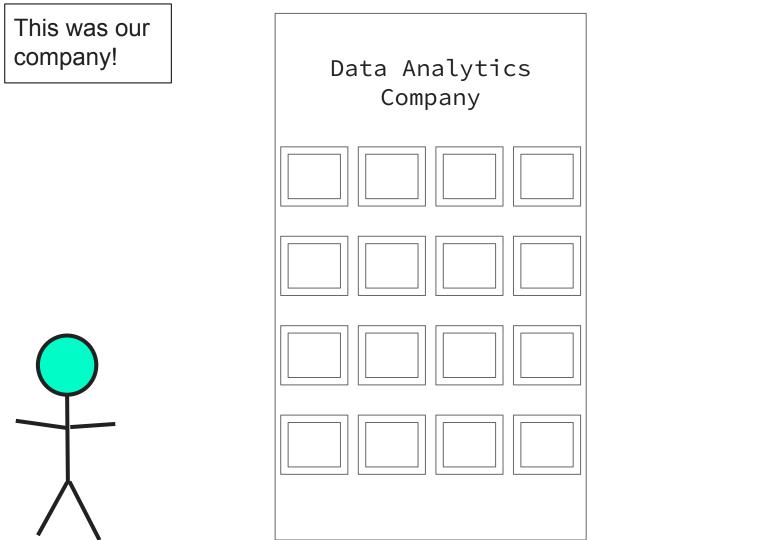
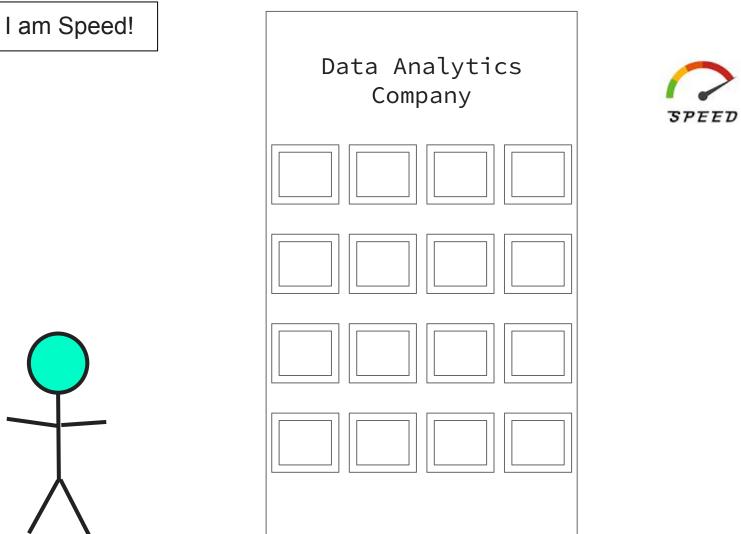
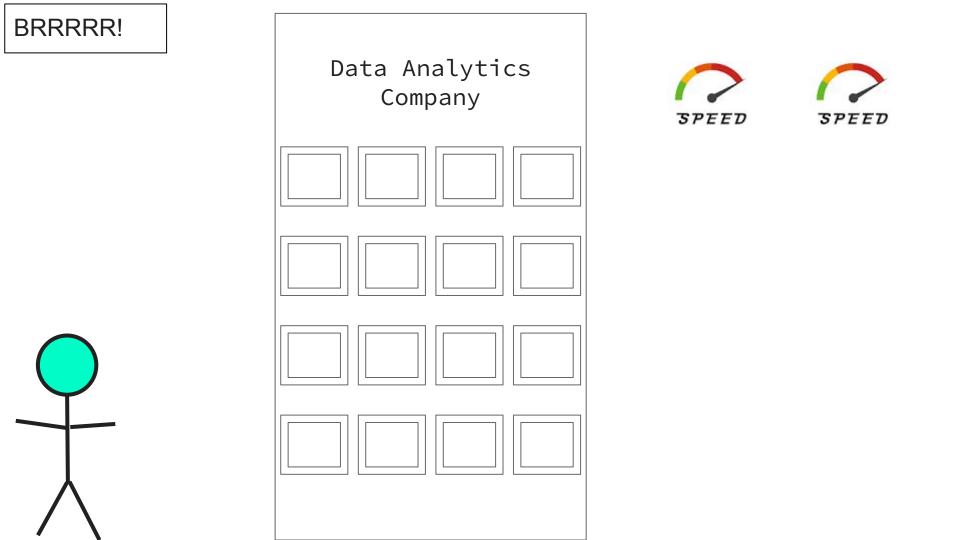
UNLEASHING PYTHON ON TO THE BROWSER

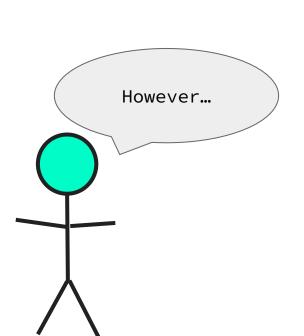


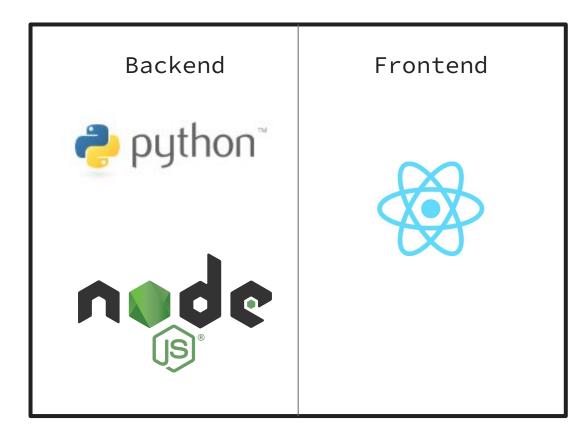


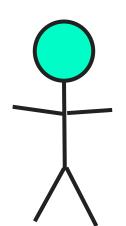


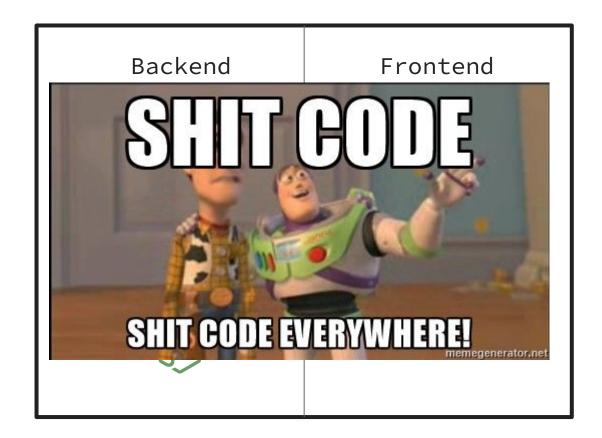


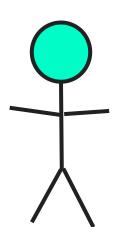


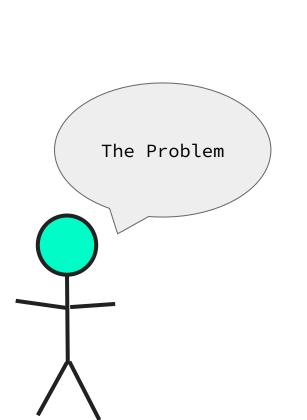








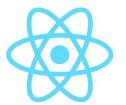




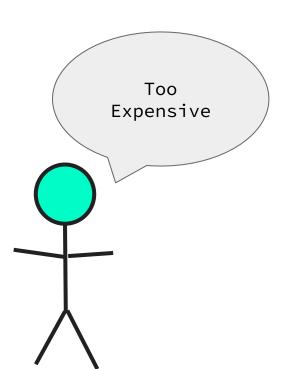
Backend **?** python™



Frontend











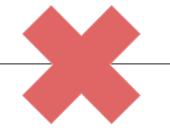






Run it in the Browser?!















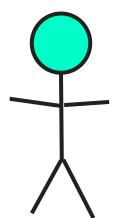














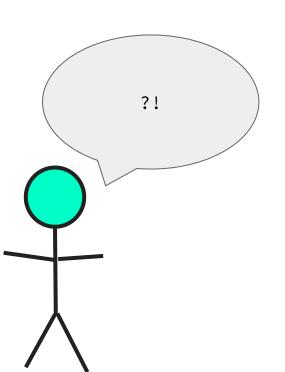


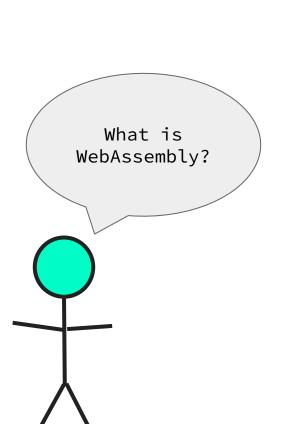


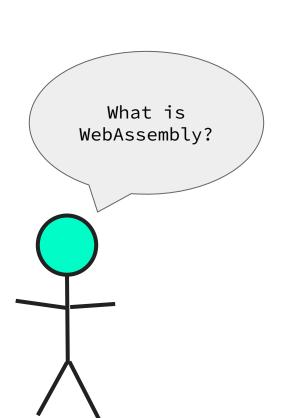




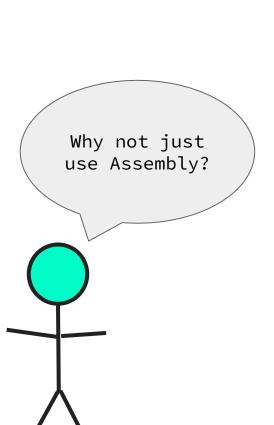


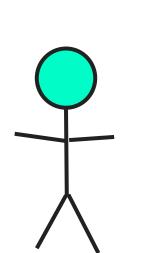


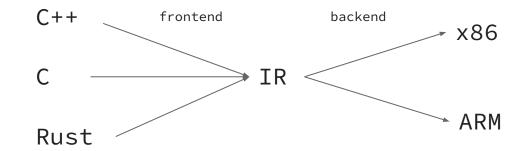


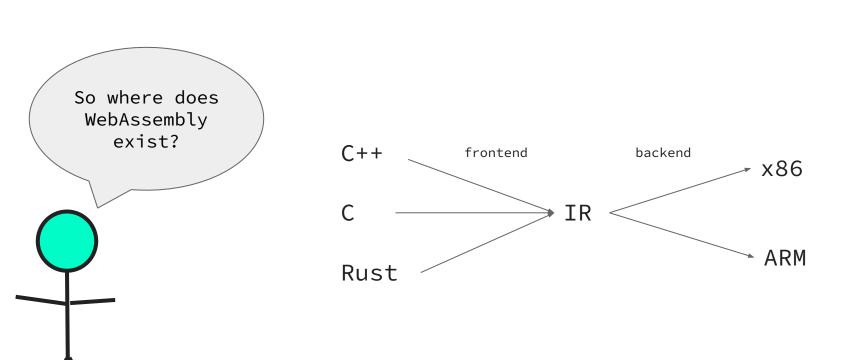


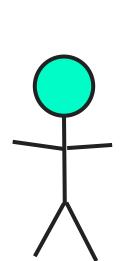
WebAssembly is a low-level assembly-like language with a compact binary format that runs with near-native performance and provides languages such as C/C++, C# and Rust with a compilation target so that they can run on the web.

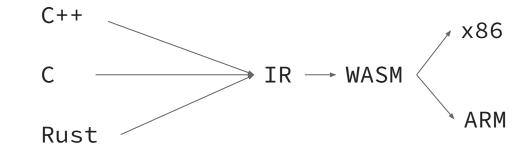


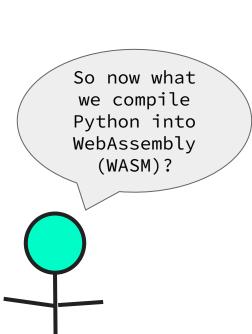


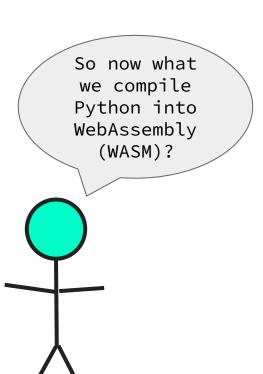






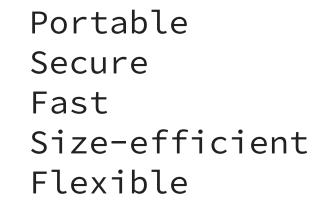


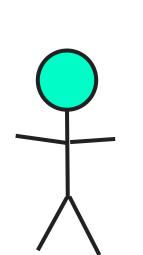




NO!

Features of WASM





WASM imports

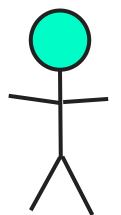
Functions

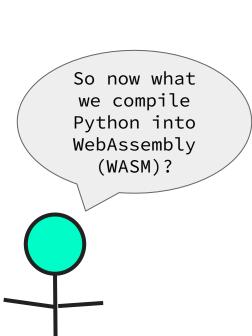


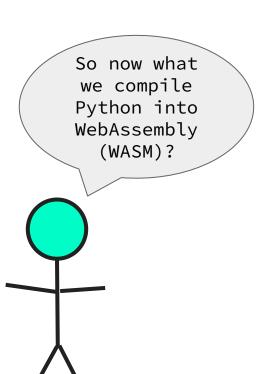




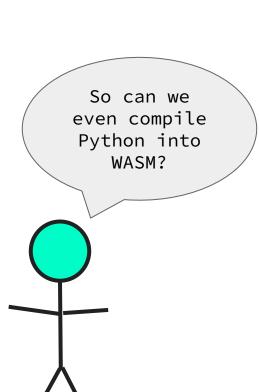
emscripten

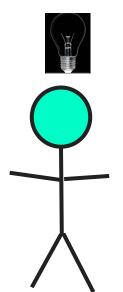






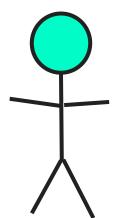
NO!





We take **PythonC** and convert the whole interpreter to WASM

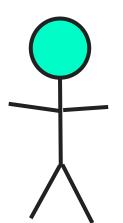


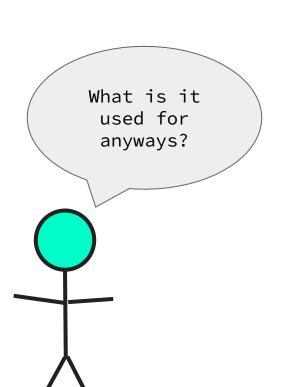




Setup: https://cdn.jsdelivr.net/pyodide/v0.25.0/full/pyodide.js

```
Run: async function main() {
let pyodide = await loadPyodide();
console.log(pyodide.runPython(`
    import sys
    sys.version
`));
};
main();
```





- 1. <u>JupyterLite</u>
- 2. PyScript
- 3. <u>Sandbox Environment</u>













