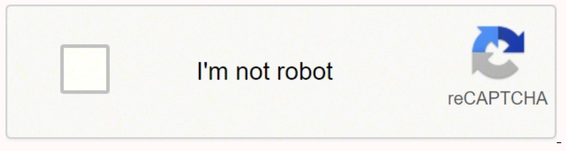

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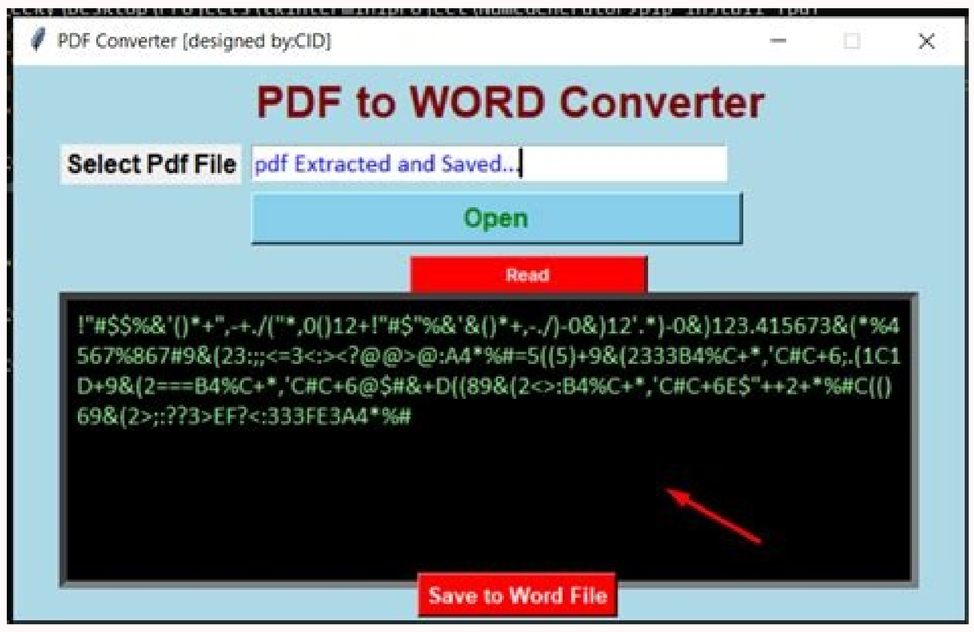
Python coding for beginners pdf



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 the 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 def. The name of the function is followed by a set of parentheses and a colon. A docstring, in triple quotes, describes what the function does. The body of a function is indented one level.

To call a function, give the name of the function followed by a set of parentheses.

Making a function

```
def greet_user():
    """Display a simple greeting."""
    print("Hello!")

greet_user()
```

Passing information to a function

Information that's passed to a function is called an argument. Information that's received by a function is called a parameter. Arguments are included in parentheses after the function's name, and parameters are listed in parentheses in the function's definition.

Passing a single argument

```
def greet_user(username):
    """Display a simple greeting."""
    print("Hello, " + username + "!")

greet_user('jesse')
greet_user('diana')
greet_user('brandon')
```

Positional and keyword arguments

The two main kinds of arguments are positional and keyword arguments. When you use positional arguments Python matches the first argument in the function call with the first parameter in the function definition, and so forth.

With keyword arguments, you specify which parameter each 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

```
def describe_pet(animal, name):
    """Display information about a pet."""
    print("\nI have a " + animal + ".")
    print("Its name is " + name + ".")

describe_pet('hamster', 'harry')
describe_pet('dog', 'willie')
```

Using keyword arguments

```
def describe_pet(animal, name):
    """Display information about a pet."""
    print("\nI have a " + animal + ".")
    print("Its name is " + name + ".")

describe_pet(animal='hamster', name='harry')
describe_pet(name='willie', animal='dog')
```

Default values

You can provide a default value for a parameter. When function calls omit this argument the default value will be used. Parameters with default values must be listed after parameters without default values in the function's definition so positional arguments can still work correctly.

Using a default value

```
def describe_pet(name, animal='dog'):
    """Display information about a pet."""
    print("\nI have a " + animal + ".")
    print("Its name is " + name + ".")

describe_pet('harry', 'hamster')
describe_pet('willie')
```

Using None to make an argument optional

```
def describe_pet(animal, name=None):
    """Display information about a pet."""
    print("\nI have a " + animal + ".")
    if name:
        print("Its name is " + name + ".")

describe_pet('hamster', 'harry')
describe_pet('snake')
```

Return values

A function can return a value or a set of values. When a function returns a value, the calling line must provide a variable in which to store the return value. A function stops running when it reaches a return statement.

Returning a single value

```
def get_full_name(first, last):
    """Return a neatly formatted full name."""
    full_name = first + ' ' + last
    return full_name.title()

musician = get_full_name('jimi', 'hendrix')
print(musician)
```

Returning a dictionary

```
def build_person(first, last):
    """Return a dictionary of information
    about a person.
    """
    person = {'first': first, 'last': last}
    return person

musician = build_person('jimi', 'hendrix')
print(musician)
```

Returning a dictionary with optional values

```
def build_person(first, last, age=None):
    """Return a dictionary of information
    about a person.
    """
    person = {'first': first, 'last': last}
    if age:
        person['age'] = age
    return person

musician = build_person('jimi', 'hendrix', 27)
print(musician)

musician = build_person('janis', 'joplin')
print(musician)
```

Visualizing functions

Try running some of these examples on pythontutor.com.

Python Crash Course
Covers Python 3 and Python 2
nostarchpress.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 changes the function makes to the list will affect the original list. 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

```
def greet_users(names):
    """Print a simple greeting to everyone."""
    for name in names:
        msg = "Hello, " + name + "!"
        print(msg)

usernames = ['hannah', 'ty', 'margot']
greet_users(usernames)
```

Allowing a function to modify a list

The following example sends a list of models to a function for printing. The original list is emptied, and the second list is filled.

```
def print_models(unprinted, printed):
    """3d print a set of models."""
    while unprinted:
        current_model = unprinted.pop()
        print("Printing " + current_model)
        printed.append(current_model)

# Store some unprinted designs,
#  and print each of them.
unprinted = ['phone case', 'pendant', 'ring']
printed = []
print_models(unprinted, printed)

print("\nUnprinted:", unprinted)
print("Printed:", printed)
```

Preventing a function from modifying a list

The following example is the same as the previous one, except the original list is unchanged after calling print_models().

```
def print_models(unprinted, printed):
```

Passing an arbitrary number of arguments

*Sometimes you won't know how many arguments a function will need to accept. Python allows you to collect an arbitrary number of arguments into one parameter using the * operator. A parameter that accepts an arbitrary number of arguments must come last in the function definition.*

*The * operator allows a parameter to collect an arbitrary number of keyword arguments.*

Collecting an arbitrary number of arguments

```
def make_pizza(size, *toppings):
    """Make a pizza."""
    print("\nMaking a " + size + " pizza.")
    print("Toppings:")
    for topping in toppings:
        print("- " + topping)

# Make three pizzas with different toppings.
make_pizza('small', 'pepperoni')
make_pizza('large', 'bacon bits', 'pineapple')
make_pizza('medium', 'mushrooms', 'peppers',
           'onions', 'extra cheese')
```

Collecting an arbitrary number of keyword arguments

```
def build_profile(first, last, **user_info):
    """Build a user's profile dictionary."""
    # Build a dict with the required keys.
    profile = {'first': first, 'last': last}

    # Add any other keys and values.
    for key, value in user_info.items():
        profile[key] = value

    return profile

# Create two users with different kinds
#  of information.
user_0 = build_profile('albert', 'einstein',
         location='princeton')
user_1 = build_profile('marie', 'curie',
```

Modules

You can store your functions in a separate file called a module, and then import the functions you need into the file containing your main program. This allows for cleaner program files. (Make sure your module is stored in the same directory as your main program.)

Storing a function in a module

File: pizza.py

```
def make_pizza(size, *toppings):
    """Make a pizza."""
    print("\nMaking a " + size + " pizza.")
    print("Toppings:")
    for topping in toppings:
        print("- " + topping)
```

Importing an entire module

File: making_pizzas.py
Every function in the module is available in the program file.

```
import pizza

pizza.make_pizza('medium', 'pepperoni')
pizza.make_pizza('small', 'bacon', 'pineapple')
```

Importing a specific function

Only the imported functions are available in the program file.

```
from pizza import make_pizza

make_pizza('medium', 'pepperoni')
make_pizza('small', 'bacon', 'pineapple')
```

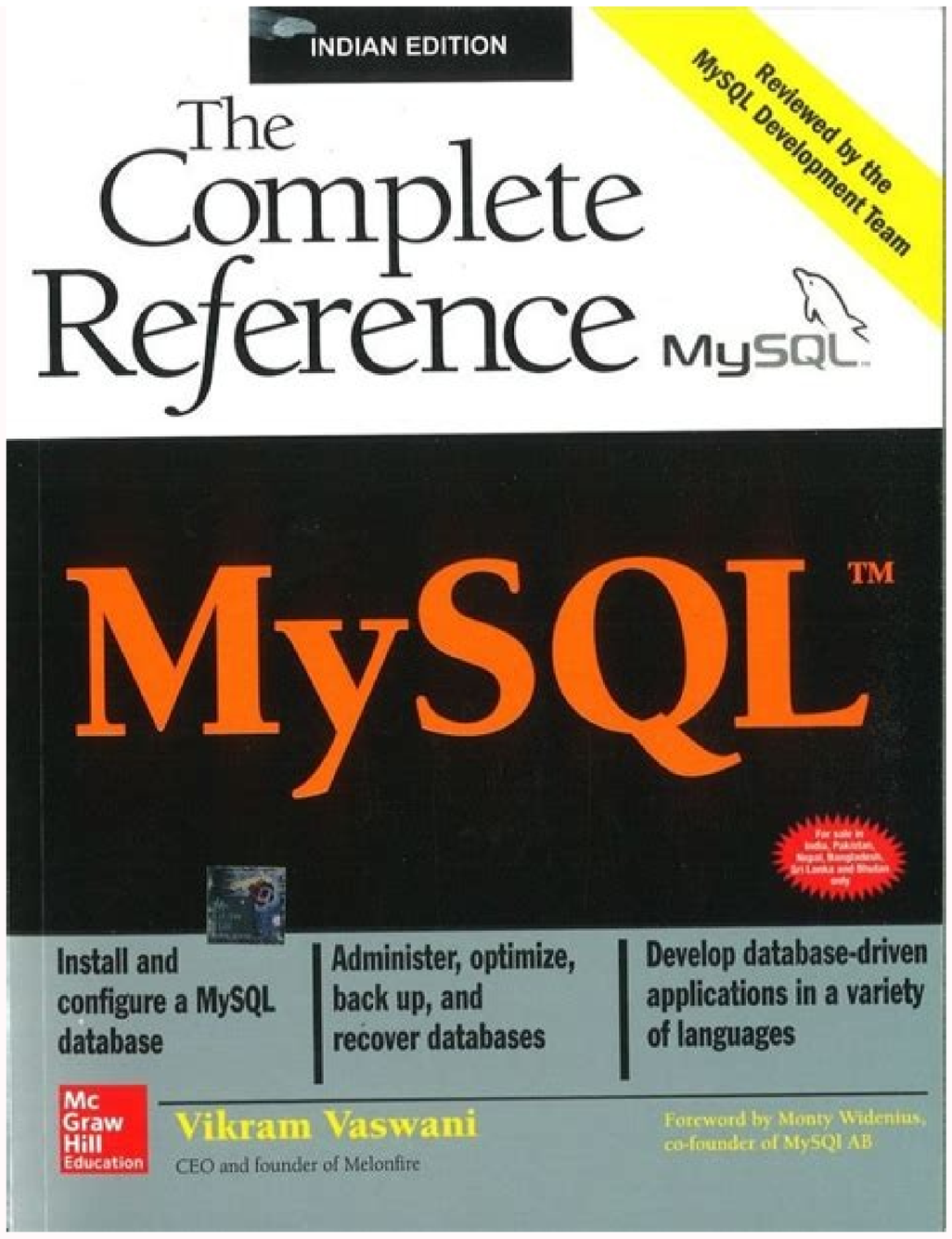
Giving a module an alias

```
import pizza as p

p.make_pizza('medium', 'pepperoni')
p.make_pizza('small', 'bacon', 'pineapple')
```

Giving a function an alias

```
from pizza import make_pizza as mp
```



Help The Python Find The Missing Words!

Read the sentences below. Visit our Easy Science for Kids page All About Pythons to find the missing words.
Write them in the empty spaces and find these hidden words in the puzzle!
[Words might be hidden horizontally, vertically and perhaps even back to front...!]

1. Pythons are _____ snakes, because they kill their prey by squeezing it to death.
2. _____ are sometimes kept as _____, but in the wild, they live in Asia and Africa.
3. They like moist, _____ places. Small pythons climb in _____.
4. All pythons are expert _____. Pythons are often _____ for their skins and meat.
5. People have let their pet pythons loose in the Florida _____.
6. Pythons come in many colors, including _____ and _____.
7. Pythons have flexible jaws that can open wide to _____ whole animals.
8. Pythons only _____ five or six times each year.

J	B	T	X	V	Z	C	S	C	K	J	N	B	S	S	D
C	O	N	S	T	R	I	C	T	I	N	G	U	W	B	E
K	T	T	Z	N	B	B	S	Q	Z	O	L	I	A	U	T
U	R	Y	F	A	S	V	T	O	H	P	M	Y	L	A	N
P	C	N	D	E	T	X	R	D	N	M	M	O	L	C	U
S	E	D	A	L	G	R	E	V	E	G	O	S	O	W	H
K	Z	T	B	C	N	E	E	R	G	B	R	O	W	N	I
R	X	H	S	U	L	I	S	N	O	H	T	Y	P	V	X

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An algorithm that automatically summarizes news articles. The key is to pick something and do it. I spent as little time as possible learning the basics, then immediately dove into creating things that interested me. It ranks second, behind only SQL, in data analyst job postings. But, before you do, it’s important to spend some time learning how to solve problems. Remember to start very small. Unfortunately, there aren’t really any secret shortcuts! The best thing you can do is find a platform that teaches Python (or build a curriculum for yourself) specifically for the skill you want to learn (for example, Python for game dev, or Python for data science). Very useful when trying to resolve errors. Here’s an example. Unfortunately a lot of “learn Python” resources online still teach Python 2, but you should definitely learn Python 3. Also, a quick note: learn Python 3, not Python 2. EarnCertificateof completion with Join-people who have taken this courseTime to Complete25 HoursPrerequisitesNoneI know from first-hand experience that you can go in knowing zero, nothing, and just get a grasp on everything as you go and start building right away.— Madelyn, PinterestLearn the basics of the world’s fastest growing and most popular programming language used by software engineers, analysts, data scientists, and machine learning engineers alike. You’ll need to be constantly learning and working on projects. For students who are truly serious about a topic, Udacity also offers paid “nanodegrees.”CourseraLooking for online classes to help teach you to code in a specific language, or just provide you with an overview of computer programming in general? All that time spent on syntax rather than what you want to be doing causes your motivation to ebb away, and to you just calling the whole thing off. Should you learn Python 2 or 3? The internet is full of free Python learning resources! The downside to learning for free is that to learn what you want, you’ll probably need to patch together a bunch of different free resources. Python 2 is no longer supported, so bugs and security holes will not be fixed! Step 3: Make Structured Projects Once you’ve learned the basic syntax, it’s possible to start making projects on your own. This is because it’s going to be a long and sometimes painful journey. The site also offers paid paths towards verified learning programs.Udacity provides online classes, mostly with a technological emphasis. The fun part is that it’s easy to browse through whatever materials you find useful.UdemyJust search Udemy for “coding” and you’ll discover a long list of video-orientated online courses that should appeal to many beginner coders. Step 5: Keep working on harder projects Keep increasing the difficulty and scope of your projects. Many jobs in all three areas will require both Python and SQL skills, but SQL is a query language. Learn the fundamentals — and more — with the resources available to beginner coders at coursera.org. Platforms that cost money may offer better teaching methods (like the interactive, in-browser coding Dataquest offers), and they also save you the time of having to find and build your own curriculum. A smarter alarm clock. We’ve written about Python 2 or Python 3 as well, but the short answer is this: learn Python 3. Think of tools that would make your every day life easier, and build them. Unless you apply your knowledge, it will be hard to retain it. But for some context, Dataquest learners we surveyed in 2020 reported reaching their learning goals in less than a year — many in less than six months — with less than ten hours of study per week. How long does it take to learn Python? Hardware / Sensors / Robots Scripts to Automate Your Work Once you’ve done a few structured projects in your own area, you should be able to move into working on your own projects. But make no mistake, whatever you want to do with Python, it’ll take some time to learn! Do you need a Python certification to find work? CS109 — this is a Harvard class that teaches Python for data science. Have fun.edXedX is an online education service that provides free MOOCs (massive online open courses) on many college-level topics, including computer science. Let’s look at some good resources for structured projects in each area: Data science / Machine learning Dataquest — Teaches you Python and data science interactively. Websites Games An example of a game you can make with Pygame. You should ideally only spend a couple of weeks on this phase, and definitely no more than a month. Work Automation Project Ideas A script to automate data entry. The problem is that you need to understand the building blocks of the Python language to build anything interesting. At Dataquest, we have guided projects that give you small data science related tasks that you can build on. Python documentation — a good place to find reference material on Python. Python is a great language for programming beginners to learn, and you don’t need any prior experience with code to pick it up. For example, I worked on tools to trade stocks automatically very soon after I learned programming. If you don’t know how to write the code to create a view, it isn’t really possible to make a dynamic website. If you get too hung up on picking the perfect project, there’s a risk that you’ll never make one. Whether your goal is to learn to code with Python, Ruby, Java, HTML, C++ or other programming languages, these resources will hopefully set you on your way. Go to Python meetups in your area, and find people who are working on interesting projects. I hope this guide has been useful on your journey. In this blog post, I’ll walk you through step by step how to replicate this process, regardless of why you want to learn Python. Can it work with more data, or can it handle more traffic? MORE FROM QUESTIONSANSWERED.NET Python is a general-purpose, versatile and popular programming language. Employers care about the skills you have — being able to show them a GitHub full of great Python code is much more important than being able to show them a certificate. You’ll find coding resources on a variety of programming languages and goals, both introductory and applicable, including web and mobile design, algorithms and data topics. Python is a popular and flexible language that’s used professionally in a wide variety of contexts. You can choose a new project that Here are some ideas for when that time comes: Try teaching a novice how to build a project you made. Projects will push your capabilities, help you learn new things, and help you build a portfolio to show to potential employers. Find projects other people have made, and see if you can extend or adapt them. Github is a good place to find these. Mobile App Project Ideas An app to track how far you walk every day. Learning Python can certainly be challenging, and you’re likely to have frustrating moments. What worked was blending learning the basics with building interesting things. Many learning resources offer structured projects, and these projects let you build interesting things in the areas you care about while still preventing you from getting stuck. In fact, I think this is the best way to learn Python. How can I learn Python faster? Mobile Apps Kivy guide — Kivy is a tool that lets you make mobile apps with Python. One of the things that I found most frustrating when I was learning Python was how generic all the learning resources were. Is Python a good language to learn in 2021? We teach Python for data science and machine learning, for example, but if you wanted to apply your Python skills in another area, Python is used in finance, web development, software engineering, game development, etc. It’s also useful to find other people to work with for more motivation. An app that sends you weather notifications. At Dataquest, we’ve had many learners start with no coding experience and go on to get jobs as data analysts, data scientists, and data engineers. However, if you take the step-by-step approach I’ve outlined here, you should find that it’s easy to power through frustrating moments, because you’ll be working on projects that genuinely interest you. I started some tutorials but soon stopped. You should work on things that interest you. There are only a few people who can legitimately claim to completely understand the language, and they created it. “It’s easy!”, they’ll promise. There are lots of free Python learning resources out there — just here at Dataquest, we have dozens of free Python tutorials and our interactive data science learning platform, which teaches Python, is free to sign up for and includes many free lessons. The courses aren’t free, but even if you have no prior experience with programming, you’ll likely find a coding class at Udemy that fits your specific skill level. Here’s data from open job postings on Indeed.com in February of 2021: As you can see, Python is a critical skill, and it’s listed above every other technical skill in data scientist and data engineering job postings. Python is a really fun and rewarding language to learn, and I think anyone can get to a high level of proficiency in it if they find the right motivation. It doesn’t have to feel like scaling a cliff! Python is an important programming language to know — it’s widely-used in fields like data science, web development, software engineering, game development, automation. You analyze a series of interesting datasets ranging from CIA documents to NBA player stats. Can you learn Python from scratch (with no coding experience)? It’s better to start a small project that you finish that a huge project that never gets done. That can be difficult and painful to figure out. Projects are a great way to learn, because they let you apply your knowledge. Once you have a solid handle on debugging issues, you can start working on your own projects. (Incidentally, we’re sometimes asked why Dataquest doesn’t teach Julia for data science. In addition to overview materials regarding computer programming, there are also more advanced topics on coding in C and C++. Python Game Project Ideas A location-based mobile game, where you capture territory. An algorithm that predicts the weather where you live. It’s great as a first language because it is concise and easy to read, and it is also a good language to have in any programmer’s stack as it can be used for everything from web development to software development and scientific applications. Staying motivated to keep learning is one of the biggest challenges. Most tutorials assume that you need to learn all of Python syntax before you can start doing anything interesting. Having some data analysis skills with Python can be useful for a wide variety of jobs — if you work with spreadsheets, chances are there are things you could be doing faster and better with a little Python. A game where you program to solve puzzles. We’ve written about Python certificates in depth, but the short answer is: probably not. If you really can’t think of any good project ideas, here are some in each area we’ve discussed: Data Science / Machine Learning Project Ideas A map that visualizes election polling by state. Common Python Questions: Is it hard to learn Python? They have a guide on how to get started. A notetaking platform. Figure out one or two areas that interest you, and you’re willing to stick with. Here are some resources you should be familiar with: StackOverflow — a community question and answer site where people discuss programming issues. You have to learn the very basics of Python syntax before you dive deeper into your chosen area. Can you make your tool useful for more people? The quicker you can get to working on projects, the faster you will learn. My first project on my own was adapting my automated essay scoring algorithm from R to Python. This should ensure that you’re not wasting any time learning things you won’t actually need for your day-to-day Python work. You’ll find a suite of coding languages being taught, including Python, JavaScript, HTML, CSS and many others. I looked at Python code, but it was foreign and confusing: from django.http import HttpResponse def index(request): return HttpResponse("Hello, world. Going forward At the end of the day, Python is evolving all the time. If you have any other resources to suggest, please let us know! Find out more about how you can learn Python and add this skill to your portfolio by visiting Dataquest. A realtime location-based chat. You can find Python-specific questions here. Earn a certificate of completion 25 hours to complete in total Beginner2 lessons, 1 project, 1 quiz 2 lessons, 1 project, 1 quiz 2 lessons, 1 project, 1 quiz 2 lessons, 1 project, 1 quiz 2 lessons, 1 project, 1 quiz 2 lessons, 1 project, 1 quiz 1 lesson, 1 project, 1 quiz Published: February 24, 2021What’s the best way to learn Python? I wanted to learn how to make websites using Python, but it seemed like every learning resource wanted me to spend two long, boring, months on Python syntax before I could even think about doing what interested me. You need to be able to climb the “cliff of boring” to make it to the “land of interesting stuff you work on” (better name pending). In terms of programming skills, Python is most in-demand. They have some of their projects and other materials online. Before you dive into working on your own projects, you should feel comfortable debugging errors and problems with your programs. Understanding how everything fits together when you don’t know much Python can be very hard. Step 4: Work on Python Projects on Your Own Once you’ve completed some structured projects, it’s time to work on projects on your own to continue to learn Python better. edX partners with universities and companies like Microsoft, Harvard, Dartmouth and others to provide the materials. You want to spend the minimum amount of time on this, as it isn’t very motivating. After facing the “cliff of boring” a few times and walking away, I found a process that worked better for me. Why are some things in parentheses? Different companies and industries have different standards, but in data science, certificates don’t carry much weight. Without enough motivation, you probably won’t make it through. I know that from experience. Here are some tips for finding interesting projects: Extend the projects you were working on previously, and add more functionality. It has some great documentation and tutorials. But even a few seemingly simple lines of code can be incredibly confusing. I like to think of this as the “cliff of boring”. Experienced programmers will often throw snippets like the above at you. With classes available from multiple universities, there’s likely to be something here that fits your needs.MIT OpenCourseWareMIT makes materials and videos from some of its university courses available to the public for free at its ocw.mit.edu website. You’ll be gearing your learning towards them, and eventually will be building projects in them. Pick an area you’re interested in, such as: Data science / Machine learning Mobile apps Websites Games Data processing and analysis Hardware / Sensors / Robots Scripts to automate your work Yes, you can make robots using Python! From the Raspberry Pi Cookbook. Google — the most commonly used tool of every experienced programmer. If you get to this point, you’re on the right track. By the end, you’ll be comfortable programming in Python and taking your skills off the Codecademy platform and onto your own computer. However, very freeform projects at this point will be painful — you’ll get stuck a lot, and need to refer to documentation. A site that allows users to review video games. A self-driving robot that detects obstacles. It didn’t end up looking pretty, but it gave me a sense of accomplishment, and started me on the road to building my skills. This is Barbie Seahorse Adventures 1.0, by Phil Hassey. Tags About the author Vik Paruchuri Vik is the CEO and Founder of Dataquest. A few years ago, this was still a topic of debate, and some extreme predictions even claimed that Python 3 would “kill Python.” That hasn’t happened, and today, Python 3 is everywhere. Here are some good resources to help you learn the basics: I can’t emphasize enough that you should only spend the minimum amount of time possible on basic syntax. Learning Python syntax doesn’t have to feel like this. How long it takes to get to job-ready depends on your goals, the job you’re looking for, and how much time you can dedicate to study. A tool that predicts the stock market. If you do this right, you’ll find yourself looking back on your code from 6 months ago and thinking about how terrible it is. Website Project Ideas A site that helps you plan your weekly meals. Because of this, it’s usually better to make more structured projects until you feel comfortable enough to make projects completely on your own. You can always refer back to the syntax when you get stuck later. For instance, why are some lines indented? Python for Data Analysis — written by the author of a major Python data analysis library, it’s a good introduction to analyzing data in Python. Hardware / Sensors / Robots Project Ideas Sensors that monitor your home temperature and let you monitor your house remotely. You don’t have to figure out an exact project, just a general area you’re interested in as you prepare to learn Python. There are plenty of courses available that teach both beginner and more advanced programming topics. You’ll spend extra time researching what you need to learn next, and then finding free resources that teach it. Can you scale up your tool? Figuring out what motivates you will help you figure out an end goal, and a path that gets you there without boredom. Like edX, Coursera combines video learning with other materials. What’s django.http? For example, I slept through high school and college programming classes when I had to memorize syntax and I wasn’t motivated. Find open source packages to contribute to. You're at the polls index.") The above code is from the tutorial for Django, a popular Python website development framework. If you’re completely comfortable with what you’re building, it means it’s time to try something harder. The charts above probably answer that question — our curriculum is very focused on real-world skills, and we choose what courses to make based on an analysis of data job postings so that we can be sure the skills you learn at Dataquest are helpful in the real world.) Moreover, Python data skills can be really useful even if you have no aspiration to become a full-time data scientist or programming. But you don’t have to spend months on that cliff. Learning a programming language is a bit like learning a spoken language — you’re never really done, because programming languages evolve and there’s always more to learn! However, you can get to a point of being able to write simple-but-functional Python code pretty quickly. On the other hand, when I needed to use Python to build a website to automatically score essays, I stayed up nights to finish it. See if any local nonprofits are looking for volunteer developers. It’s often useful to start with things that are very simple so you can gain confidence. You eventually build complex algorithms, including neural networks and decision trees. Browse through other people’s blog posts to find interesting project ideas. The above code snippet creates a view, which is one of the key building blocks of a website using the popular MVC architecture. This mismatch made learning Python quite intimidating for me. If you’re working with data, Python is the most in-demand programming language you could learn. A tool to scrape data from the web. Step 2: Learn the Basic Syntax Unfortunately, this step can’t be skipped. How would you commercialize what you’ve made? But what’s the best way to learn Python? From RealClearPolitics. Step 1: Figure Out What Motivates You to Learn Python Before you start diving into learning Python online, it’s worth asking yourself why you want to learn it. There are also topics taught on specific mobile operating systems. Learning to “code” — that is, write programming instructions for computers or mobile devices — can be fun and challenging. You could make a more interactive version of this map. I put it off for months. Can you make your program run faster? You’ll still be consulting resources and learning concepts, but you’ll be working on what you want to work on. Can you learn Python for free? Take-Away Skills: This course is a great introduction to both fundamental programming concepts and the Python programming language. Scikit-learn documentation — Scikit-learn is the main Python machine learning library. Yes. Check out our list of Python projects for beginners. This is what leads to months spent just on syntax, when what you really want to be doing is analyzing data, or building a website, or creating an autonomous drone. Working only on things that interest you means that you’ll never get burned out or bored.

5/12/2016 · With some Python experience, you might be interested in knowing where to go next. Before delving into other languages and/or frameworks, look for techniques to improve your current Python code, for example by refactoring it by using list comprehensions where possible. Look for new geospatial modules that make your coding work easier. Welcome to Code Conquest – a free online guide to coding for beginners. If you’re someone who wants to learn about coding, but you haven’t got a clue where to start, you’ve come to the right place. This site has all the step-by-step information you need to get started. Plus, you'll be pleased to learn that you don't need to spend 7/5/2021 · If not, this beginner-friendly Python project will help you get a good hands-on over the GUI Python library. You can add a textbox that will show the present numbers or the results. You will also have to create buttons for numbers as well as mathematical operations like add, subtract, multiply, exponent, divide, etc. Once you’ve created a new Python file — note that Python files will have the extension .py — you should have a blank screen in front of you. You’re ready to start to learn to code. In Chapter 1, you’ll start writing your first program right away, and I’ll guide you on how to run your program and view the output once you’re ready to run your first lines of code.

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