Built-in Data Types

In programming, data type is an important concept.

Variables can store data of different types, and different types can do different things.

Python has the following data types built-in by default, in these categories:

Text Type: str

Numeric Types: int, float, complex

Sequence Types: list, tuple, range

Mapping Type: dict

Set Types: set, frozenset

Boolean Type: bool

Binary Types: bytes, bytearray, memoryview

None Type: NoneType

Getting the Data Type

You can get the data type of any object by using the type() function:

Example

Print the data type of the variable x:

```
x = 5
print(type(x))
```

Setting the Data Type

In Python, the data type is set when you assign a value to a variable:

Example

```
x = "Hello World" #string
```

```
x = 20 # int (integer)
        # float
x = 20.5
      # Complex
x = 1j
x = ["apple", "banana", "cherry"] #list
x = ("apple", "banana", "cherry") #tuple
x = range(6) #range
x = {"name" : "John", "age" : 36} #dictionary
x = {"apple", "banana", "cherry"} #set
x = frozenset({"apple", "banana", "cherry"})
x = True
x = "Hello"
x = bytearray(5)
```

Setting the Specific Data Type

If you want to specify the data type, you can use the following constructor functions:

```
Example
x = str("Hello World")
x = int(20)
x = float(20.5)
x = complex(1j)
x = list(("apple", "banana", "cherry"))
x = tuple(("apple", "banana", "cherry"))
x = range(6)
x = dict(name="John", age=36)
x = set(("apple", "banana", "cherry"))
x = frozenset(("apple", "banana", "cherry"))
```

print(x)		
<pre>print(type(x))</pre>		