COMP 110

LS19 - Dictionaries

Dictionaries

Keys	Values
Flavor	Num Orders
Chocolate	12
Vanilla	8
Strawberry	5

Flavor Num Orders Chocolate 12 Vanilla 8 Strawberry 5



Also called: Map, Hashmap, Key-Value Store

Syntax

Data type:

```
name: dict[<key type>, <value type>]
```

ice_cream: dict[str, int]

Constructor:

dict()

Dictionary Operations

Adding elements

We use subscription notation.

```
<dict name>[<key>] = <value>
```

```
ice_cream["chocolate"] = 12
```

Removing elements

Similar to lists, we use pop()

<dict name>.pop(<key>)

ice_cream.pop("mint")

Access + Modify

To access a value, use subscription notation:

```
<dict name>[<key>]
ice_cream["vanilla"]
```

To modify, also use subscription notation:

```
<dict name>[<key>] = new_value
ice_cream["vanilla"] = 9 or ice_cream["vanilla"] += 1
```

Length of dictionary

len(<dict name>)

len(ice_cream)

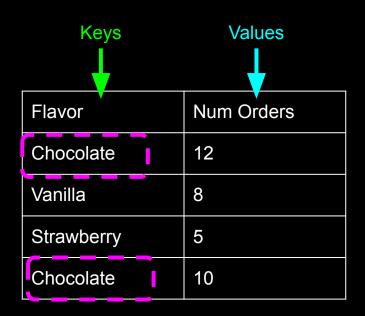
Check if key in dictionary

<key> in <dict name>

"mint" in ice_cream

"chocolate" in ice_cream

Important Note: Can't Have Multiple of Same Key



(Duplicate *values* are okay.)

