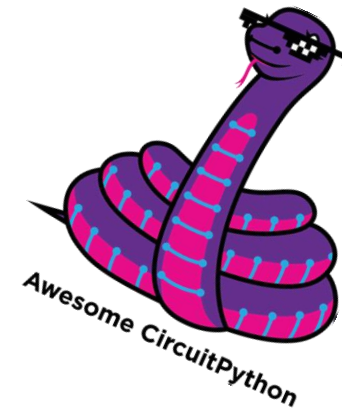


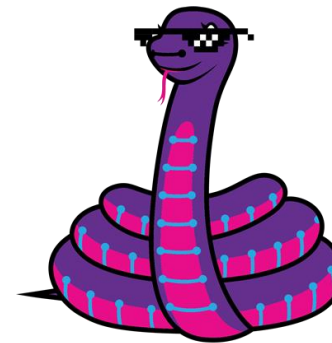
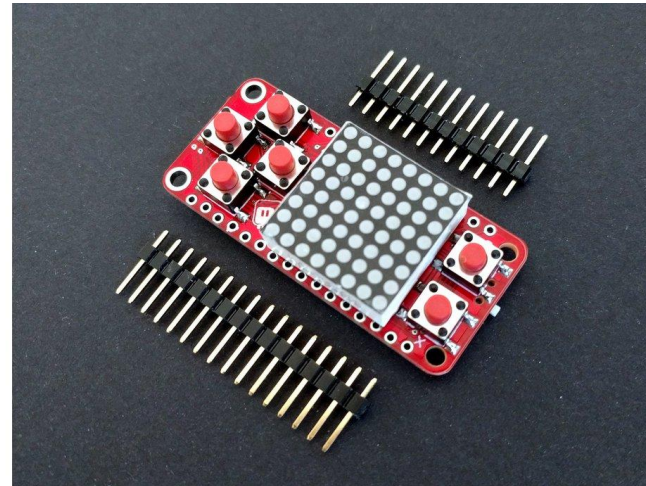


PewPew

Noc Informatyka 2019

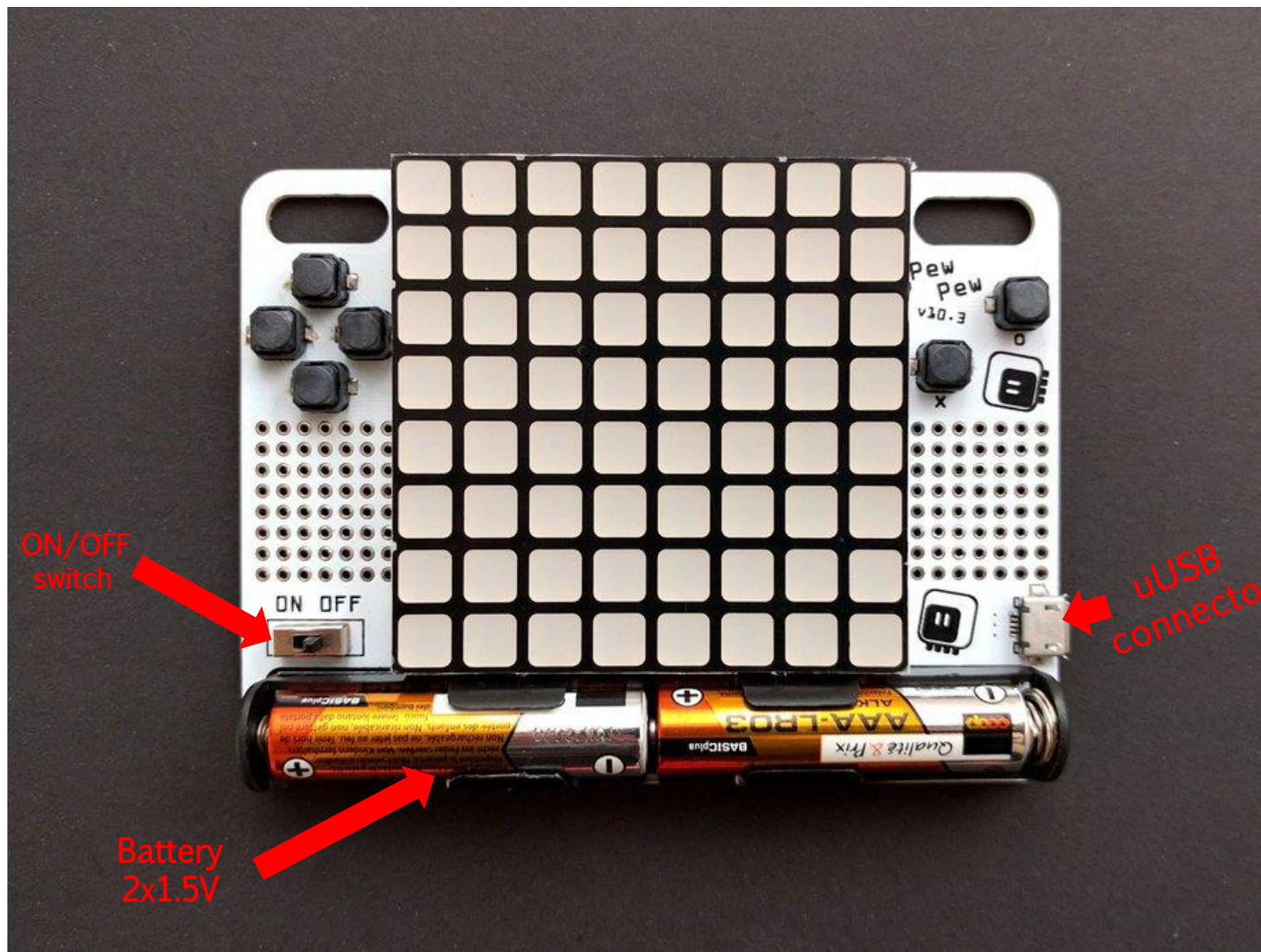


PewPew Python Boards

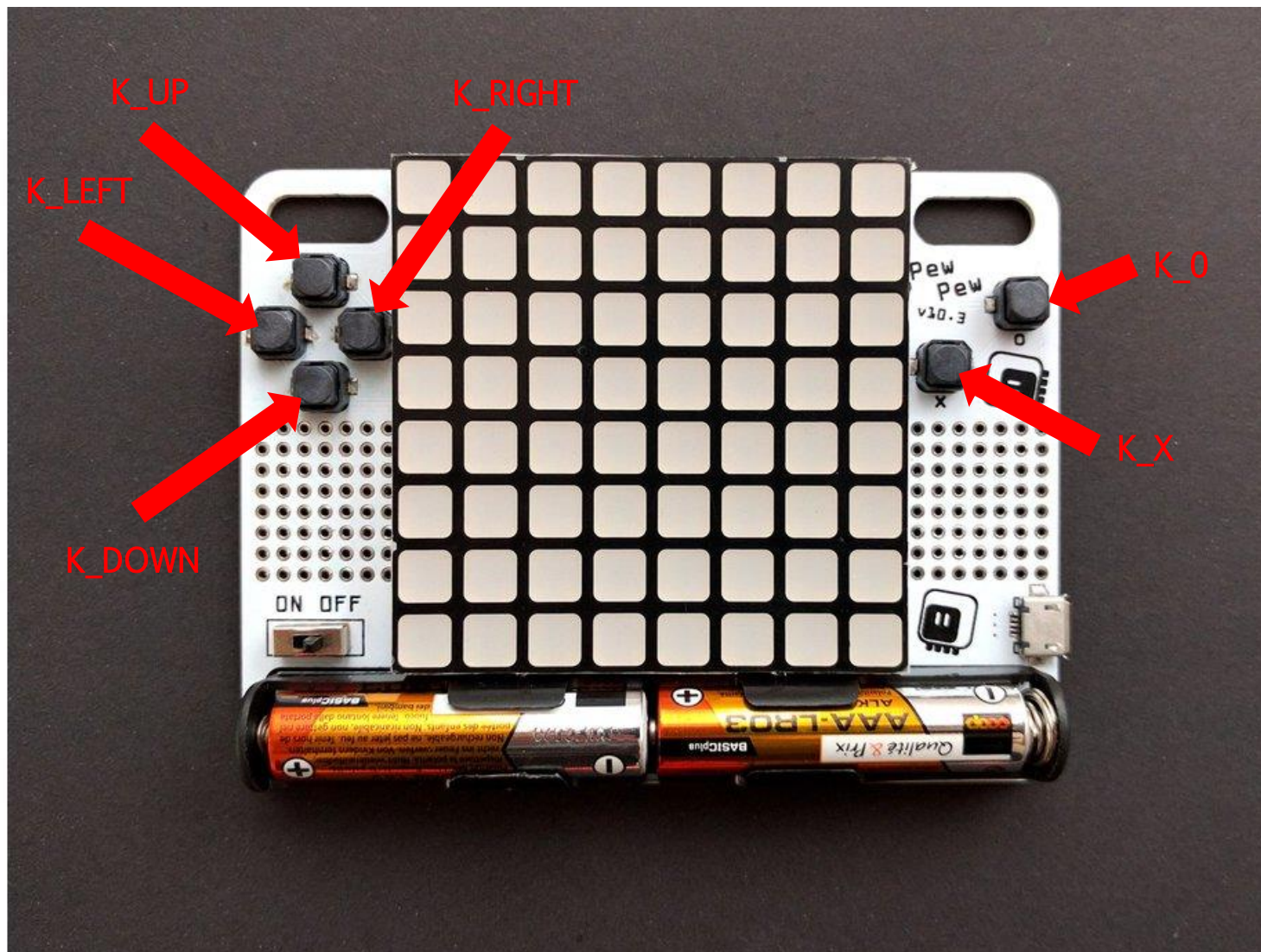


Awesome CircuitPython

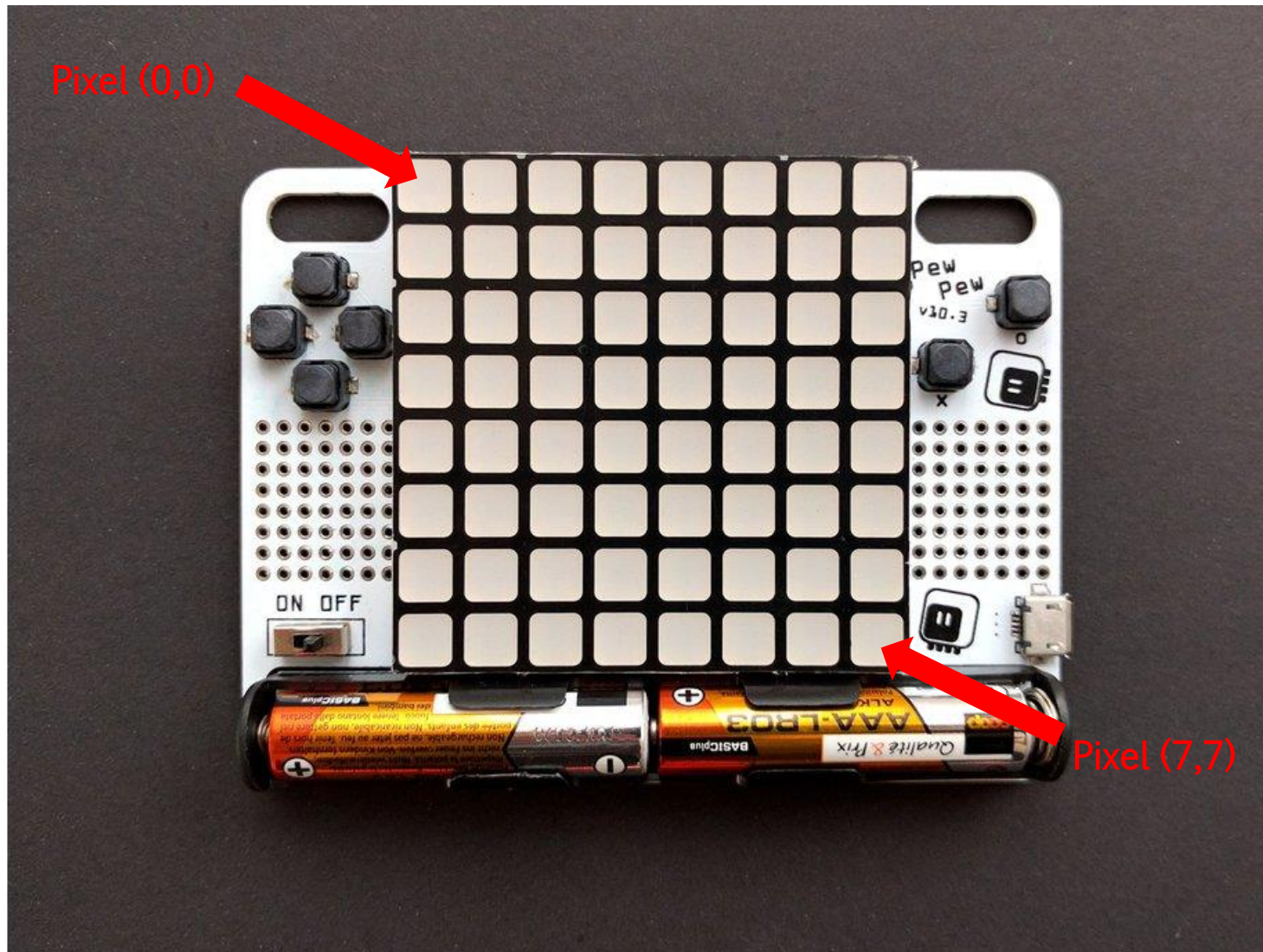
PewPew Equipment



PewPew Buttons



PewPew Matrix 8x8 pixels



How to use PewPew?

1. Connect PewPew to your computer
2. Check new disk
3. Create in new disc “code.py”
4. Open file and write code
5. Save file
6. See the result on the PewPew



PewPew Library Reference

`pew.init()`

Initialize the module.

This function switches the display on and performs some basic setup.

`pew.brightness(level)`

Set the brightness of the display, from **0** (minimum) to **15** (maximum).
On devices that don't support varying the brightness this does nothing.

`pew.show(pix)`

Show the provided image on the display, starting at the top left corner.
You will want to call this once for every frame.

`pew.keys()`

Return a number telling which keys (or buttons) have been pressed since the last check. The number can then be filtered with the `&` operator and the `K_X`, `K_DOWN`, `K_LEFT`, `K_RIGHT`, `K_UP`, and `K_O` constants to see whether any of the keys was pressed.

`pew.tick(delay)`

Wait until `delay` seconds have passed since the last call to this function. You can call it every frame to ensure a constant frame rate.

`class pew.Pix(width=8, height=8, buffer=None)`

`Pix` represents a drawing surface, `width` pixels wide and `height` pixels high. If no `buffer` is specified for storing the data, a suitable one will be automatically created.

`classmethod from_iter(cls, lines)`

Creates a new `Pix` and initializes its contents by iterating over `lines` and then over individual pixels in each line. All the lines have to be at least as long as the first one.

`classmethod from_text(cls, text, color=None, background=0, colors=None)`

Creates a new `Pix` and renders the specified text on it. It is exactly the size needed to fit the specified text. New lines and other control characters are rendered as spaces.

If `color` is not specified, it will use yellow and red for the letters by default. Otherwise it will use the specified color, with background color as the background.

Alternatively, `colors` may be specified as a 4-tuple of colors, and then the `color` and `background` arguments are ignored, and the four specified colors are used for rendering the text.

`pixel(self, x, y, color=None)`

If `color` is specified, sets the pixel at location `x, y` to that color. If not, returns the color of the pixel at that location. If the location is out of bounds of the drawing surface, returns 0.

box(*self*, *color*, *x=0*, *y=0*, *width=self.width*, *height=self.height*)

Draws a filled box with the specified color with its top left corner at the specified location and of the specified size. If no location and size are specified, fills the whole drawing surface.

blit(*self*, *source*, *dx=0*, *dy=0*, *x=0*, *y=0*, *width=None*, *height=None*, *key=None*)

Copied the source drawing surface onto this surface at location specified with dx and dy. If x, y, width and height are specified, only copies that fragment of the source image, otherwise copies it whole. If key color is specified, that color is considered transparent on the source image, and is not copied onto this drawing surface.

Example

We will make it start at coordinates 0, 0, and we will draw it with color 3, which is the brightest:

```
import pew

pew.init()
screen = pew.Pix()
x = 0
y = 0
while True:
    screen.pixel(x, y, 3)
    pew.show(screen)
    pew.tick(1/12)
```

Reference:

- › <https://pewpew.readthedocs.io/en/latest/index.html>
- › <http://blog.oshpark.com/2018/09/02/pewpew-python-based-micro-game-console/>
- › <https://blog.europython.eu/post/185584014022/europython-2019-warning-spoiler-alert>
- › <https://blog.adafruit.com/2019/06/14/europython-2019-spoiler-attendees-getting-circuitpython-powered-pewpew-game-consoles-circuitpython-badge-life-gaming-python-europython-deshipu/>
- › <https://www.tindie.com/products/deshipu/pewpew-lite-featherwing/>
- › <https://zszywka.pl/p/--19589389.html>
- › <https://pewpew.readthedocs.io/en/latest/pew.html>

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thank you

tusind tak
謝謝 dakujem vám
ngiyabonga
dziękuję
merc
baie dankie
धन्यवाद molte grazie
gracias
obrigada
obrigado
takk
gràcies
tänan
teşekkür ederim
شكرا
tack så mycket
dank u
mahalo
suksema
danke