

A **list** in Python is a **collection of items** that are **ordered, changeable (mutable)**, and **can hold different types of data**.

Simple Explanation:

Think of a **list** like a **basket** where you can keep **fruits, snacks, or anything else** — and you can **add, remove, or change** what's inside.

Example:

python

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```
fruits = ["apple", "banana", "cherry"]
```

- "apple", "banana", "cherry" are items in the list.
- You can change "banana" to "mango" later.
- You can add "grape" or remove "apple" .

Key Features:

- Use **square brackets** `[]`
- Items are **ordered**
- Can hold **any data**: numbers, strings, even other lists
- You can **change** items (unlike tuples)

Basic Operations:

python

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```
fruits = ["apple", "banana", "cherry"] print(fruits[0]) # Output: apple fruits[1] =  
"mango" # Change banana to mango fruits.append("grape") # Add grape to the end del
```

```
fruits[0] # Remove first item
```