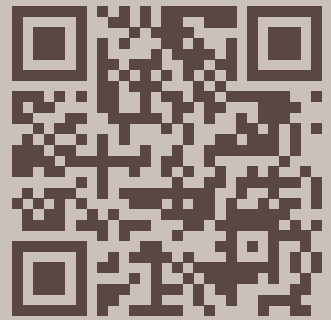
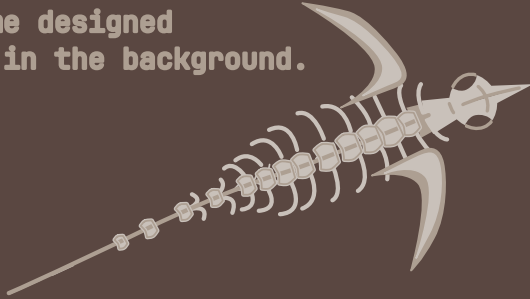


Backbone

A runtime designed
to work in the background.
forever.



The Problem

Let's say you need a good camera and a screen for a robot you're making. The traditional way is a raspberry pi (around 70 USD) with a CSI camera (\$25 for v3) and an official display (\$40 at least).

The scrappy way is to use a phone. If you don't have an old phone, you can find one on the used market for less than just a pi.

But phones

1. Run android, which is not really designed for embedded applications
2. Make it increasingly difficult to develop for with every generation
3. Come with non-unlockable bootloaders now

What Backbone Is

It's an app that you can install on any Android 5+ device, allow it access to the hardware, set it as the launcher and forget about.

Instead of developing for Android, you get this JS API:

```
backbone.startup(  
  url: string,  
  fullscreen: boolean,  
  shellCommand: string,  
  delay: number,  
)
```

These are the app settings:

- `shell`: command runs in termux at startup.
Default: ""
- `url`: link to your actual js app.
Default: localhost:2903 || backbone.snlx.net/app
- `delay` between shell and url.
Default: 0

```
backbone.central(deviceNames: string[]) // run as BLE central  
backbone.peripheral(deviceName: string) // run as BLE peripheral  
backbone.send(message: string, device?: string) // send a message over BLE  
backbone.onmessage: (message: string, device: string) => void
```

Peripherals can only send to central, so the device is optional for them.