

Introduction to Lists in Python

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This video provides an in-depth tutorial on one of the most important data types in Python programming: **lists**.

Key Topics

- **What is a List?** Lists are an ordered collection of items, enclosed in square brackets and separated by commas.
- **Creating and Accessing Lists:** You can create a list by assigning values to a variable in square brackets. You can also print the list to check its data type.
- **List Indexing:** List items are accessed using indices, starting from 0. Negative indexing can be used to access elements from the end of the list.
- **List Properties:** Lists are **changeable** (or mutable) and can contain different data types simultaneously.
- **List Operations:** The video demonstrates checking for elements with the ``in`` keyword and performing slicing to extract parts of a list.
- **List Comprehension:** This is a concise way to create lists on the fly, including conditional statements to filter elements.