

Mozilla Curriculum Workshop - April 12th, 2016 - Prototyping Doc

Roll Call

- Amira
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Idea

A webpage or service that allows for asynchronous hangout-like interactions. A video-dialogue template or platform.

Imagine a [Stack Overflow](#) or other help page that uses video to share questions, answers, and feedback instead of text.

Or

The Internet of Hugs

Or

Hacking on mobile devices

Notes

Benchmarks, links, sketches, templates, plaintext code, etc.

Create a kit/support mechanism focusing on Internet of Hugs using common home items

What tech would we need to make this possible?

- Chibitronics.com: circuit stickers

- Download book here: <http://bunniefoo.com/chibi/sketchbook-en-v1.pdf>
- Paper circuits: <http://tinkering.exploratorium.edu/paper-circuits>
- littleBits.cc
- MakeyMakey.com
- Arduino <http://arduino.cc>
 - Gemma/Flora - wearable arduino platform
<https://www.adafruit.com/products/1222>
- Raspberry Pi <http://raspberrypi.org>
- Blink Blink <http://www.blinkblink.cc/diy/>

Internet-Connected or Wirelessly connected devices:

- Particle Electron (connects to cellular networks)
- Little Bits Cloud
- Electric Imp? (is this still around?)
- Light Blue Bean (Bluetooth Low Energy, connects to mobile devices)
- SAMS Labs <https://www.samlabs.com>
- Lego Mindstorms <http://mindstorms.lego.com>
- Tessel <http://tessel.io>
- Espruino <http://espruino.com>
- Zigbee/XBee (connect to each other)

What materials would we need?

- Essential middle school materials ;)
 - Cardboard
 - Hot glue
 - Cardstock
 - Scissors, cutting tools
 - Craft supplies - e.g. string, googly eyes, pipe-cleaners, straws
 - Markers, Sticky Notes
 - LEDs
 - Coin cell batteries
 - Wire (old Cat5 cables)
 - Alligator clips
- Scrap materials from labs or old devices available from schools (be intentional about breaking things)

How can we make it economical?

- Recommend tools or pieces or materials that you can integrate from inside your house

Still needed?

- Facilitation guide.

- Handbook for assemblies, code.+1