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Python Dictionaries and Frequency Tables: Takeaways

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Syntax

• Check if a certain value exists in the dictionary as a key:

```
dictionary = {'key_1': 100, 'key_2': 200}
'key_1' in dictionary # Outputs True
'key_5' in dictionary # Outputs False
100 in dictionary # Outputs False
```

• Use the in operator to check for dictionary membership:

```
content_ratings = {'4+': 4433, '9+': 987, '12+': 1155, '17+': 622}
print('12+' in content_ratings)
```

• Update dictionary values:

```
dictionary = {'key_1': 100, 'key_2': 200}
dictionary['key_1'] += 600 # This will change the value to 700
```

• Create a frequency table for the unique values in a column of a dataset:

```
frequency_table = {}
for row in a_data_set:
    a_data_point = row[5]
    if a_data_point in frequency_table:
        frequency_table[a_data_point] += 1
    else:
        frequency_table[a_data_point] = 1
```

Loop over a dictionary:

```
content_ratings = {'4+': 4433, '9+': 987, '12+': 1155, '17+': 622}
for iteration_variable in content_ratings:
    print(iteration_variable)
```

• Compute the frequency for defined intervals:

Concepts

- We can check if a certain value exists in the dictionary as a key using an in operator. An in expression always returns a Boolean value.
- We also call the number of times a unique value occurs the **frequency**. We call tables that map unique values to their frequencies **frequency tables**.
- When we iterate over a dictionary with a for loop, we loop over the dictionary keys by default.

Resources

• Dictionaries in Python

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