Cheatography

Python Type Hints Cheat Sheet

by MrBeverage via cheatography.com/197083/cs/42835/

Built-in Types

x = 1	Integer with no type
x: int = 1	Integer with explicit type
x: float = 1.0	Float
x: bool = True	Boolean
x: str = "test"	String
s: bytes = b"test"	Bytes

Explicit Collections (from typing import ...)

x: List[int] = [1]	Explicitly typed list
x: Set[int] = { 2, 3 }	Explicitly typed set
x: Dict[str, float] = { "str": 1.0 }	Explicitly typed dict
x: Tuple = (1, "yes", 2.5)	Explicitly typed tuple
x: Tuple = (1, 2, 3)	Explicitly typed open tuple
x: list[int | str] = [1, 2, "test", "true"]	Union type (version 3.10+)
x: Optional[str] = x | None **or** Union[X, None]	Optional type (union)
⬆☐ "test" if condition() else None	Optional type (conditional)

Collections (from typing import ...)

x: list[int] = [1]	Array
x: set[int] = { 1, 2 }	Set
x: dict[str, float] = { "test", 1.0 }	Dictionary / Hash Table
x: tuple[int, str, float] { 1, "yes", 2.5 }	Tuple with 3 values
x: tuple[int, ...] = { 1, 2, 3 }	Tuple of variable size

Functions (from typing import...)

def **function(x: int) -> str**	Basic function with a return value
def **function(x: int = 1) -> str**	Basic function with a default value
def **function(x)**	Basic function with no argument type
x: Callable[[int, float], float]	Function as a class
def **gen(n: int) -> Iterator[int]**	Generator function that yields ints
def **function(self, *args: str, **kwargs: str) -> int**	All position args and keywords are strings

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