## Lists, Vectors, Arrays

or hold multiple values of the same type	hold
multiple values, possibly of different types.	
Elements are stored in order, and elements can be referenced by their	The first element
has 0 or 1 depending on the language. The	
array is the number of elements in it. An empty list has a of 0.	
You can an item to the beginning of a list or vector or the end.	an item to
Sometimes, lists can be inside other lists.	
In R and Python, you can take a slice of a list (or R vector) using the list indices:	
<pre>my_list[a:b]</pre>	
Example:	
my_list[3:6]	
In Python, a is the index of the value, b is the index of the EXCLUSIVE (meaning it's not included).	value
In R, the first number is the index of the value, and the second rethe value INCLUSIVE.	number is the index of
Assigning Values	
To change the value of an element in a list, assign a new value to it:	
<pre>my_list = [7,6,5,4] my_list[2] = 3 my_list</pre>	
my_list now contains	
If instead you assign a new value as:	
<pre>my_list = [7,6,5,4] my_list = [1,2,3] my_list</pre>	

my\_list now contains \_\_\_\_\_\_.