

~~Python~~ Python Basic Theory FSN for Theory

I - Intro to Python

Programmer's language
story tell

Python is interpreted
high level general purpose
programming language

- code readable, indent
- object oriented approach
- mult. class. for
- community support

Interprete
already source code of program
parse to instructions

T - machine code

- fast style bc of code
- for software dev shr

~~per~~

python perform - slower

Type desc: dyn type - dr

Guido Van Rossum | 1980

1.0 - 91

3.0 - 2008

EDE: prog dec for software development

- save, debug, syntax highlight

2- Python - Variables & Operators

Reserved words

- Used by python language itself

Python identifier

Name to identify a variable, class, function / object

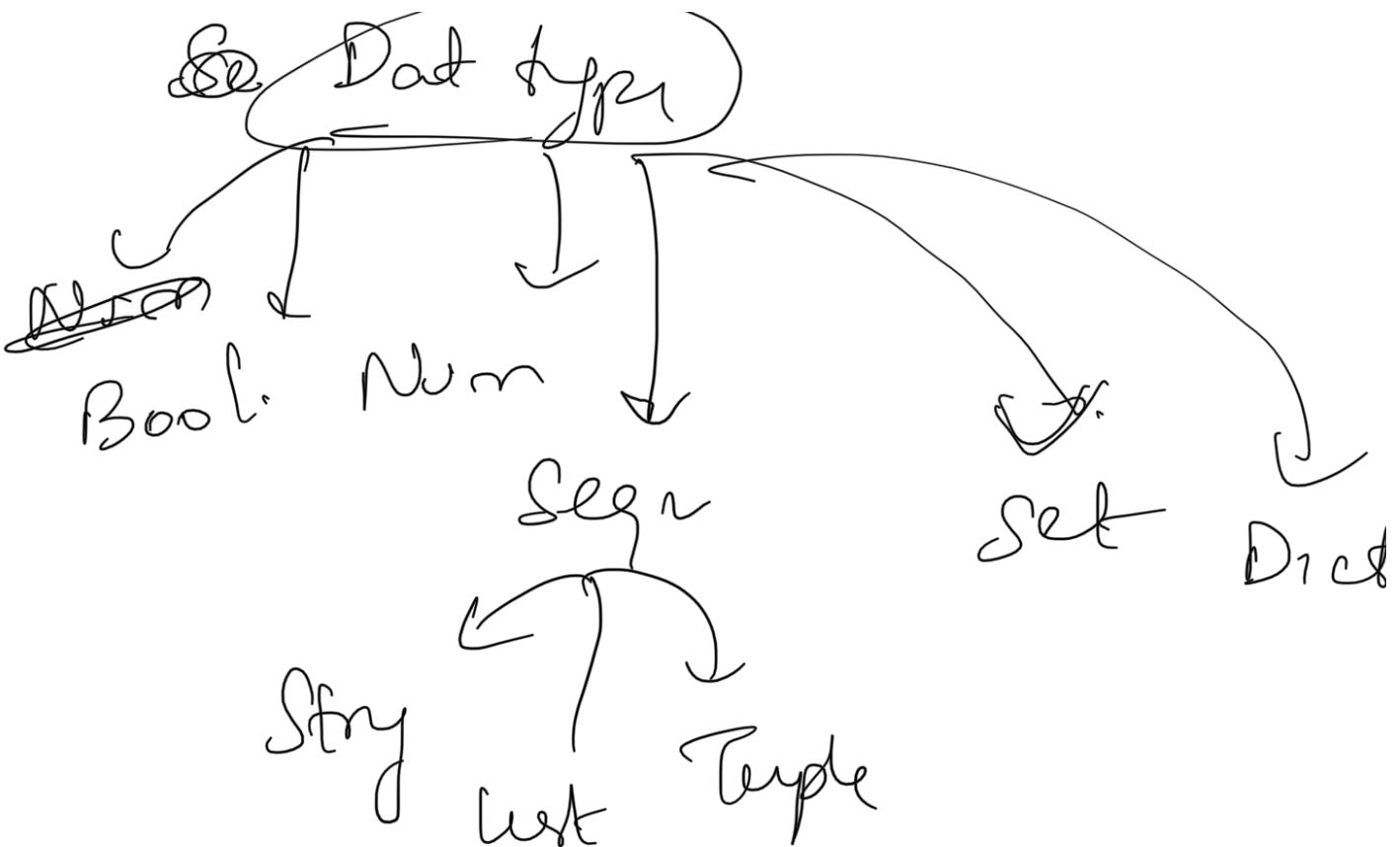
~~@, \$, special char~~



Uppercase

- prf
- stopvt

M -- special re



Variables

- ↳ reserved memory location
to store values
- not need declaration
- start with a

Expressions

- comb of

Statement

- unit of code
- has an effect

val Varah
S open

like cret

Opn
D²B C M²C
Amth // floor

Assy
Btwse
Compar !
membshp.

Ident

Coqnt

rr statement

~~if true~~
cont legal exprn.
dot composed. &
decl is made

(elf, chi)
lf $\neq 0$

break

Exp
CUPM $\sim + -$
~~not~~ * / % //

t -

>> <<

Q

A }

$<=$ $>$ $=$

$\langle \rangle =$

2 - P - Vars op - update

logical

to combine conditional statements

Identity operators

- compare objects, not just equal
- actually same object

(mem locs)

Membership Op

- if obj present ~ as object

Python Strings Part 1

Sequence

L is ordered collection
of similar / diff data types
L string, list, tuple

String

member op →
return (boolean)

Math functions

list

→ similar to arrays in C

\ separated by ,

Tuple & List Comprehensions

Use seq def type [] to make

Tuple () ~~list~~

- immutable, element ~~values~~ can't be updated

- read only of lists

List Comprehension

Provide concise way to create lists

- to make new list

where each element is
1, 2, 3, ..., n

return off own year
to element of other list

- square = list(map(lambda

~~a: a**2,~~

~~range(10)))~~

Dictionary & Set

Line of # told by

- associate array

- # key val pairs.

- associate array for

key val pairs

- val no ref

key unq



→ store collect of
data | multipl item in
a singl variable

- collect of data ordered,
unindexed