

Python Syntax

Computing

The core syntax on one sheet — collections, control flow and functions.

Python 3. Indentation defines blocks; there are no braces.

Collections

list [1, 2, 3] – ordered, mutable

tuple (1, 2) – ordered, immutable

dict {'a': 1} – key/value

set {1, 2} – unique, unordered

Control flow

if x: / elif y: / else:

for i in range(10):

while cond:

break · continue · pass

Functions

def f(a, b=1, *args, **kw):

return a + b

lambda x: x * 2

f-string: f'{name} is {age}'

Idioms

[x*2 for x in xs if x > 0]

with open(p) as f:

enumerate(xs) · zip(a, b)

if __name__ == '__main__':

A mutable default argument is shared across calls. Use None as the default and create the list inside.