str Methods: Functions Inside **Objects**

Methods

A method is a function inside of an object.

The general form of a method call is:

object.method(arguments)

String Methods

Consider the code:

>>> white rabbit = "I'm late! I'm late! For a very important date!"

To find out which methods are inside strings, use the function dir:

```
>>> dir(white_rabbit)
>>> ur(wnite_rappoit)
['__add__', '__class__', '__contains__', '__delattr__', '__doc__', '__eq__', '__format__',
'__ge__', '__getattribute__', '__getitem__', '__getnewargs__', '__gt__', '__hash__', '__init__',
'__iter__', '__le__', '__len__', '__lt__', '__mod__', '__mul__', '__ne__', '__new__', '__reduce_
'__reduce_ex__', '__repr__', '__rmod__', '__rmul__', '__setattr__', '__sizeof__', '__str__',
'__subclasshook__', 'capitalize', 'center', 'count', 'encode', 'endswith', 'expandtabs', 'find',
'format', 'format_map', 'index', 'isalnum', 'isalpha', 'isdecimal', 'isdigit', 'isidentifier',
'islower', 'isnumeric', 'isprintable', 'isspace', 'istitle', 'isupper', 'join', 'ljust', 'lower'
'lstrip', 'maketrans', 'partition', 'replace', 'rfind', 'rindex', 'rjust', 'rpartition', 'rsplit'
'rstrip', 'split', 'splitlines', 'startswith', 'strip', 'swancase', 'title', 'translate', 'unper
 'rstrip', 'split', 'splitlines', 'startswith', 'strip', 'swapcase', 'title', 'translate', 'upper',
     'zfill']
```

Passing str as an argument to dir gets the same result:

```
>>> dir(str)
```

For many of the string methods, a new string is returned. Since strings are immutable, the original string is unchanged. For example, a lowercase version of the str that white rabbit refers to is returned when the method lower is called:

```
>>> white rabbit.lower()
>>> "i'm late! i'm late! for a very important date!"
>>> white rabbit
>>> "I'm late! I'm late! For a very important date!"
```

To get information about a method, such as the lower method, do the following:

```
>>> help(str.lower)
```

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