

CS 301 - Lecture 14

Logistics

①

- project 6 due tomorrow.

- Midterm 2: Thursday, November 8th.
7:15 - 9:15 pm.

Today

* Command line arguments

* Binning / Grouping

* JSON files

* Tuples.

\$

python

30

args.py
argv[0]

10
argv[1]

20
argv[2]

(2)

Binning/ Grouping

Stud,	Group #
A,	1
B,	2
C,	1
D,	3
E,	2

csv file

Key	Value
Group #	Students
1	[A, C]
2	[B, E]
3	[D]

group-dict

G #	Studs.
1	[A] [A, C]
2	[B]

③

JSON - Java Script Object Notation

Keys in a dict

X	Y	Addr Building
0	30	CS
10	20	Physics



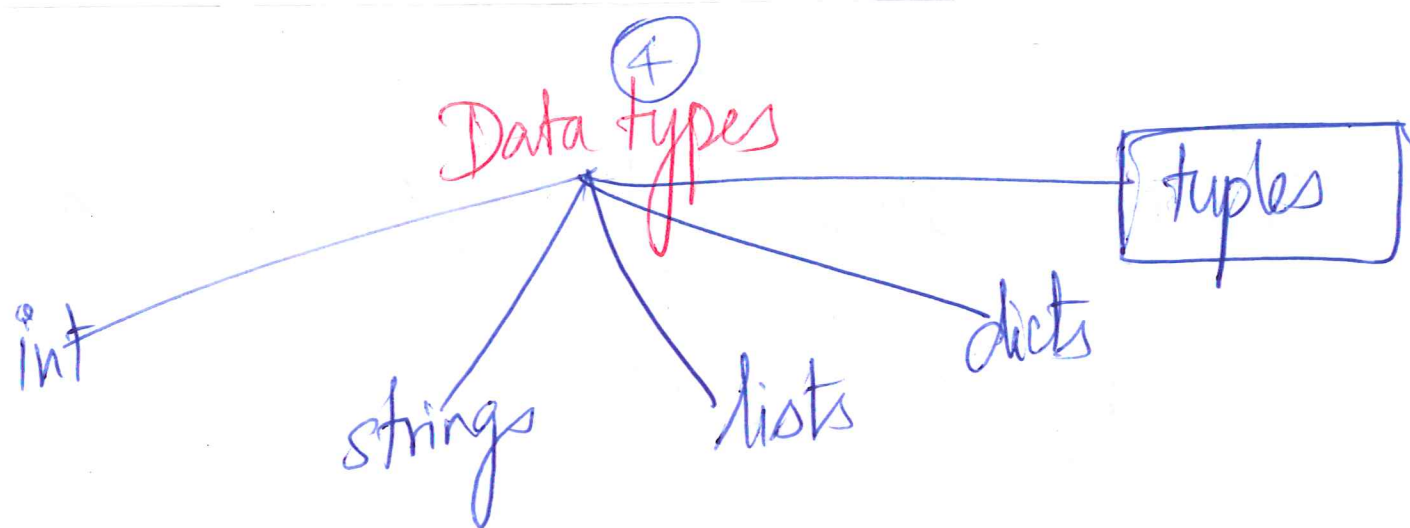
dict

Key [x, y]	Value (Name)
[0, 30]	'CS'
[10, 20]	'Physics'

→ Keys are immutable.

Tuples
pt1 = (0, 30)

Tuples are immutable!



(x_1, y_1)

(x_2, y_2)

$$d = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}$$