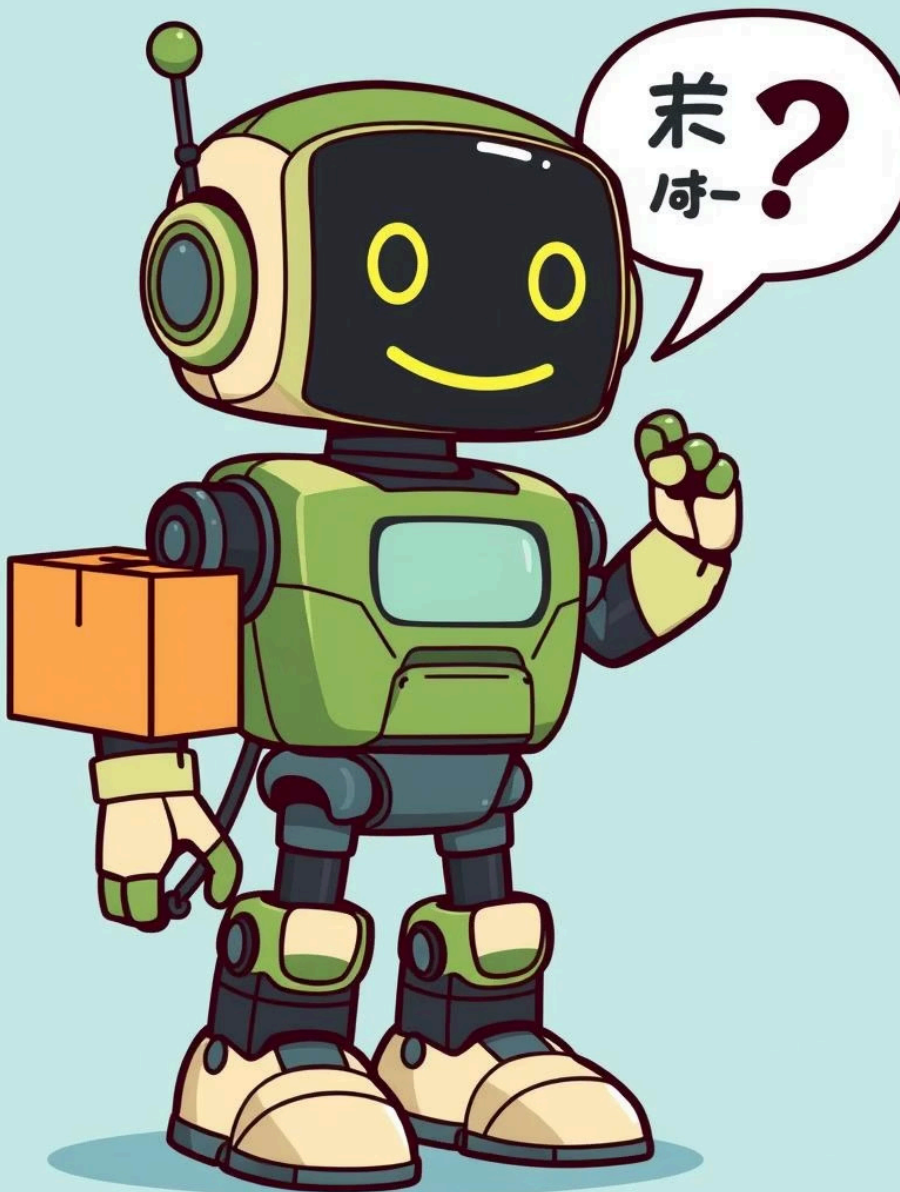
- `helloWorld`
- `grade_7`
- `$money`
- `2cool`
- `_my_secret`
- `favorite color`

Remember the rules! Can you spot the sneaky rule-breakers?

UIZ

QUIZ





Using Variables with Print!

Now we can tell the computer to show us what's inside our magic boxes using the **print()** command!

```
my_name = "Codey"  
print(my_name)
```

```
favorite_number = 7  
print("My favorite number is", favorite_number)
```

Try it out in Google Colab! What do you think the computer will say?

You're a Python Pro! Keep Practicing!



Keep Exploring!

Try new numbers, words, and variable names!



Share Your Code!

Show your awesome notebooks to a friend or family member!



Think Like a Coder!

What else could you make the computer say or store?

