

VINTAGE COMPUTER FESTIVAL ZÜRICH 2025

GUESTBOOK

GAME BOY

ポケットカメラ

The GameBoy Camera, introduced in 1998, turned the handheld console into one of the earliest consumer portable digital cameras. Using a CMOS sensor, it captures 128x112-pixel images in a 2-bit gray-scale format (4 shades). The camera's lens can swivel 180 degrees, enabling front- and rear-facing shots 4 years before the word "selfie" had been coined.

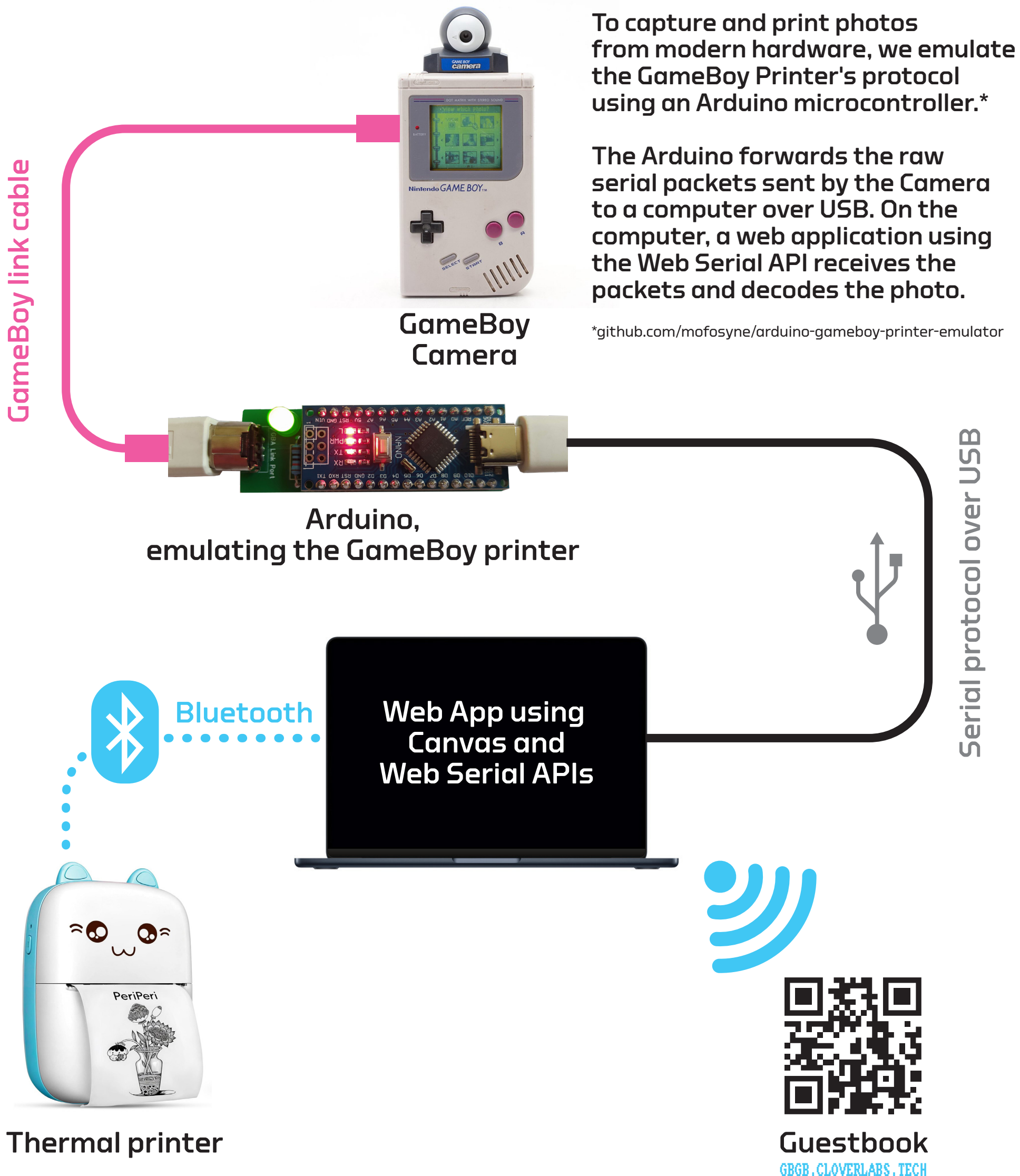
The device is powered by the GameBoy's 8-bit, 4 MHz Sharp processor, leveraging the console's 8KB RAM for image processing. Photos can be manipulated with built-in software for editing and creative overlays and printed using the GameBoy Printer, which uses a proprietary printing protocol and thermal paper for monochrome image output.



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To capture and print photos from modern hardware, we emulate the GameBoy Printer's protocol using an Arduino microcontroller.*

The Arduino forwards the raw serial packets sent by the Camera to a computer over USB. On the computer, a web application using the Web Serial API receives the packets and decodes the photo.

*github.com/mofosyne/arduino-gameboy-printer-emulator