Compsci 101 Dictionaries, Jotto Part 1 of 2

```
d = \{\}
```

d.keys()

d.values()

d[key]

d.get(key,dv)

d.items()

Susan Rodger March 23, 2021

P is for ...



Python

Whatever you want it to be? Language!!!

Parameter

When an argument becomes a variable

Power Cycle

Not the last resort. But works

P2P

From networking to collaboration

Dictionary Metaphors

- Look up Duke Blue and get #001A57 or (0,26,87)
 - Key is name of color, value is hex or (r,g,b)
- Look up your address, your physical home
 - Key is address, value is the actual home
- Look up <u>www.cs.duke.edu</u> and get 152.3.140.1
 - Key is URL, value is IP address, browsers

Dictionary Syntax and Semantics

Syntax/Function	Meaning
$d = \{\}$	Initialize empty dictionary d
d.keys()	Collection of keys in dictionary
<pre>d.values()</pre>	Collection of values
d[key]	Value associated with key (error if key not in d)
d.get(key,dv)	Value associated with key (dv if key not in d, dv is optional)
d.items()	Collection of (key,value) tuples in d

danah boyd

Dr. danah boyd is a Principal Researcher at Microsoft Research, ... and a Visiting Professor at New York University. Her research is focused on addressing social and cultural inequities by understanding the relationship between technology and society.



"If I have learned one thing from my research, it's this: social media services like Facebook and Twitter are providing teens with new opportunities to participate in public life, and this, more than anything else, is what concerns many anxious adults."

Compsci 101 Dictionaries, Jotto Part 2 of 2

```
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d.items()

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Dictionary Iteration (unordered!)

- Iterate through keys:
 - for k in d:
 - for k in d.keys():

- Iterate through pairs:
 - for (k,v) in d.items():
 - for k,v in d.items():

Sorting a list – sorted()

Create a new list in alphabetic order

```
lst = ['plum', 'apple', 'kiwi']
x = sorted(list)
```

Using sets with sorted