

Dictionaries

- same as a "hash table" in other languages
- similar to a list, but uses word or phrases as the index value, known as a "key"
- dictionaries differ from lists, in that they are not guaranteed to maintain their order

```
my_dict = {}
```

```
my_dict = {"first": 1, "second": 2, ...}
```

```
my_dict["first"]
```

Dictionary Functions

`len(my_dict)` - returns the number of elements

`my_dict.keys()` - returns a list of keys

`my_dict.values()` - return a list of values

`my_dict.items()` - returns a list of both keys and values

`my_dict.get(key, default)` - returns a single item, if found, otherwise returns a default

`my_dict.pop(key, default)` - returns and removes a single item, if found, else default

`del my_dict["key"]` - deletes an item

`my_dict.popitem()` - removes a random key