Python Variables - Quick Guide

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- 1. What are Variables?
- Variables are containers for storing data values. In Python, a variable is created when you assign a value to it.
- 2. Rules for Naming Variables:
- Must start with a letter or an underscore (_).
- Cannot start with a number.
- Can only contain alphanumeric characters and underscores (A-Z, a-z, 0-9, and _).
- Case-sensitive: 'myVar' and 'myvar' are different.
- 3. Assigning Values to Variables:
- You do not need to declare the type of variable; Python automatically assigns the type based on the value.

Example:

- 4. Multi-value Assignment:
- Assign multiple variables in a single line:

a, b,
$$c = 1, 2, 3$$

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-	Assign	the	same	value	to	multip	ole	variable	es:

$$x = y = z = 5$$

5. Variable Types:

- Integers: Whole numbers (e.g., 10, -5)
- Floats: Decimal numbers (e.g., 3.14, -0.99)
- Strings: Text enclosed in quotes (e.g., "Hello", 'World')
- Booleans: True or False values

6. Best Practices:

- Use meaningful names for variables to improve code readability.
- Follow snake_case convention (e.g., user_name, total_price).

7. Example Code:

Simple Variable Usage

$$age = 25$$

height = 5.9

is_student = True

print(f"Name: {user_name}, Age: {age}, Height: {height}, Student: {is_student}")

That's a quick overview of Python variables!