

Comprehensive Python Programming

From Fundamentals to Advanced

(21 Oct 2024 - 13 Nov 2024)

IHUB DivyaSampark IIT Roorkee

Dictionaries

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Led by : Shreyas Shukla

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Unordered mappings for storing objects.

Dictionaries use a **key-value** pairing instead. This key-value pair allows users to quickly grab objects without needing to know an index location.

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Dictionaries use **curly braces** and **colons** to signify the keys and their associated values.

```
{'key1':'value1','key2':'value2'}
```

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So when to choose a list and when to choose a dictionary? **Led by : Shreyas Shukla**

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Dictionaries: Objects **retrieved by key name.**

Unordered and can not be sorted.

Lists: Objects **retrieved by location.**

Ordered Sequence can be indexed or sliced.

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Tuples

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Very similar to lists with one key difference -
immutability.

Once an element is inside a tuple, it can not be
reassigned.

Tuples use parenthesis: **()**

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Sets

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Unordered collections of **unique** elements.

Meaning there can only be one representative of the same object.

Let's see some examples!

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