

# Concept: Data Types and Type Casting

Python has several built-in data types such as integers (int), floating-point numbers (float), strings (str), and booleans (bool). Each data type represents a specific kind of data that determines the operations you can perform on it.

Type casting is converting one data type to another, such as changing a string to an integer. Use `int()`, `float()`, or `str()` for conversion.

Be cautious when casting—casting an invalid string to an integer will cause an error. Use exception handling when appropriate.

Example: converting user input (which is a string) into a number for calculation.

Python also supports complex numbers and the `None` type for representing null values.

```
x = 5
y = 2.5
z = '10'
print(type(x), type(y), type(z))

z = int(z)
print(x + z)

temp = 98.6
print('Temperature:', str(temp) + '°F')
```