

DS2000

2/28- Tues. 

Admin

- mini quiz due 3/3 (no late submissions)
- no quiz this week :)

Agenda

1. Dictionaries - mechanics
2. Dictionaries - why lists
3. Python

→ Fn

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## 1. Dictionaries - mechanics

Dict structure - one label, many values

list []      }      mutable  
2D list [ [] ]      }  
Tuple ()      }      immutable  
Dictionary {}      }      mutable \*

Dictionary is like a list, but we have  
keys instead of positions

Key, value pairs

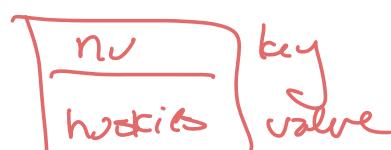
k1	k2	k3	kr
v1	v2	v3	v4

keys  
values

Get to value through its key

1. Create

$d = \{ \}$   
 $d = \{ "nu" : "huskies" \}$   
key      }  
value



2. Add something

$d["bu"] = "temers"$   
key      }  
value



3. Look at one thing

print(d["nu"])

key

# hushie >

value

4. Look at all the things

for key, value in d.items():

print(key, value)

nu hushies

bc terniers

Dictionaries are mutable

\* keys must be immutable \*

(tuples are ok, lists are not)

\* keys must be distinct \*

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