

What about native applications?

- Native applications have more variation in the language they use
- Operating systems: typically C, C++
- Web browsers: typically C++, maybe Rust (Firefox)
- Built-in applications, like calculators or similar: could be C# (Windows) or Swift (macOS)
- Common thread: typically compiled languages because speed is prioritized

Recap: Assembly to modern software

- Assembly is a low-level language that we can use to give the CPU instructions directly
- Assembly supports common programming constructs like arithmetic, reading and writing from memory, and calling functions
- However, writing assembly is difficult, so we have higher-level languages like C, C++, and Python that we can use instead, which are compiled (or interpreted) into machine code and then executed
- Most (if not all) modern applications use high-level languages, and many modern applications specifically use JavaScript due to wide usage of the language for sites on the web that has bled over to native applications