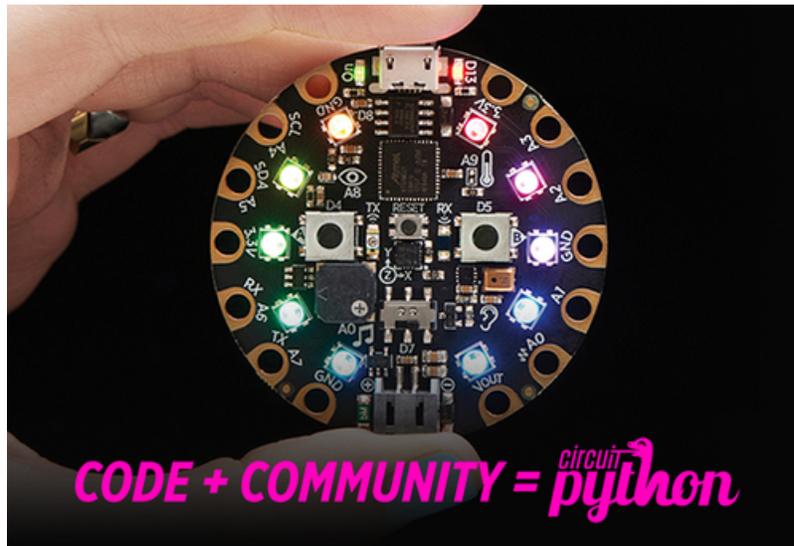


Welcome to the Adafruit CircuitPython community!

Created by Kattni Rembor

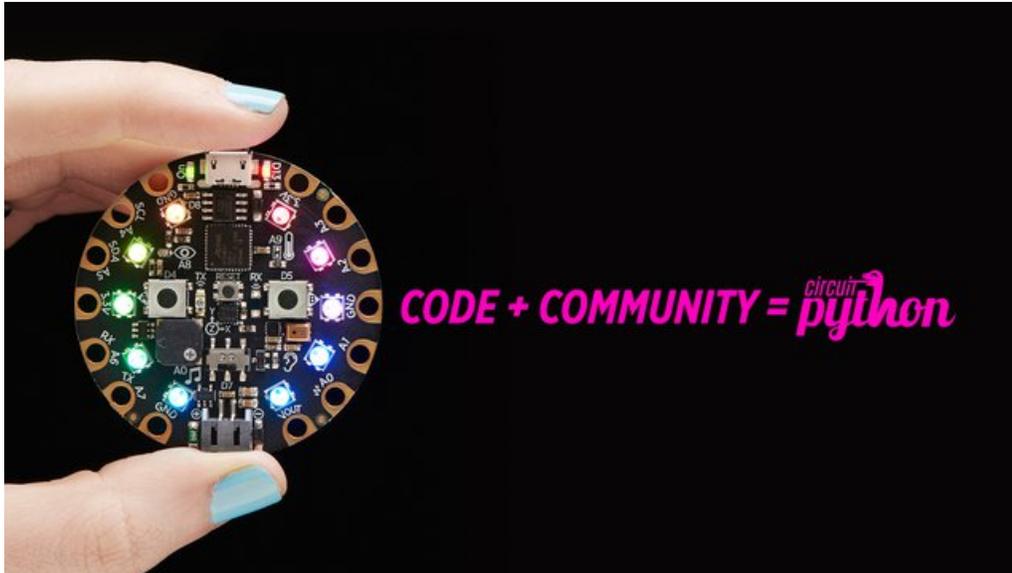


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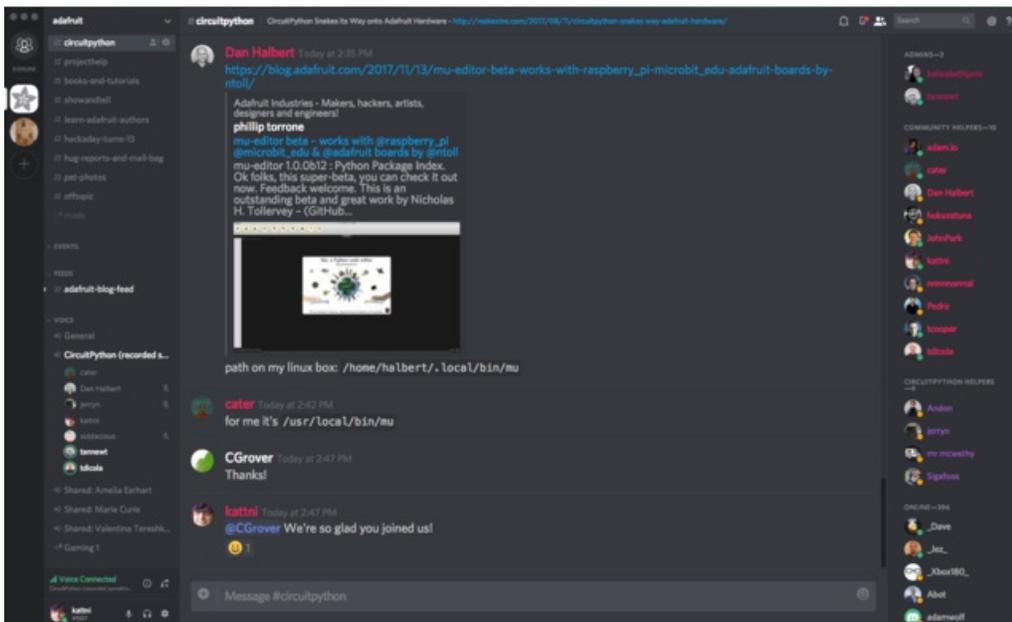
Welcome to the Community!



CircuitPython is a programming language that's super simple to get started with and great for learning. It runs on microcontrollers and works out of the box. You can plug it in and get started with any text editor. The best part? CircuitPython comes with an amazing, supportive community.

Everyone is welcome! CircuitPython is Open Source. This means it's available for anyone to use, edit, copy and improve upon. This also means CircuitPython becomes better because of you being a part of it. It doesn't matter whether this is your first microcontroller board or you're a computer engineer, you have something important to offer the Adafruit CircuitPython community. We're going to highlight some of the many ways you can be a part of it!

Adafruit Discord



The Adafruit Discord server is the best place to start. Discord is where the community comes together to volunteer and provide live support of all kinds. From general discussion to detailed problem solving, and everything in between,

Discord is a digital maker space with makers from around the world.

There are many different channels so you can choose the one best suited to your needs. Each channel is shown on Discord as "#channelname". There's the #projecthelp channel for assistance with your current project or help coming up with ideas for your next one. There's the #showandtell channel for showing off your newest creation. Don't be afraid to ask a question in any channel! If you're unsure, #general is a great place to start. If another channel is more likely to provide you with a better answer, someone will guide you.

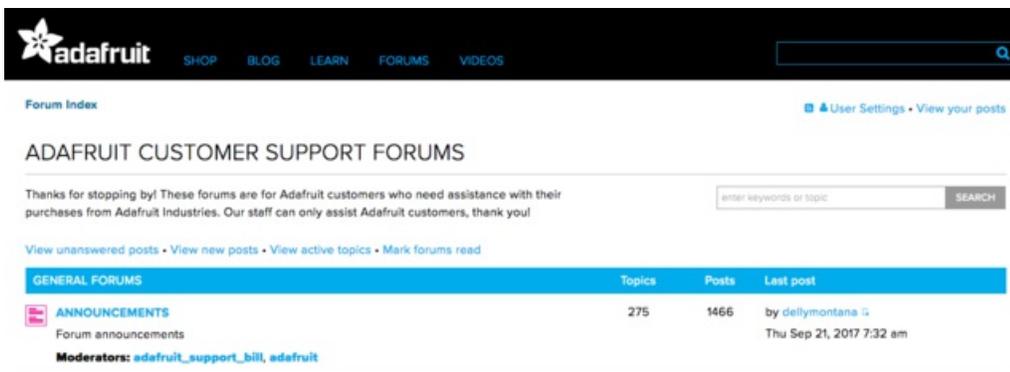
The CircuitPython channel is where to go with your CircuitPython questions. #circuitpython is there for new users and developers alike so feel free to ask a question or post a comment! Everyone of any experience level is welcome to join in on the conversation. We'd love to hear what you have to say!

The easiest way to contribute to the community is to assist others on Discord. Supporting others doesn't always mean answering questions. Join in celebrating successes! Celebrate your mistakes! Sometimes just hearing that someone else has gone through a similar struggle can be enough to keep a maker moving forward.

The Adafruit Discord is the 24x7x365 hackerspace that you can bring your granddaughter to.

Visit <https://adafru.it/discord> () to sign up for Discord. We're looking forward to meeting you!

Adafruit Forums



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ADAFRUIT CUSTOMER SUPPORT FORUMS

Thanks for stopping by! These forums are for Adafruit customers who need assistance with their purchases from Adafruit Industries. Our staff can only assist Adafruit customers, thank you!

View unanswered posts • View new posts • View active topics • Mark forums read

GENERAL FORUMS	Topics	Posts	Last post
ANNOUNCEMENTS Forum announcements Moderators: adafruit_support_bill , adafruit	275	1466	by delymontana Thu Sep 21, 2017 7:32 am

The [Adafruit Forums \(https://adafru.it/jlf\)](https://adafru.it/jlf) are the perfect place for support. Adafruit has wonderful paid support folks to answer any questions you may have. Whether your hardware is giving you issues or your code doesn't seem to be working, the forums are always there for you to ask. You need an Adafruit account to post to the forums. You can use the same account you use to order from Adafruit.

While Discord may provide you with quicker responses than the forums, the forums are a more reliable source of information. If you want to be certain you're getting an Adafruit-supported answer, the forums are the best place to be.

There are forum categories that cover all kinds of topics, including everything Adafruit. The [Adafruit CircuitPython and MicroPython \(https://adafru.it/xXA\)](https://adafru.it/xXA) category under "Supported Products & Projects" is the best place to post your CircuitPython questions.

Adafruit CircuitPython and MicroPython

Moderators: [adafruit_support_bill](#), [adafruit](#)

Forum rules

Adafruit MicroPython is currently EXPERIMENTAL and BETA - Please visit <https://learn.adafruit.com/category/micropython> and <http://forum.micropython.org/> in addition to our section here!

POST A TOPIC SEARCH Mark topics read • 179 topics • Page 1 of 4 • 1234

Please be positive and constructive with your questions and comments.

ANNOUNCEMENTS	Replies	Views	Last post
CIRCUITPYTHON 2.1.0 RELEASED! by danhalbert • Wed Oct 18, 2017 12:47 am	1	111	by danhalbert • Fri Oct 20, 2017 2:43 am

Be sure to include the steps you took to get to where you are. If it involves wiring, post a picture! If your code is giving you trouble, include your code in your post! These are great ways to make sure that there's enough information to help you with your issue.

You might think you're just getting started, but you definitely know something that someone else doesn't. The great thing about the forums is that you can help others too! Everyone is welcome and encouraged to provide constructive feedback to any of the posted questions. This is an excellent way to contribute to the community and share your knowledge!

Adafruit Github

Whether you're just beginning or are life-long programmer who would like to contribute, there are ways for everyone to be a part of building CircuitPython. GitHub is the best source of ways to contribute to [CircuitPython \(https://adafru.it/tB7\)](https://adafru.it/tB7) itself. If you need an account, visit <https://github.com/> (<https://adafru.it/d6C>) and sign up.

If you're new to GitHub or programming in general, there are great opportunities for you. Head over to [adafruit/circuitpython \(https://adafru.it/tB7\)](https://adafruit/circuitpython) on GitHub, click on "[Issues \(https://adafru.it/Bee\)](https://adafru.it/Bee)", and you'll find a list that includes issues labeled "[good first issue \(https://adafru.it/Bef\)](https://adafru.it/Bef)". These are things we've identified as something that someone with any level of experience can help with. These issues include options like updating documentation, providing feedback, and fixing simple bugs.

Already experienced and looking for a challenge? Checkout the rest of the issues list and you'll find plenty of ways to

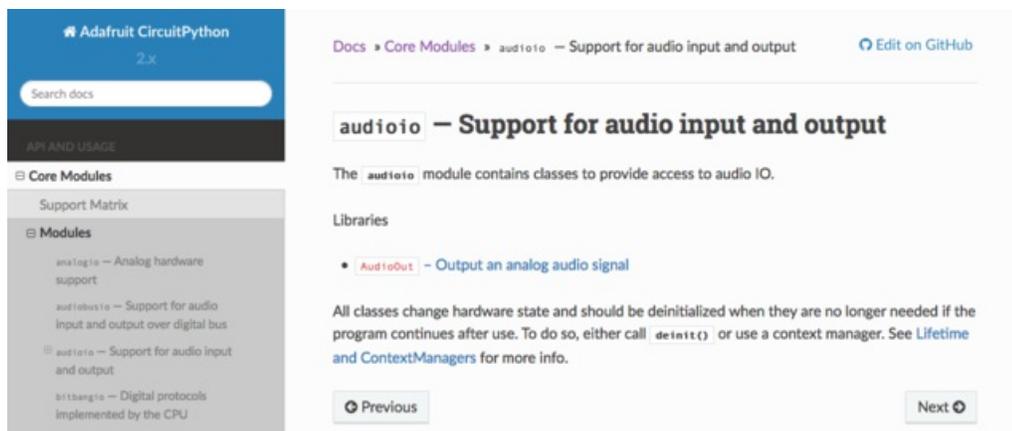
contribute. You'll find everything from new driver requests to core module updates. There's plenty of opportunities for everyone at any level!

When working with CircuitPython, you may find problems. If you find a bug, that's great! We love bugs! Posting a detailed issue to GitHub is an invaluable way to contribute to improving CircuitPython. Be sure to include the steps to replicate the issue as well as any other information you think is relevant. The more detail, the better!

Testing new software is easy and incredibly helpful. Simply load the newest version of CircuitPython or a library onto your CircuitPython hardware, and use it. Let us know about any problems you find by posting a new issue to GitHub. Software testing on both current and beta releases is a very important part of contributing CircuitPython. We can't possibly find all the problems ourselves! We need your help to make CircuitPython even better.

On GitHub, you can submit feature requests, provide feedback, report problems and much more. If you have questions, remember that Discord and the Forums are both there for help!

ReadTheDocs



The screenshot shows the ReadTheDocs interface for the `audioio` module. On the left is a navigation sidebar for Adafuit CircuitPython 2.x, with a search bar and a list of modules including `analogio`, `audiobusio`, `audioio`, and `bitbangio`. The main content area displays the title `audioio` — Support for audio input and output, with an `Edit on GitHub` link. Below the title, it states: "The `audioio` module contains classes to provide access to audio IO." Under the "Libraries" section, there is a link for `AudioOut` — Output an analog audio signal. A note at the bottom states: "All classes change hardware state and should be deinitialized when they are no longer needed if the program continues after use. To do so, either call `deinit()` or use a context manager. See [Lifetime and ContextManagers](#) for more info." Navigation buttons for "Previous" and "Next" are visible at the bottom.

[ReadTheDocs \(https://adafru.it/Beg\)](https://adafru.it/Beg) is an excellent resource for a more in depth look at CircuitPython. This is where you'll find things like API documentation and details about core modules. There is also a Design Guide that includes contribution guidelines for CircuitPython.

RTD gives you access to a low level look at CircuitPython. There are details about each of the [core modules \(https://adafru.it/Beh\)](https://adafru.it/Beh). Each module lists the available libraries. Each module library page lists the available parameters and an explanation for each. In many cases, you'll find quick code examples to help you understand how the modules and parameters work, however it won't have detailed explanations like the Learn Guides. If you want help understanding what's going on behind the scenes in any CircuitPython code you're writing, ReadTheDocs is there to help!



The screenshot shows a code example titled "Here is blinky:". The code is as follows:

```
import digitalio
from board import *
import time

led = digitalio.DigitalInOut(D13)
led.direction = digitalio.Direction.OUTPUT
while True:
    led.value = True
    time.sleep(0.1)
    led.value = False
    time.sleep(0.1)
```

