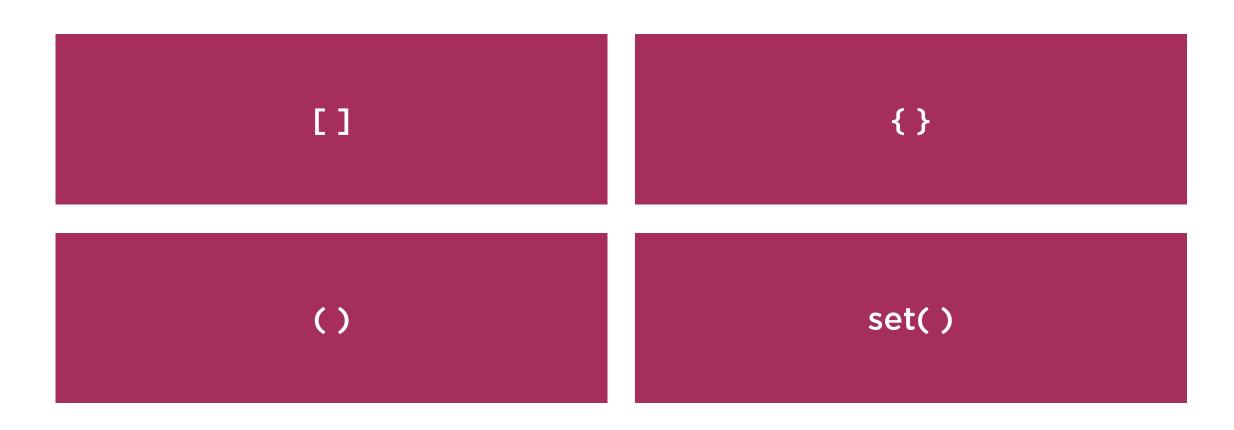
Introduction to Python Data Structures



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Data Structures





Getting Started

Data Structures
Concepts

Basic Demos

Stock Analysis
Applications



List []



- Collection of items
- Membership (in, not in)
- Methods (append)
- Sort



Find Stocks with 2% Change



Dictionary { }



- Key value pairs
- Methods
- Constant time look up



Join Data



Tuple ()



- Immutable
- Methods
- Model records



Records



set()



Core Methods & Ideas

- Methods
- Unique membership



Unique Stock Symbols



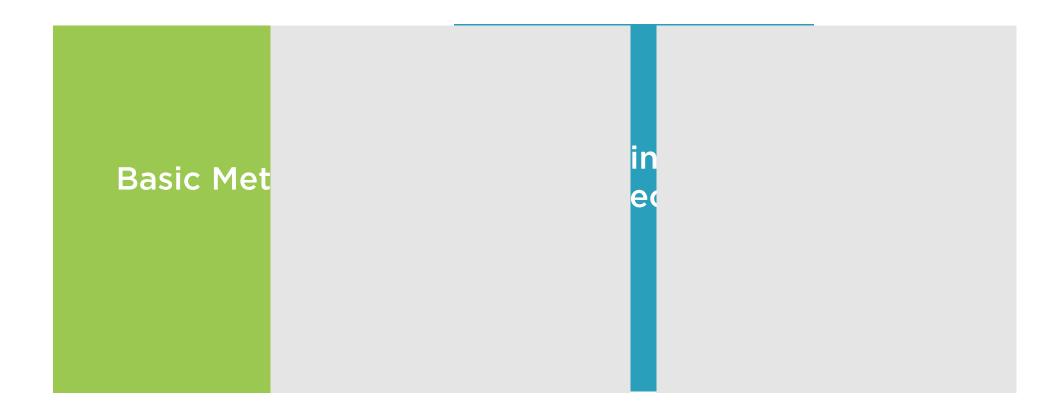
List []



- Collection of items
- Membership (in, not in)
- length
- append
- insert
- pop
- sort



List





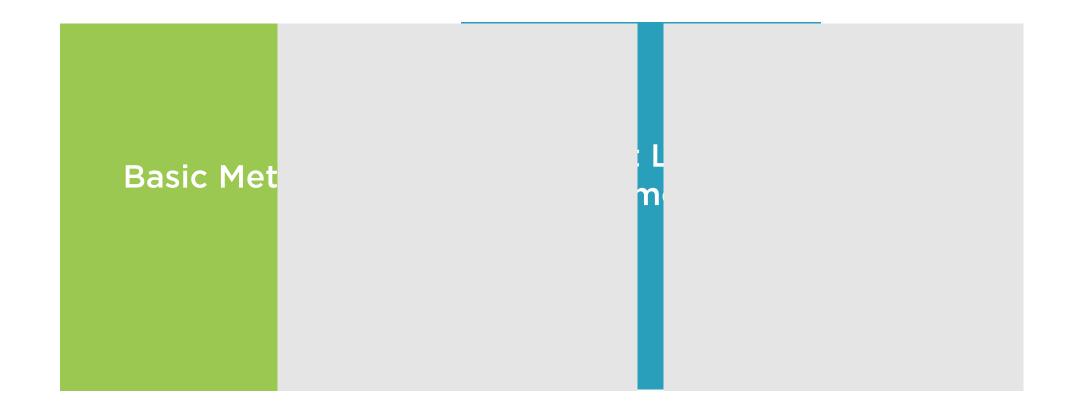
Dictionary { }



- Key value pairs
- Assignment or updating
- Membership (in, not in)
- Delete items
- Iterating (key, values)
- Length
- Constant time look up



Dictionary





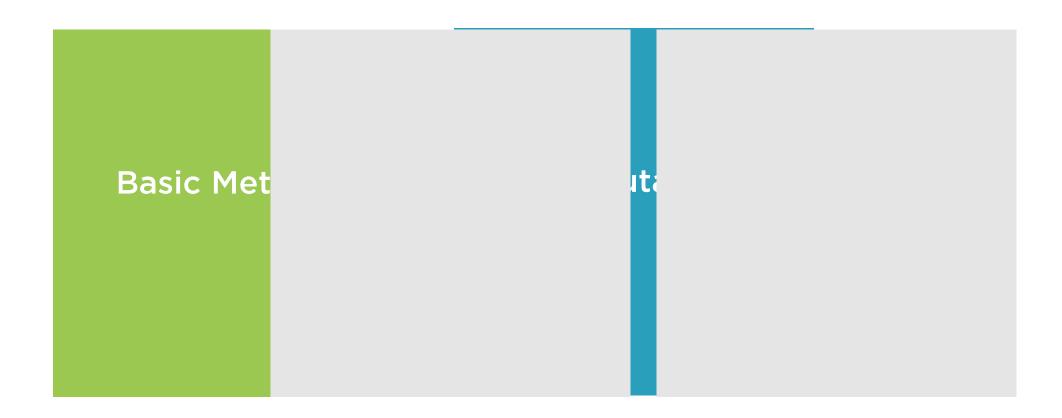
Tuple ()



- Immutable
- Common use fields in database
- Access by position (zero)
- Functions (len, max, min, splice)
- Membership (in, not in)



Tuple





set()



Core Methods & Ideas

- set()
- add / discard
- update
- union / intersection
- in / not in
- Unique membership



set()





Basics



Demo



Nested Structures

