




Intro to Lists




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Lists

- Lists are a type of *data structure* in Python
 - Lists are the most common sequence
 - Lists are *mutable*, which means, once defined, the individual elements can be changed
- To create a *list*, specify comma separated values, in between square brackets []
- Values included do not need to be all of the same type
- Each *list* item is assigned an index value, starting at 0



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Lists

- Create a list with random strings
`list1 = ['1', 'dog', 'cat', '789']`
- Print the list
`print(list1)`
- Get the length of the list
`print(len(list1))`
- Get the 2nd item in the list
`print(list1[1])`
- Get the 5th item in the list
`print(list1[4])` #Note: this doesn't exist!

For reference: <https://docs.python.org/3/tutorial/datastructures.html#list-comprehensions>



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Lists

- You can add items to a list
`list1.append("hello")`
- Remove items from a list
`list1.pop()` #removes the last item in the list
`print(list1)`
`list1.pop(1)` #removes the 2nd item in the list
`print(list1)`
- Check if an item is in a list
`print('dog' in list1)`
