

CircuitPython Weekly Meeting for June 2, 2025

Welcome to the CircuitPython Weekly meeting notes! Feel free to add your Hug Reports and Status Updates before the meeting, alphabetically by your username. During the meeting, we go through them in order. If you can't make the meeting and would still like to participate, add your notes with a "(missing meeting)" after your username and we'll read them off for you.

Add any longer-form discussion topics or general questions you have to the "In the weeds" section.

We now convert this document to Markdown on export, instead of including explicit raw Markdown formatting. When you type, just format your contributions with regular Google Docs formatting. If you type using Markdown formatting characters, your input will be converted on the fly to formatted text. You can also right-click and "Paste as Markdown" any text that is using raw Markdown.

Thanks! We hope to see you in the meeting!

Liz is hosting.

Video is available on YouTube.

Join here for the chat all week: <http://adafru.it/discord>.

The CircuitPython Weekly Meeting normally is held at 2pm US ET/11am PT on Mondays. Check the #circuitpython channel on Discord for notices of change in time and links to past meetings. Meeting times are also available in [iCal format](#) for use with standard calendar applications and can also be viewed [in your browser](#).

If you want to be able to participate in the meeting by speaking, you will need to be added to the @circuitpythonistas role on Discord. Please ask any of the moderators or admins to add you if you'd like to join.

CircuitPython development is sponsored by Adafruit. Please support them by purchasing hardware from <https://adafruit.com>.

Reminders: Podcast available on most services. Let us know if we're missing some. The canonical URL for the podcast version is https://adafruit-podcasts.s3.amazonaws.com/circuitpython_weekly_meeting/audio-podcast.xml which you may be able to enter directly into compatible podcast apps.

01:41 Community News

CircuitPython 9.2.8 Released

CircuitPython 9.2.8, the latest bugfix revision of CircuitPython and is the new stable release - [Adafruit Blog](#) and [Release Notes](#).

Highlights of this release

- Fix deque bug.
- Fix I2S audio file read causing memory corruption.
- Support “Spectra6” six-color e-ink displays.
- Fix audiodelays.Delay when freq_shift=True.
- Board fixes.

02:11 The CircuitPython Show

In the last episode of this season of The CircuitPython Show, Paul welcomed Justin Myers. Justin shares how he started with computers and electronics and how he developed connectionmanager to make networking easier in CircuitPython - [The CircuitPython Show](#).

02:25 Project of the Week: PyBadge Face Invaders

PyBadge Face Invaders is an asteroids-like arcade game that runs on the Adafruit PyBadge and features personalized faces to dodge and destroy, programmed in CircuitPython - [hackster.io](#) and [GitHub](#).

02:41 Newsletter Details

The Python on Microcontrollers Weekly Newsletter is a CircuitPython-community-run newsletter emailed every Monday. The complete archives are [\[here\]\(https://www.adafruitdaily.com/category/circuitpython/\)](https://www.adafruitdaily.com/category/circuitpython/). It highlights the latest Python on hardware related news from around the web including CircuitPython, Python and MicroPython developments.

To contribute your own news or project, edit next week's draft [on GitHub](#) and [submit a pull request](#) with the changes. You may also or email cpnews@adafruit.com, or tag a post with #CircuitPython on Mastodon, Bluesky, or X (formerly known as Twitter),.

03:21 State of CircuitPython, Libraries and Blinka

This report contains information from the previous seven days. Any changes (PRs merged, etc.) made today are not included in this report.

03:36 Overall

- 53 pull requests merged
 - 13 authors - Timeline8, tekktrik, pantheraleo-7, cinderblockgames, FoamyGuy, bablokb, dhalbert, BZab, ilario, justmobilize, hexthat, BlitzCityDIY, jepler
 - 7 reviewers - ladyada, makermelissa, tekktrik, BlitzCityDIY, eightycc, FoamyGuy, dhalbert
- 13 closed issues by 8 people, 11 opened by 10 people

03:52 Core

- 11 pull requests merged
 - 6 authors - Timeline8, tekktrik, hexthat, jepler, bablokb, dhalbert
 - 2 reviewers - eightycc, dhalbert
- 19 open pull requests
 - <https://github.com/adafruit/circuitpython/pull/9094> (Open 432 days) (draft)
 - <https://github.com/adafruit/circuitpython/pull/9349> (Open 348 days)
 - <https://github.com/adafruit/circuitpython/pull/9559> (Open 282 days)
 - <https://github.com/adafruit/circuitpython/pull/9844> (Open 185 days) (draft)
 - <https://github.com/adafruit/circuitpython/pull/9883> (Open 174 days)
 - <https://github.com/adafruit/circuitpython/pull/9909> (Open 160 days) (draft)
 - <https://github.com/adafruit/circuitpython/pull/9955> (Open 140 days)
 - <https://github.com/adafruit/circuitpython/pull/10023> (Open 119 days)
 - <https://github.com/adafruit/circuitpython/pull/10056> (Open 108 days)
 - <https://github.com/adafruit/circuitpython/pull/10080> (Open 102 days)
 - <https://github.com/adafruit/circuitpython/pull/10265> (Open 46 days) (draft)
 - <https://github.com/adafruit/circuitpython/pull/10283> (Open 40 days)
 - <https://github.com/adafruit/circuitpython/pull/10287> (Open 39 days) (draft)
 - <https://github.com/adafruit/circuitpython/pull/10297> (Open 36 days)
 - <https://github.com/adafruit/circuitpython/pull/10303> (Open 31 days) (draft)
 - <https://github.com/adafruit/circuitpython/pull/10320> (Open 24 days)
 - <https://github.com/adafruit/circuitpython/pull/10354> (Open 16 days) (draft)
 - <https://github.com/adafruit/circuitpython/pull/10369> (Open 9 days)
 - <https://github.com/adafruit/circuitpython/pull/10379> (Open 5 days)
- 4 closed issues by 3 people, 5 opened by 5 people
- 768 open issues
 - <https://github.com/adafruit/circuitpython/issues>
- 9 active milestones
- 10.0.0: 18 open issues
- 10.0.x: 1 open issues
- 10.x.x: 42 open issues
- 11.0.0: 7 open issues
- 9.2.x: 0 open issues
- Libraries: 16 open issues
- Long term: 638 open issues

- Support: 29 open issues
- Third-party: 16 open issues
- 2 issues not assigned a milestone

05:36 Libraries

- Adafruit Libraries: 363 Community Libraries: 165 (Total: 528)
- 41 pull requests merged
 - 7 authors - **ilario**, justmobilize, BlitzCityDIY, **pantheraleo-7**, **cinderblockgames**, FoamyGuy, **BZab**
 - 5 reviewers - ladyada, tekktrik, BlitzCityDIY, FoamyGuy, dhalbert
 - Merged pull requests:
 - https://github.com/adafruit/Adafruit_CircuitPython_INA219/pull/39 (Days open: 61)
 - https://github.com/adafruit/Adafruit_CircuitPython_Fingerprint/pull/57 (Days open: 52)
 - https://github.com/adafruit/Adafruit_CircuitPython_hashlib/pull/23 (Days open: 12)
 - https://github.com/adafruit/Adafruit_CircuitPython_INA3221/pull/8 (Days open: 11)
 - https://github.com/adafruit/Adafruit_CircuitPython_Bundle/pull/507 (Days open: 3)
 - https://github.com/adafruit/Adafruit_CircuitPython_Requests/pull/213 (Days open: 2)
 - https://github.com/adafruit/Adafruit_CircuitPython_SEN6x/pull/1 (Days open: 1)
 - https://github.com/adafruit/Adafruit_CircuitPython_OPT4048/pull/3 (Days open: 1)
 - [s-light/CircuitPython_ansi_escape_code](https://github.com/s-light/CircuitPython_ansi_escape_code)

09:52 Blinka

- 1 pull requests merged
 - 1 authors - FoamyGuy
 - 2 reviewers - makermelissa, FoamyGuy
- 13 open pull requests
 - https://github.com/adafruit/Adafruit_Blinka_bleio/pull/40 (Open 1333 days)
 - https://github.com/adafruit/Adafruit_Python_PlatformDetect/pull/335 (Open 521 days) (draft)
 - https://github.com/adafruit/Adafruit_Blinka/pull/884 (Open 292 days) (draft)
 - https://github.com/adafruit/Adafruit_Blinka_Displayio/pull/140 (Open 288 days)
 - https://github.com/adafruit/Adafruit_Blinka/pull/888 (Open 275 days)
 - https://github.com/adafruit/Adafruit_Blinka/pull/908 (Open 205 days) (draft)
 - https://github.com/adafruit/Adafruit_Python_PlatformDetect/pull/372 (Open 172 days)

- https://github.com/adafruit/Adafruit_Blinka_Displayio/pull/143 (Open 137 days) (draft)
- https://github.com/adafruit/Adafruit_Blinka_Displayio/pull/156 (Open 98 days)
- https://github.com/adafruit/Adafruit_Blinka_Raspberry_Pi5_Piomatter/pull/43 (Open 34 days)
- https://github.com/adafruit/Adafruit_Blinka_Raspberry_Pi5_Neopixel/pull/9 (Open 34 days)
- https://github.com/adafruit/Adafruit_Blinka_Raspberry_Pi5_rp1pio/pull/22 (Open 34 days)
- https://github.com/adafruit/Adafruit_Blinka_PyPortal/pull/24 (Open 1 days)
- 2 closed issues by 2 people, 1 opened by 1 people
- 154 open issues
 - https://github.com/adafruit/Adafruit_Blinka/issues
- Number of supported boards: 162

10:27 Hug reports

10:42 @Liz (hosting)

- @foamyguy for working on the OPT4048 library and guide
- Group hug!

10:59 @danh

- @Timeline8 for fixes
- @tekktrik for recent GitHub actions and library work
- @Sola85 for diagnosing an old problem and finding some new ones

11:35 @david.glaude (not present)

- Group Hug!

11:40 @foamyguy

- @Tekktrik for reviewing some library PRs & Looking into some other library / docs issues
- @danh for looking into an issue with the report files uploaded to S3

12:24 Status Updates

12:42 @Liz (hosting)

- Last week I worked on a CircuitPython library for the SEN6x sensors. This library is used in the Learn Guide for the new SEN6x STEMMA QT adapter breakout which will likely be live later this week.
- This week I wrote some CircuitPython code for an LED matrix clock. It uses two of the STEMMA QT IS31FL3741 breakouts for the clock display with an ESP32-S3 QT Py and Audio BFF for some audio alarm functionality. I'll also be working on documenting the INA237 breakout.

13:33 @danh

- Fixed mpy-cross builds to be statically linked again (regression during a previous merge).
- Switched from gcc13 to gcc14 on circuitpython `main` branch.
- Did reviews.
- Working on MicroPython v1.24.1 merge. Going smoothly so far. Will do v1.25 after that.

15:01 @david.glaude (not present)

- Progress on displaying EVVC (Solar panel and EV car charging) on various hardware, while trying to keep a single code base:
 - Trying to dynamically adapt to various screen sizes from different hardware.
 - Will need to change font size depending on screen size, or display less information on smaller screens.
 - Creating a function (in a separate python file) to isolate the network initialisation. It does detect the board or using the right calls for a AirLift or WizNet Featherwing (based on an extra variable in settings.toml). The function returns `socket_pool` and `ssl_context` for later use with `minimqtt`.
 - Creating a Text only version, using `print` rather than `displayio`, to be able to test the network code on `picoW` or other board without screen attached.
 - Currently working combo:
 - PyPortal
 - Memento
 - T-Watch (and other Lilygo ESP+Screen board)
 - Feather RP2040 + FeatherWing AirLift => Text only output
 - Feather RP2350 + FeatherWing WizNet => HSTX/DVI output

16:00 @foamyguy

- Finished OPT4048 driver and guide
- Updating 8.x `displayio` API usage in many libraries, almost through all of them found from a search in github
- Added `AnyDisplay` type annotation to `circuitpython_typing`
- Blinka `Displayio` - Removed 8.x API compatibility & fixed circular import issue
- Wrote code for Feather S2 deep sleep and post data to AIO example and troubleshooting an issue with corrupted flash

18:26 In The Weeds

@david.glaude (not present)

- Is there an easy way to autodetect what network stack is possibly available on a board?
=> Are the following assumptions right? How would you suggest doing that?
 - Assumption 1: If the module "wifi" is present, you are on an ESP or PicoW/Pico2W and you should use that.

