Dictionaries, Part 1

INTERMEDIATE PYTHON



Hugo Bowne-AndersonData Scientist at DataCamp



List

```
pop = [30.55, 2.77, 39.21]
countries = ["afghanistan", "albania", "algeria"]
ind_alb = countries.index("albania")
ind_alb
```

1

```
pop[ind_alb]
```

2.77

- Not convenient
- Not intuitive

```
pop = [30.55, 2.77, 39.21]
countries = ["afghanistan", "albania", "algeria"]
....
{
```

```
pop = [30.55, 2.77, 39.21]
countries = ["afghanistan", "albania", "algeria"]
....
{"afghanistan":30.55, }
```



```
pop = [30.55, 2.77, 39.21]
countries = ["afghanistan", "albania", "algeria"]
...
world = {"afghanistan":30.55, "albania":2.77, "algeria":39.21}
world["albania"]
```

2.77

Dictionaries, Part 2

INTERMEDIATE PYTHON



Hugo Bowne-AndersonData Scientist at DataCamp



Recap

```
world = {"afghanistan":30.55, "albania":2.77, "algeria":39.21}
world["albania"]
```

2.77

```
{'afghanistan': 30.55, 'albania': 2.81, 'algeria': 39.21}
```



Recap

Keys have to be "immutable" objects

```
{0:"hello", True:"dear", "two":"world"}

{0: 'hello', True: 'dear', 'two': 'world'}

{["just", "to", "test"]: "value"}

TypeError: unhashable type: 'list'
```

Principality of Sealand





¹ Source: Wikipedia



```
world["sealand"] = 0.000027
world
```

```
{'afghanistan': 30.55, 'albania': 2.81, 'algeria': 39.21, 'sealand': 2.7e-05}
```

```
"sealand" in world
```

True



```
del(world["sealand"])
world
```

```
{'afghanistan': 30.55, 'albania': 2.81, 'algeria': 39.21}
```

List



List	Dictionary
Select, update and remove: []	Select, update and remove: []

List	Dictionary
Select, update and remove: []	Select, update and remove: []

List	Dictionary
Select, update and remove: []	Select, update and remove: []
Indexed by range of numbers	

List	Dictionary
Select, update and remove: []	Select, update and remove: []
Indexed by range of numbers	Indexed by unique keys



List	Dictionary
Select, update and remove: []	Select, update and remove: []
Indexed by range of numbers	Indexed by unique keys
Collection of values order matters select entire subsets	

List	Dictionary
Select, update and remove: []	Select, update and remove: []
Indexed by range of numbers	Indexed by unique keys
Collection of values order matters select entire subsets	Lookup table with unique keys

