

Python Cheat Sheet - Data Types

Code Club South Africa

Strings

Any string of characters.

EG: "This is a string." - Strings are written in quotation marks

str() - Used to convert something to a string.

EG: str(25) will turn the integer 25 into the string "25"

Comes in handy when adding integers to sentences.

Integer

Any number from negative infinity to positive infinity that does not have a decimal point.

EG: -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5 - These are all integers.

int() - Used to convert something to an integer.

EG: int("25") will turn the string "25" into the integer 25.

Comes in handy when taking user inputs as they are saved as strings.

Floating Point Numbers

Any number from negative infinity to positive infinity that has a decimal point.

EG: -1.5, 12.0, 34.6757 - These are all floating point numbers.

float() - Used to convert other types into a floating point number.

EG: float(25) will turn the integer 25 into the floating point 25.0

Comes in handy when you need to compare an integer to a floating point number.

Complex Numbers

Complex numbers have a "real" part and an "imaginary" part, shown as the letter j.

EG: 5j, 10j, 5 + 5j, 10 + 0j - These are complex numbers. (Algebra uses complex numbers)

complex() - Used to convert other types into a complex number.

complex(25) - Used to convert the integer 25 to the complex number 25 + 0j.

Comes in handy when doing algebra maths with user inputs.