Lists

Creating lists

✳ [a, b, c]	List of given values	[1, 2, 3, 4]
✳ list(x)	Converts to a list (iterated by "for")	list('abcd') → ['a', 'b', 'c', 'd']
✳ sorted(s)	Like list(), but returns a sorted list	sorted([3, 1, 2])

Basic operations

✳ s1 + s2	Joining lists	[1, 2, 3] + [4, 5, 6]
✳ s * n	Repeating a list	[1, 2, 3] * 10
s[n]	Access to link item	s[-1] (last item)
✳ s[a:b]	New sublist	s[1:] (everything but last)
s[n] = x	Sets item (works w\ [a:b])	s[0] = 'first'
del s[n]	Removes item (works w\ [a:b])	del s[0]
len(s)	List length	len([1, 2, 3])
x in s	Is item in a list?	3 in [1, 2, 3]
if s:	If list is not empty...	if l: print("There's something in the list!")

Changing lists

		s = [7, 3, 8]	→ [7, 3, 8]
s.append(x)	Adding an item	s.append(1)	→ [7, 3, 8, 1]
s.extend(l2)	Adding multiple items	s.extend([2, 99])	→ [7, 3, 8, 1, 2, 99]
s.pop()	Removes+ret. last item	last = s.pop()	→ [7, 3, 8, 1, 2]
s.pop(n)	Removes+ret. nth item	first = s.pop(0)	→ [3, 8, 1, 2]
s.remove(x)	Removes 1st occurance	s.remove(8)	→ [3, 1, 2]
s.sort()	Sorts list	s.sort()	→ [1, 2, 3]
s.reverse()	Reverses list	s.reverse()	→ [3, 2, 1]
s.clear()	Empties list	s.clear()	→ []

Information

s.index(x)	Position of an item	[4, 2, 3].index(2) → 1

Lists and strings

✳ r.split()	Splits string to words	"two words: hello world!".split()
✳ r.split(x)	Splits by a given delimiter	'12,42,63'.split(',')
r.join(s)	Joins s to a single string	', '.join(['H', 'V', 'J']) ''.join(['b', 'y', 'e'])

Lists and randomness

import random		s = [1, 2, 3]
random.shuffle(s)	Shuffles list	random.shuffle(s) → [2, 3, 1]
random.choice(s)	Selects random item	random.choice(['Roc', 'Pap', 'Sči'])

Details are in documentation:
https://docs.python.org/3/library/stdtypes.html#sequence-types-list-tuple-range

✳ Operations marked with this will create a new list

Overview of methods and operations with lists.