## Basics

interpreted

REPL

Read Eval Print Loop

Data = everything is an object

## installation

### ubuntu

$sudo apt install python

$sudo apt install python3-pip

$pip install flask

### comments

# single line

doc strings used as multiline

""" """

''' '''

## Data Types

### basic

int

float

str

complex

4+6i

4+6j

### bool

True

False

## Functions

### general

print

type

### sequences

len

## strings

text data

ascii, unicode

index

negative index

error prone

slice

no indexerror

step

| p | u | s | h | p | a |
| --- | --- | --- | --- | --- | --- |
| 0 | 1 | 2 | 3 | 4 | 5 |
| -6 | -5 | -4 | -3 | -2 | -1 |

immutable

### 

### string functions:

upper, lower, capitalize, title

index, rindex, count

isalpha, isalnum, isdigit

replace

split, splitlines

join

… … …

… … …

### escape sequences:

\n new line

\t tab

\b backspace

\\ \

\’ ‘

\” “

\r, \v, \f

### doc strings:

""" """

''' '''

## Data Structures

## list

any kind of data

all kinds of data

duplicates allowed

index

negative index

slice

step

nesting

mutable

### list functions

sort, sort(reverse=True)

reverse

index, count

insert, append, extend

remove, pop, clear

copy

## 