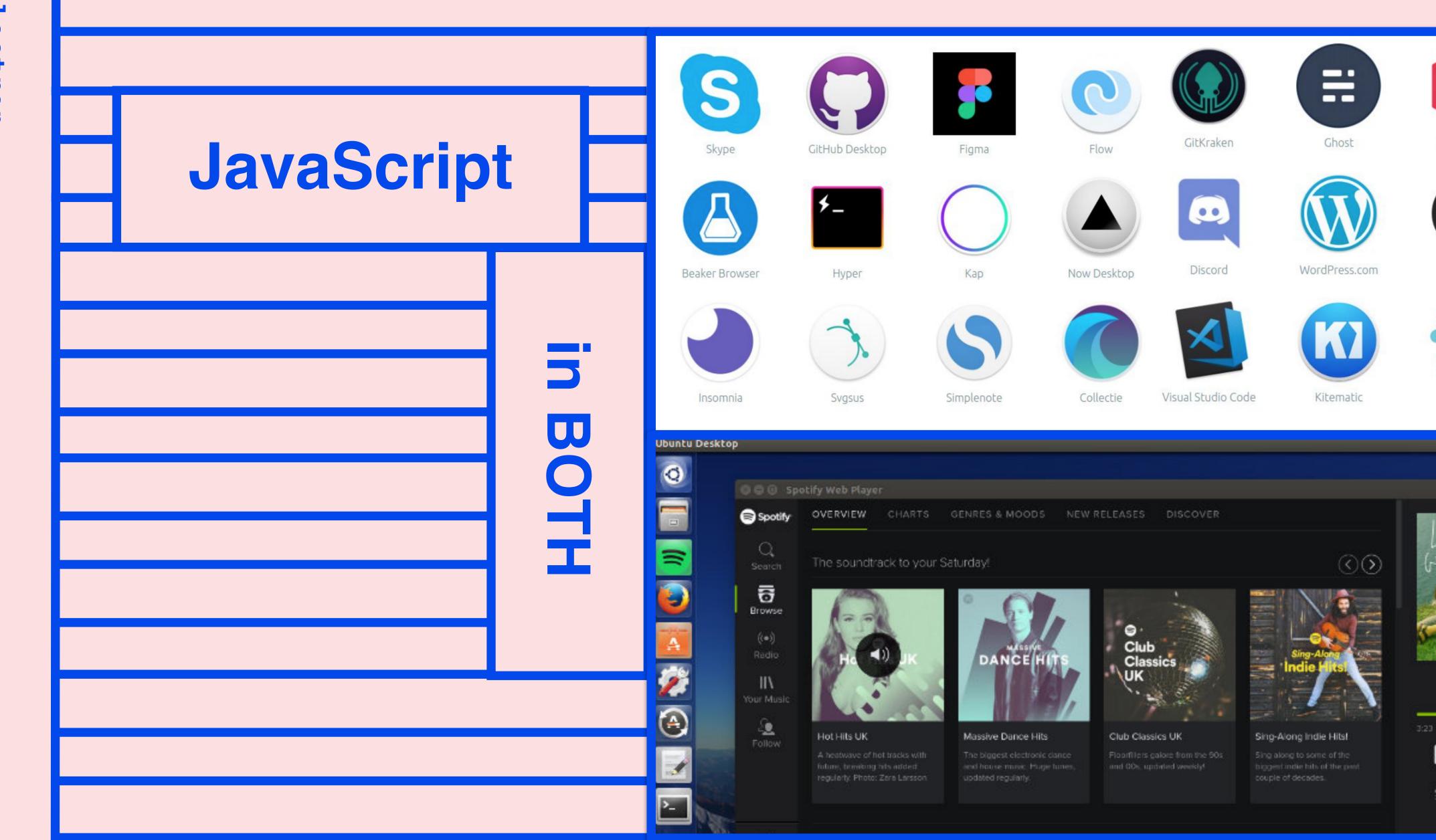


JavaScript

T B O T T

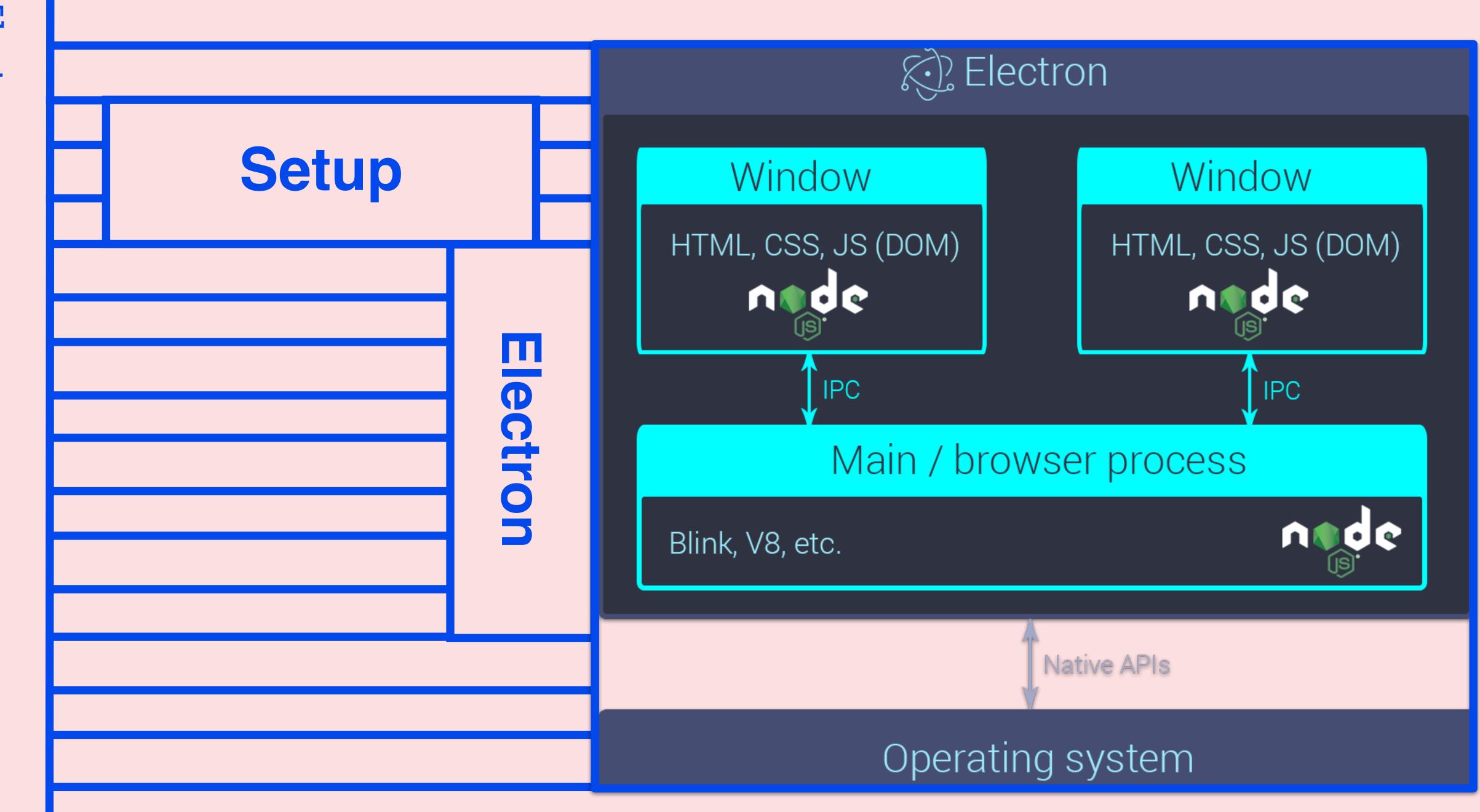


ELECTRON



jib

7 Years



Using the Quickstart Repo

We can skip a lot of the tedious steps of the setup process with

- > cd [path-to-cloned-repo]
- > npm i (or npm install)
- > npm run start

//instructions are also in the readme.md

Main.ts

This is the main Node.js process which hosts the rest of the application—creating the application window and responding to and OS events or apis

```
app.on("ready", () => {
    createWindow();

    app.on("activate", function () {
        // On macOS it's common to re-create a window in the app when the

        // dock icon is clicked and there are no other windows open.

        if (BrowserWindow.getAllWindows().length === 0) createWindow();
    });
});
```

Renderer.ts

This code is run within the index.html file and runs the same way our existing code has run before

- > cd [path-to-cloned-repo]
- > npm i (or npm install)
- > npm start

Inter-Process Communication

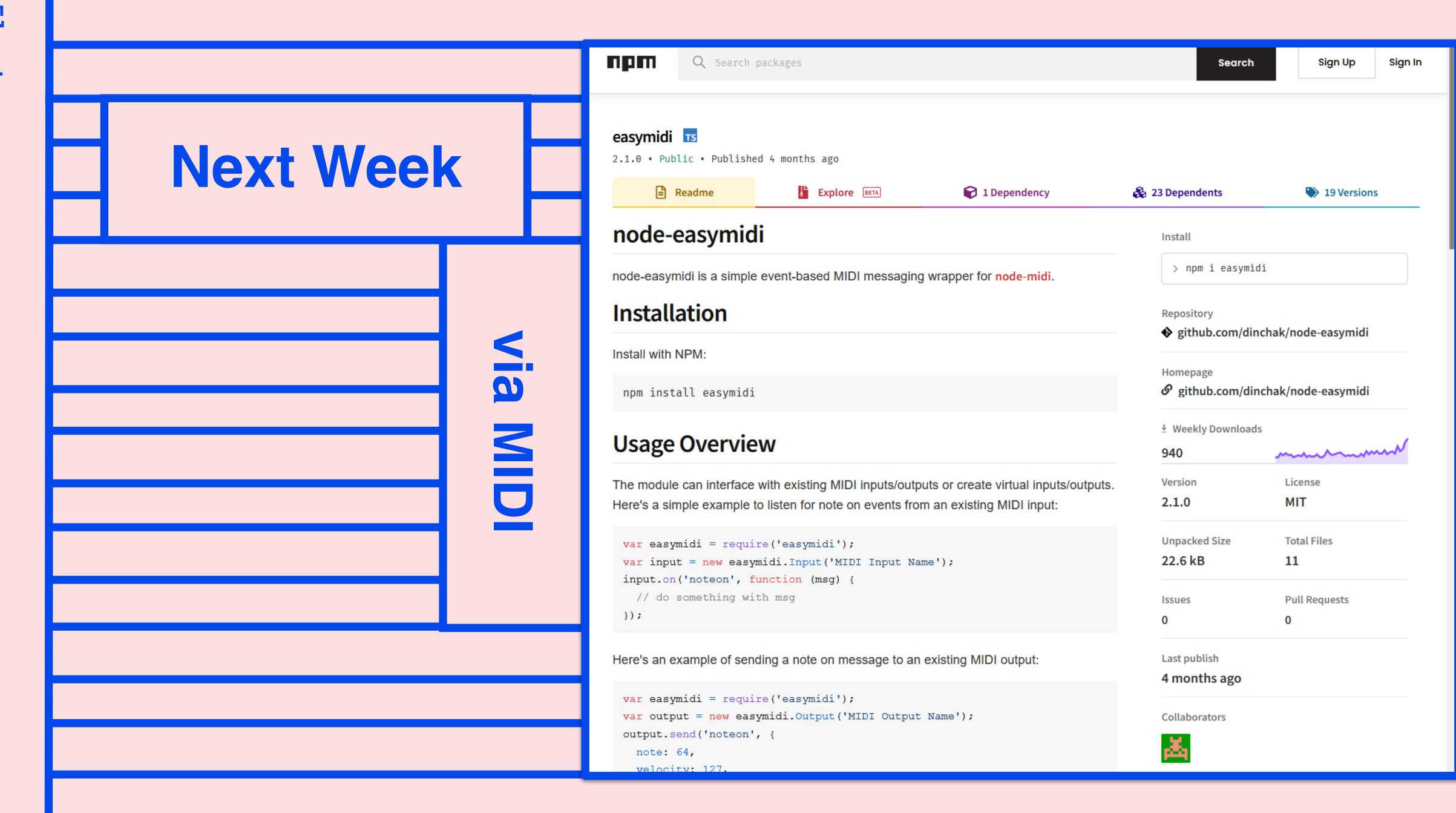
```
We can also communicate between the main
and render processes to let the view of
our app react to changes based on desktop
actions or apis
https://www.electronjs.org/docs/latest/
tutorial/ipc
const { contextBridge, ipcRenderer } =
require('electron')
contextBridge.exposeInMainWorld('electronAPI', {
  handleCounter:(callback)=>
   ipcRenderer.on('update-counter', callback)
```

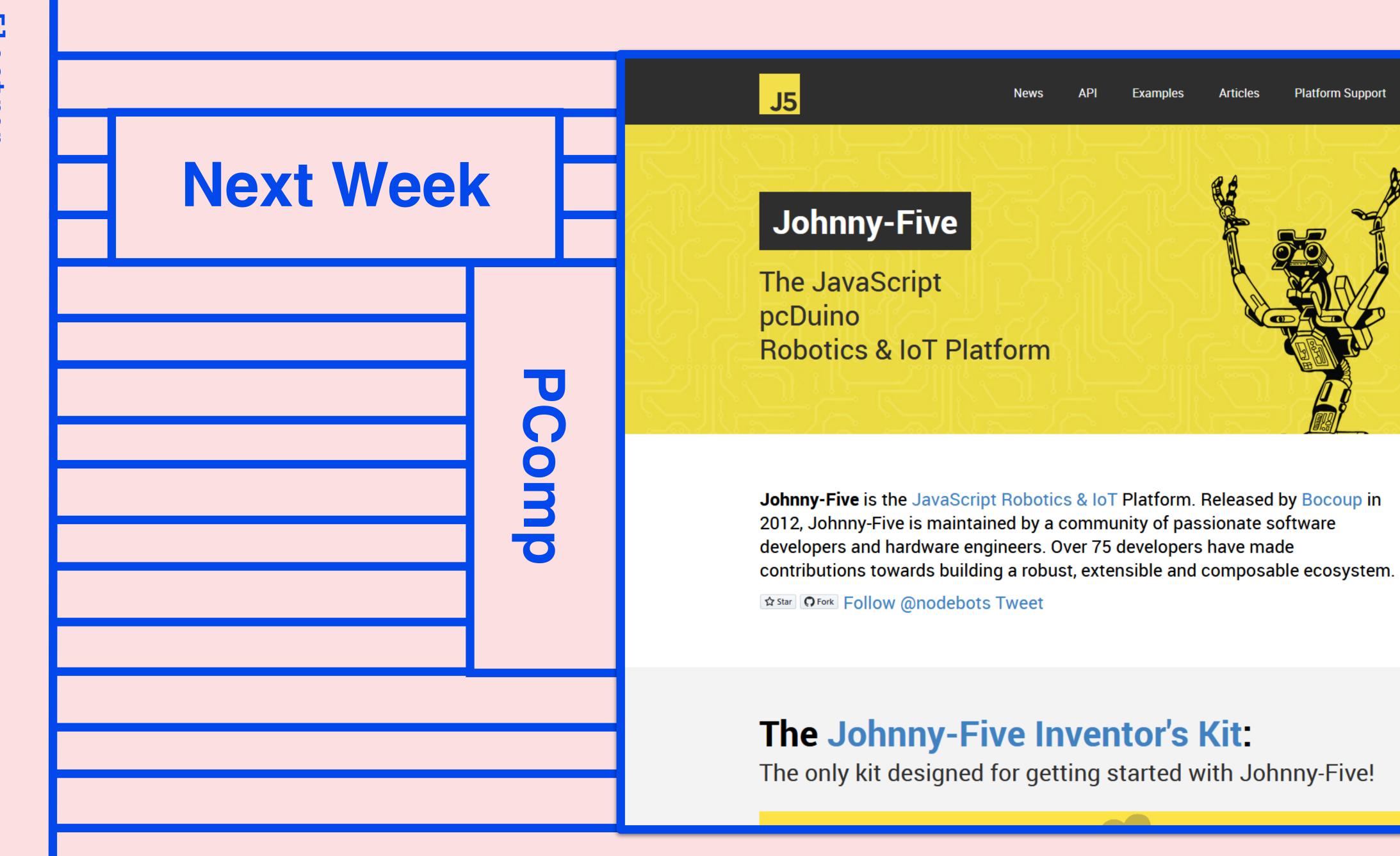
Build for distribution

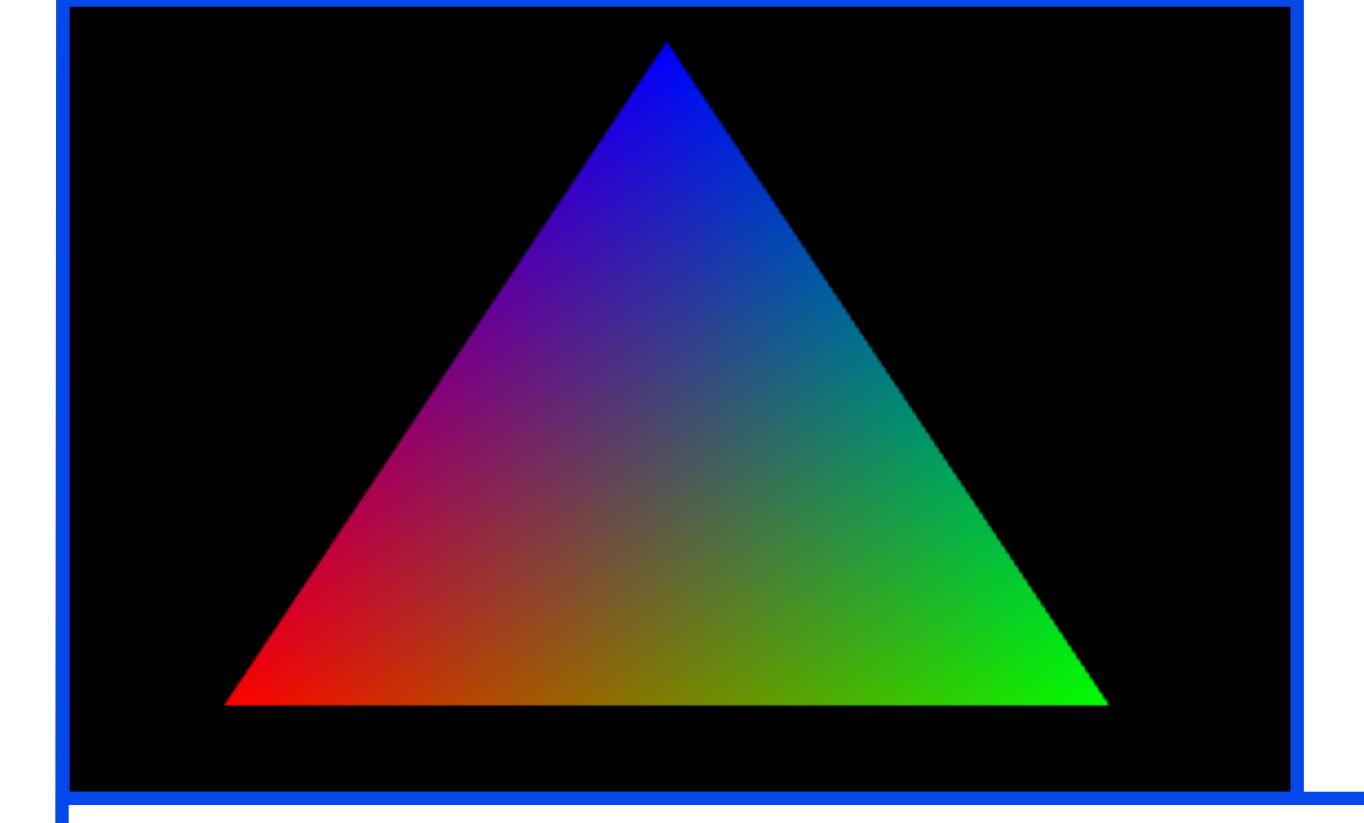
We can then take our code, and fully compile it into a desktop app for many different OSes

https://www.electronforge.io/

> npm run build







Homework for 3/6

Midterm

Your midterm assignment is designed to demonstrate competency in the fundamentals of WebGL programming we have been learning with Pixi.js. You will make your own interactive, screen-based artwork. Your sketch needs to contain at least a few objects (they can be from the same class) that behave independently from one another or compose together to facilitate a broader intended experience.

Taking into consideration responsiveness, accessibility, and aesthetics there should be some form of interaction for your audience. This could be through, mouse movements, UI objects, external inputs etc. Your code must be clearly and thoroughly commented throughout - indicating what is your original contribution and where you have derived inspiration from somewhere else.

You'll have 10 minutes to present and collect feedback in class. Be sure to include documentation of your process and exploration when presenting. Keep in mind that giving feedback to classmates also contributes to your participation grade.