



Hacking USB on the Cheap with USB-Tools

with [Kate Temkin](#), [Mikaela Szekely](#), [Great Scott Gadgets](#), and Friends

Current iteration: [See CTF System](#)

Getting Started & Materials

- [Environment setup: setting up your machine to hack USB -- and run the exercises](#)
- [Quick guide: flashing your target \('victim'\) boards](#)
- [Workshop Exercises and Mini-CTF Challenges](#)

Workshop Materials

Differing events and timeslots mean we won't always make it through this list, but here's a rough order:

- [1: Slides: Introduction](#)
- [2: Tutorial: Setting Up Your Environment](#)
- 3: Demo: \$4 USB Analysis with Sigrok & PulseView
- [4: Slides: USB Control Requests: a firmware-ish view](#)
- [5: Demo: Asking Devices to Describe Themselves](#)
- [6: Exercise 1: Exploring Vendor Requests](#)
- 7: Demos: A single solution to Exercise 1 and some more techniques.
- [8: Exercise 2: Mis-using USB](#)
- 9: Demos: Demo buffet! As many cool things as we can show you in the time left.

Reference

- [BeyondLogic's USB in a Nutshell](#)
- [USB 2.0 Specification](#)
 - [Chapter 9 \(USB Device Framework\) by itself, for your convenience](#)
 - [USB Document Search \(can easily find classes+addenda\)](#)

Hardware and Software Tools

- [GreatFET One/Azalea](#)
- [USB Tools Repository](#)
- [ViewSB USB Analyzer](#)

- [FaceDancer](#)
- [Sigrok: Logic Analyzer Software](#)