6. Working With Lists

looping through an entire list You'll often want to run through all entries in a list, performing the same task with each item

```
magicians = ['alice', 'david', 'carolina']
for magician in magicians:
print(magician)
```

making numerical lists Using the range() Function Python's range() function makes it easy to generate a series of numbers. For example, you can use the range() function to print a series of numbers like this: for value in range(1,5): print(value)

```
numbers = list(range(1,6))
print(numbers)
```

```
even_numbers = list(range(2,11,2))
print(even_numbers)
```

digits = [1, 2, 3, 4, 5, 6, 7, 8, 9, 0] >>> min(digits) 0 >>> max(digits) 9 >>> sum(digits)

#copy

my_foods = ['pizza', 'falafel', 'carrot cake']
v friend_foods = my_foods[:]

tuples

Lists work well for storing sets of items that can change throughout the life of a program. The ability to modify lists is particularly important when you're working with a list of users on a website or a list of characters in a game. However, sometimes you'll want to create a list of items that cannot change. Tuples allow you to do just that. Python refers to values that cannot change as immutable, and an immutable list is called a tuple. Defining a Tuple

A tuple looks just like a list except you use parentheses instead of square brackets.