

Day 2

Data types and string manipulation

Data types

- String

"Hello"[1] = "e", "123"[2] = "3"

- float

123.45

- Boolean

True / False

- Integer

$$\begin{array}{r} 123456789 \\ = \\ 123 - 456 - 789 \end{array}$$

Type Error, Type checking, Type Conversion

function have required types

type(variable)
returns the type
of variables

str(variable) converts variable
to string
float(variable), int(variable)

Mathematical operators

+ - * / **
↑ returns float
Pow $2^3 = 2^3$

Order: PEMDASLR
() , * , / , + , -
↑
Prioritize the left operation →

↳ Number manipulation and F-strings

• `round(number, no. of places)`

$X = 2.6666 \rightarrow \text{round}(X, 1) = 2.7$ / $\text{round}(X) = 2$ $\nearrow \text{floor}(X)$

• `+=`, `-=`, `/=`, `*=`

↳ F-string

`score = 0`

`f"Your score is {score}"` \nearrow converts score to string