

Smart Mirror

a work-in-progress



Sam Foster

sfoster@mozilla.com



[samfosteriam](#)



[sfoster](#)

Motivations

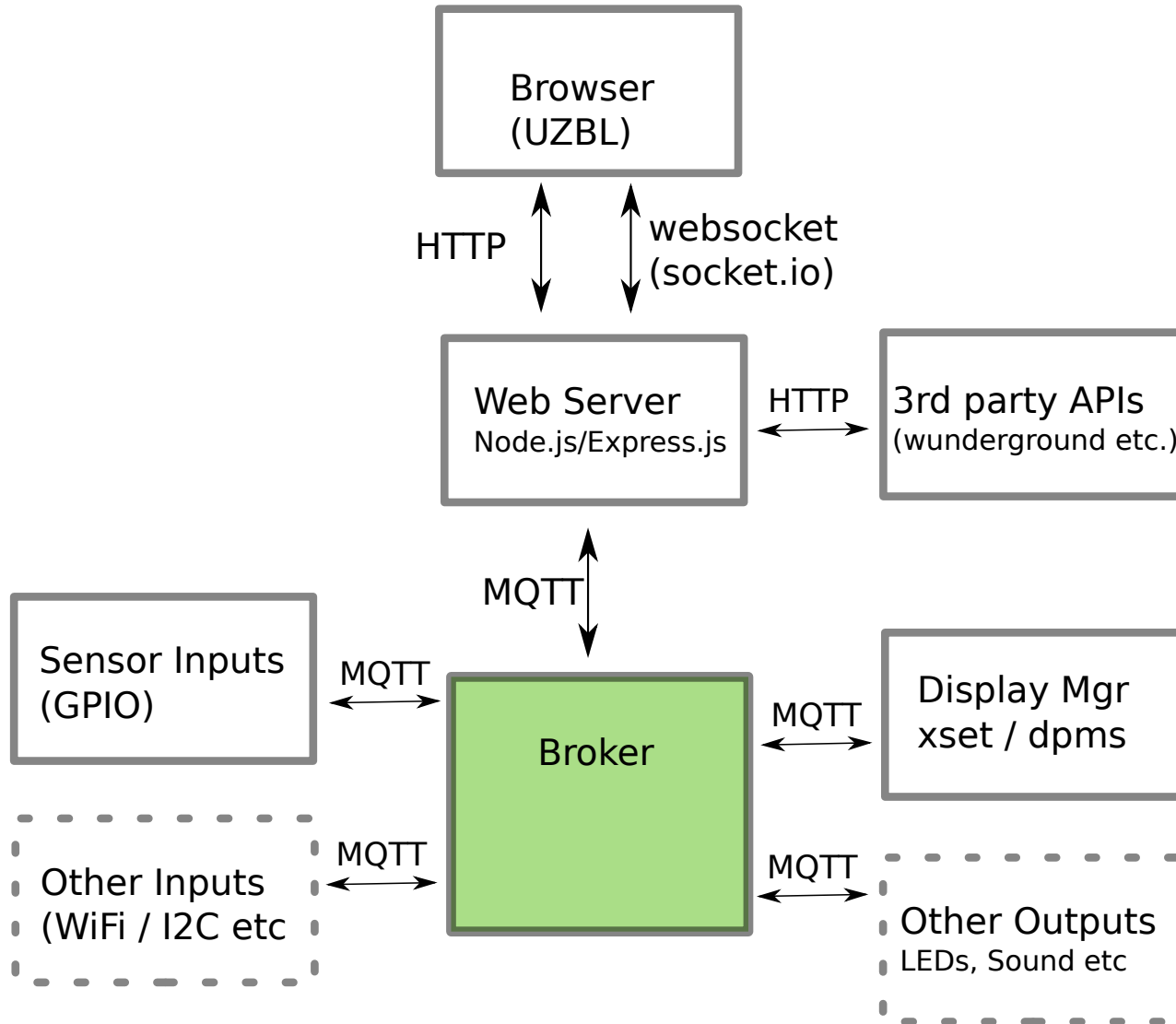


- Concrete “thing” to connect & interact with
- Clear fit with browser as front-end
- Mysteries & learning curves under the hood
- Different interaction model

Goals

- Make something useful
- Learn stuff along the way:
 - Raspberry PI as platform
 - Working with sensor input
 - Install & Deploy with hardware in the mix

System Overview



Design Considerations

- Keep It Simple Stupid
- Keep it Real
- Keep it Cheap

- Don't Touch: Hands-off experience
- Can it do...? Build Extensibly

Highlights / Lowlights

- Conventional browsers too heavy, 95% overkill
- Time consuming to learn & configure network, services, display/kiosk-mode browser
- Pub/Sub clear winner (MQTT)

What's Next?

- Trial by Family: Install for reals at home
- Add Z-Wave integration & Widget for local conditions
- Better presence detection
- Explore voice activation
- Troubleshoot setup & install for repeatability
- Face detection & Recognition?

Resources

- Scry Pi on Github
<https://github.com/sfoster/scry-pi>
- Mosquitto
<http://mosquitto.org/>
- Creating a Kiosk with Linux+X11
<http://www.alandmoore.com/blog/2011/11/05/creating-a-kiosk-with-linux-and-x11-2011-edition/>
- Dashing on the Raspberry Pi
<https://github.com/mivok/squirrelpouch/wiki/dashing-pi>
- Michael Teeuw's Magic Mirror
<http://michaelteww.nl/post/84026273526/and-there-it-is-the-end-result-of-the-magic>
- Scry Pi Build Blog
<http://www.sam-i-am.com/blog/2016/02/smart-mirror-build-log-intro.html>

Thank You!

