

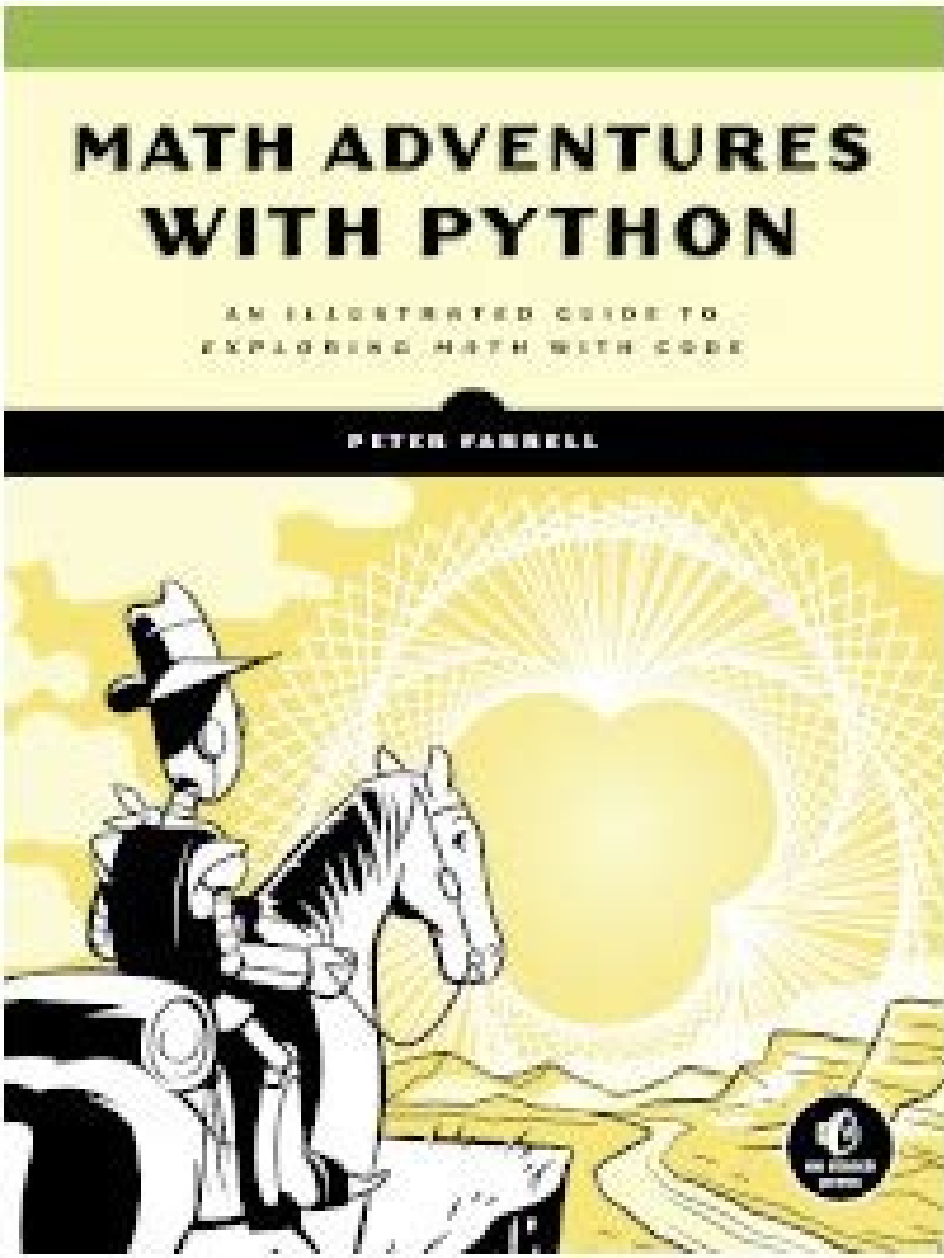
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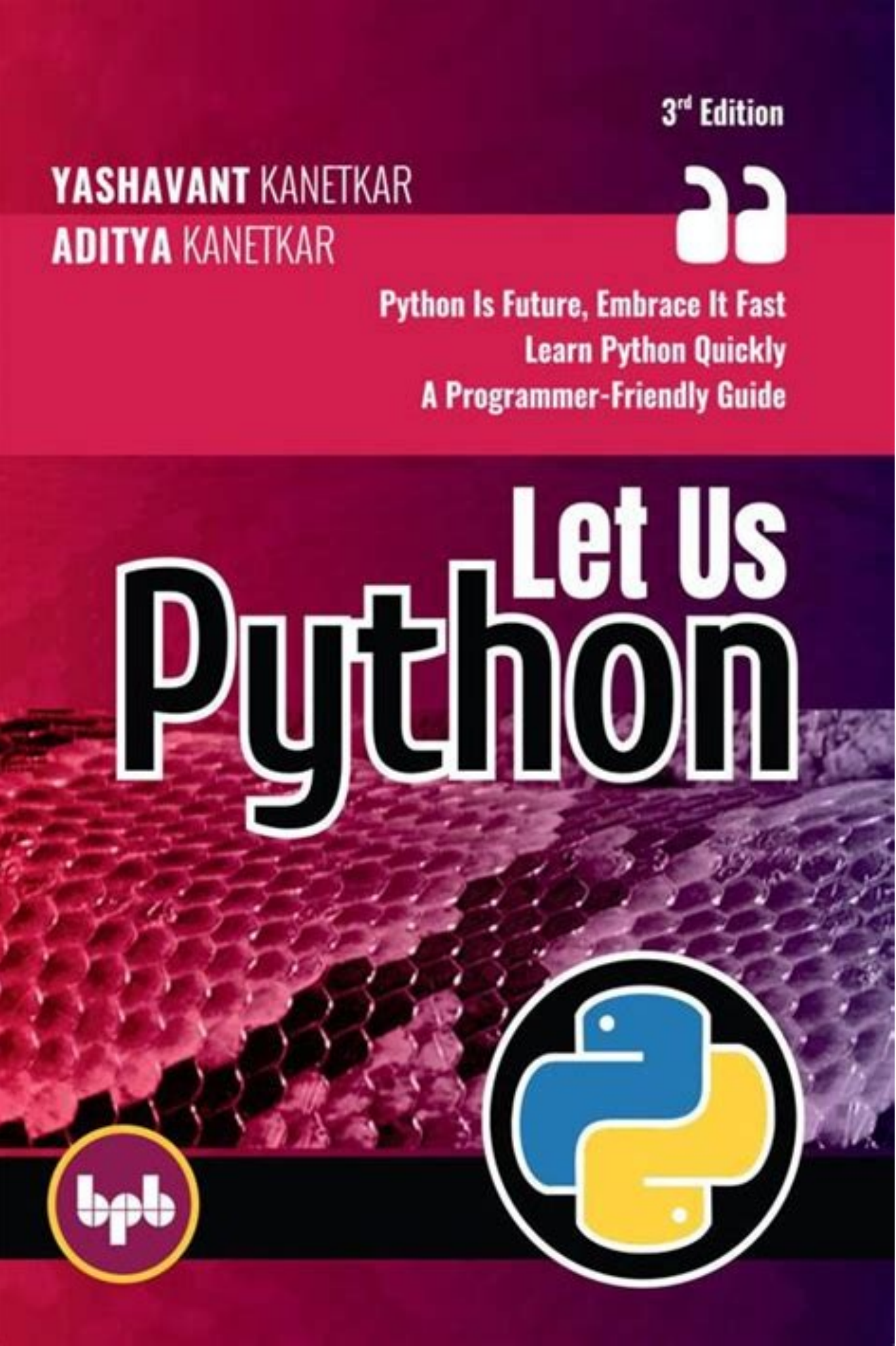
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Beginner's Python Cheat Sheet — Functions	
What are functions?	Functions are named blocks of code designed to do one specific job. Functions allow you to write code once that can then be run whenever you need to accomplish the same task. Functions can take in information they need, and return the information they generate. Using functions effectively makes your programs easier to write, read, test, and fix.
Defining a function	The first line of a function is its definition, marked by the keyword <code>def</code> . The name of the function is followed by a set of parentheses and a colon. Following is the function's body, which is indented after the function line. The body of a function is a set of statements. To call a function, give the name of the function followed by a set of parentheses.
Making a function	<pre>def greet_user(): """Greet a single greeting.""" print("Hello!") greet_user()</pre>
Passing information to a function	Information that is passed by a function is called an argument. Information that is received by a function is called a parameter. Arguments and parameters are listed in parentheses in the function's definition.
Passing a single argument	<pre>def greet_user(username): """Greet a single greeting.""" print("Hello, " + username + "!") greet_user('jesse') greet_user('eliore') greet_user('wendell')</pre>
Positional and keyword arguments	The two main styles of arguments are positional and keyword arguments. When you use positional arguments, Python matches the first argument to the function and so on. The first parameter in the function definition, and so forth. With keyword arguments, you identify each argument with an argument should be assigned to in the function call. When you use keyword arguments, the order of the arguments doesn't matter.
Using positional arguments	<pre>def describe_pet(animal, name): """Display information about a pet.""" print("I'd like a " + animal + ".") print("Its name is " + name + ".") describe_pet('hamster', 'harry') describe_pet('dog', 'willie')</pre>
Using keyword arguments	<pre>def describe_pet(animal, name): """Display information about a pet.""" print("I'd like a " + animal + ".") print("Its name is " + name + ".") describe_pet(animal='hamster', name='harry') describe_pet(name='willie', animal='dog')</pre>
Default values	You can provide a default value for a parameter. When a function call does not assign the default value, the value is used. Parameters with default values must be listed after parameters without default values in the function's definition. Otherwise, Python will not work correctly.
Using a default value	<pre>def describe_pet(name, animal='dog'): """Display information about a pet.""" print("I'd like a " + animal + ".") print("Its name is " + name + ".") describe_pet('harry', 'hamster') describe_pet('willie')</pre>
Using None to make an argument optional	<pre>def describe_pet(animal, name=None): """Display information about a pet.""" print("I'd like a " + animal + ".") if name: print("Its name is " + name + ".") describe_pet('hamster', 'harry') describe_pet('snake')</pre>
Return values	A function can return a value or a set of values. When a function returns a value, the calling line that provided a variable matches it with the return value. A function call, running when it reaches a return statement.
Returning a single value	<pre>def get_full_name(first, last): """Returns a neatly formatted full name.""" full_name = first + " " + last return full_name.title() real_name = get_full_name('jane', 'henderic') print(real_name)</pre>
Returning a dictionary	<pre>def build_person(first, last): """Returns a dictionary of information about a person. first: a string; last: a string; last: a string return person """ person = {'first': first, 'last': last} return person musician = build_person('jane', 'henderic') print(musician)</pre>
Returning a dictionary with optional values	<pre>def build_person(first, last, age=None): """Returns a dictionary of information about a person. first: a string; last: a string; age: a number return person """ person = {'first': first, 'last': last} if age: person['age'] = age return person musician = build_person('jane', 'henderic', 27) print(musician) musician = build_person('jane', 'jazzlin') print(musician)</pre>
Visualizing functions	For more examples of these examples, see pythoncrashcourse.com .
Python Crash Course Covers Python 3 and Python 2 nostalgorithms.com/pythoncrashcourse	

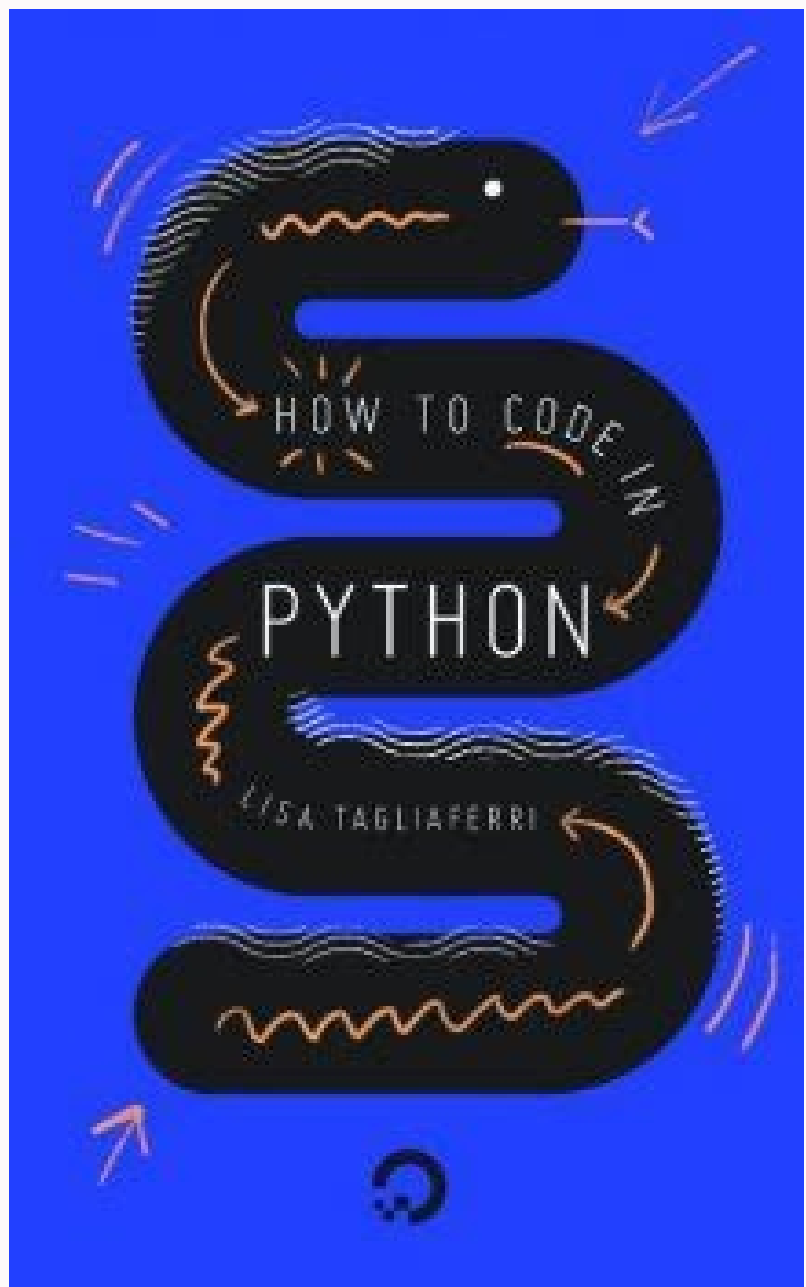
Passing a list to a function	You can pass a list as an argument to a function, and the function can work with the values in the list. Any change the function makes to the list will affect the original list. Also, you can prevent a function from modifying a list by passing a copy of the list as an argument.
Passing a list as an argument	<pre>def greet_users(names): """Greet a single greeting to everyone.""" for name in names: msg = "Hello, " + name + "!" print(msg) username = ['hannah', 'ty', 'hargree'] greet_users(username)</pre>
Allowing a function to modify a list	The simplest way to modify a list is to pass it to a function. The function can then modify the list, and the changes will be made. To print a set of modules.
Preparing a function from modifying a list	The following examples in the same as the previous one, except the original list is unchanged after calling <code>print_users()</code> .
Passing an arbitrary number of arguments	Collecting an arbitrary number of arguments The <code>*</code> operator allows a parameter to collect an arbitrary number of keyword arguments.
Modules	Modules allow you to organize your code into a separate file, called a module, and then import the functions you need into the file. Modules are used to organize your code. The <code>import</code> statement is used to import a module. The <code>from</code> statement is used to import a specific function from a module.



AN ILLUSTRATED GUIDE TO
EXPLORING MATH WITH CODE

PETER FARRELL

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NO PROBLEMS

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