



In this lecture



- Dictionary
- Creating a dictionary
- Accessing components
- Modifying components

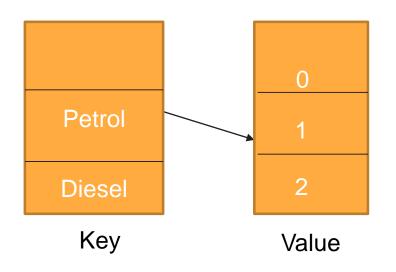


Dictionary

Dictionary



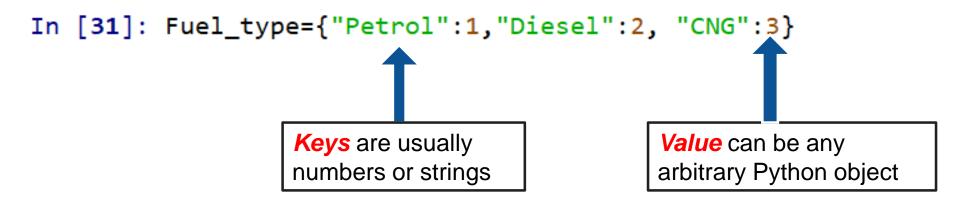
- Python dictionaries is an example of hash-table data structure
- Work like key-value pairs, where the keys are mapped to values
- Dictionaries are enclosed by curly braces { }



Creating a dictionary



Create the dictionary with different fuel types category



To print the dictionary

```
In [32]: print(Fuel_type)
{'Petrol': 1, 'Diesel': 2, 'CNG': 3}
```





 To know the value of the key Petrol from the Fuel_type

```
In [20]: print(Fuel_type['Petrol'])
1
```

 We can also access remaining values in the above format





- To access the keys from dictionary Fuel_type
- Syntax: dictionary_name.keys()

```
In [35]: Fuel_type.keys()
Out[35]: dict_keys(['Petrol', 'Diesel', 'CNG'])
```





- To access the values from dictionary Fuel_type
- Syntax: dictionary_name.values()

```
In [36]: Fuel_type.values()
Out[36]: dict_values([1, 2, 3])
```





- To access both keys and values simultaneously from dictionary Fuel_type
- Syntax: dictionary_name.items()

```
In [22]: Fuel_type.items()
Out[22]: dict_items([('Petrol', 1), ('Diesel', 2), ('CNG', 3)])
```

Returns elements in a list format with (key, value) tuple pairs

Modifying a dictionary



- Adding new key value pair to the existing dictionary Fuel_type using keys
- Syntax: dictionary_name[key]=value

```
Fuel_type['electric']=4
```

Print the updated dictionary

```
In [31]: print(Fuel_type)
{'Petrol': 1, 'Diesel': 2, 'CNG': 3, 'electric': 4}
```

Modifying dictionary using update()



- Adding a new key value pair to the existing dictionary Fuel_type using update() function
- Syntax: dictionary_name.update({key:value})

```
Fuel_type.update({'electric': 4})
```

Print the updated dictionary

```
In [31]: print(Fuel_type)
{'Petrol': 1, 'Diesel': 2, 'CNG': 3, 'electric': 4}
```

Modifying dictionary



- Modify the value of an existing key
- Assign value to be changed to corresponding key of the dictionary

```
In [31]: print(Fuel_type)
{'Petrol': 1, 'Diesel': 2, 'CNG': 3, 'electric': 4}
```

Here the value of 3 should be updated to 5

```
Fuel_type['CNG']=5
```

Print the updated dictionary

```
In [40]: print(Fuel_type)
{'Petrol': 1, 'Diesel': 2, 'CNG': 5, 'electric': 4}
```





- del- removes the key value pairs
- Syntax: del dictionary_name[key]
- Dropping the key Petrol from Fuel_type

```
del Fuel_type['Petrol']
```

Print the updated dictionary

```
In [42]: print(Fuel_type)
{'Diesel': 2, 'CNG': 5, 'electric': 4}
```





- clear() removes all the key value pairs
- Syntax: dictionary_name.clear()

```
Fuel_type.clear()
```

Print the updated dictionary

```
In [8]: print(Fuel_type)
{}
```

Summary



- Create dictionary
- Accessing components
- Modifying dictionary

```
peration == "MIRROR_X":
              . r or _object
mirror_mod.use_x = True
mirror_mod.use_y = False
mirror_mod.use_z = False
 _operation == "MIRROR_Y"|
irror_mod.use_x = False
lrror_mod.use_y = True
 mirror_mod.use_z = False
  operation == "MIRROR_Z":
  rror_mod.use_x = False
  rror mod.use y = False
  Irror mod.use z = True
   ob.select= 1
   er ob.select=1
   ntext.scene.objects.active
  "Selected" + str(modifier
   ata.objects[one.name].sel
  Int("please select exaction
```

THANK YOU