

C: Lists

Key properties of lists:

- Sequence of items
- Enclosed in square brackets
- Indexed (subscripted) by integers starting at 0

Example:

```
my_list = ["alpha", "beta", "gamma"]
```

```
my_list[0]    is "alpha"
```

```
my_list[1]    is "beta"
```

```
my_list[2]    is "gamma"
```

Can be altered:

```
my_list[1] = "BETA"
```

```
my_list becomes ["alpha", "BETA", "gamma"]
```

Elements can be heterogeneous:

```
other_list = ["pi", 3.14159]
```

First element is a string, next is a float

Elements can be lists or other data structures:

```
meta_list = [ ["a","b"], ["c","d"] ]
```

```
meta_list[0] is ["a","b"]
```

```
meta_list[0][1] is "b"
```

Detailed example: demo.py in g03