**Python Key Words**

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| --- | --- | --- |
| **Example** | **Data Type** | **Try it** |
| x = "Hello World" | str | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_str) |
| x = 20 | int | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_int) |
| x = 20.5 | float | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_float) |
| x = 1j | complex | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_complex) |
| x = ["apple", "banana", "cherry"] | list | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_list) |
| x = ("apple", "banana", "cherry") | tuple | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_tuple) |
| x = range(6) | range | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_range) |
| x = {"name" : "John", "age" : 36} | dict | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_dict) |
| x = {"apple", "banana", "cherry"} | set | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_set) |
| x = frozenset({"apple", "banana", "cherry"}) | frozenset | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_frozenset) |
| x = True | bool | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_bool) |
| x = b"Hello" | bytes | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_bytes) |
| x = bytearray(5) | bytearray | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_bytearray) |
| x = memoryview(bytes(5)) | memoryview | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_memoryview) |
| x = None | NoneType |  |

**Setting Specific Data Types**

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| **Example** | **Data Type** | **Try it** |
| x = str("Hello World") | str | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_str2) |
| x = int(20) | int | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_int2) |
| x = float(20.5) | float | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_float2) |
| x = complex(1j) | complex | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_complex2) |
| x = list(("apple", "banana", "cherry")) | list | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_list2) |
| x = tuple(("apple", "banana", "cherry")) | tuple | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_tuple2) |
| x = range(6) | range | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_range2) |
| x = dict(name="John", age=36) | dict | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_dict2) |
| x = set(("apple", "banana", "cherry")) | set | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_set2) |
| x = frozenset(("apple", "banana", "cherry")) | frozenset | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_frozenset2) |
| x = bool(5) | bool | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_bool2) |
| x = bytes(5) | bytes | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_bytes2) |
| x = bytearray(5) | bytearray | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_bytearray2) |
| x = memoryview(bytes(5)) | memoryview | [Try it »](https://www.w3schools.com/python/trypython.asp?filename=demo_type_memoryview2) |

**Basic Random Functions in Python**

First you need to import random before using any random function

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| **Function** | **What It Does** | **Example** |
| random.random() | Random float between **0.0 and 1.0** | random.random() → 0.6789 |
| random.randint(a, b) | Random **integer** between a and b (inclusive) | random.randint(1, 6) → 4 |
| random.uniform(a, b) | Random **float** between a and b | random.uniform(2, 5) → 3.72 |
| |  | | --- | | random.choice(seq) | | |  | | --- | | Randomly picks **one item** from a list/string/etc | | |  | | --- | | random.choice(['A','B']) → 'B' | |