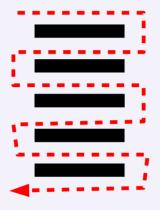


#### Interpreter

Immediately runs

Not so efficient; can run slow





#### Interpreter

Immediately runs

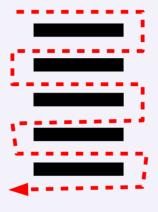
Not so efficient; can run slow



#### Interpreter

Immediately runs

Not so efficient; can run slow



### Compiler

Delay before running

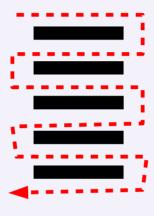
**Runs efficiently** 



#### Interpreter

Immediately runs

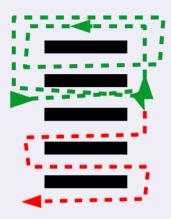
Not so efficient; can run slow



### Compiler

Delay before running

**Runs efficiently** 

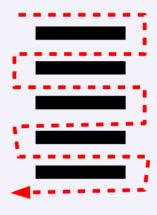




#### Interpreter

Immediately runs

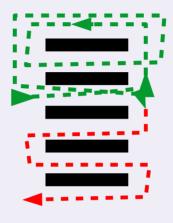
Not so efficient; can run slow



### Compiler

Delay before running

**Runs efficiently** 



#### **Just-in-time**

Immediately runs

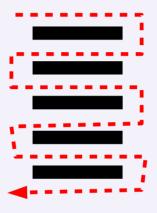
Runs very efficiently (all browsers 2008)



#### Interpreter

Immediately runs

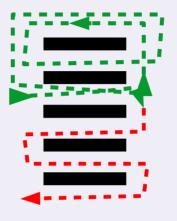
Not so efficient; can run slow



### Compiler

Delay before running

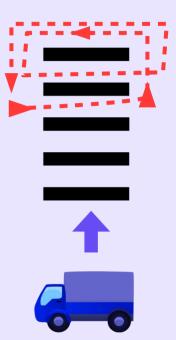
**Runs efficiently** 



#### Just-in-time

Immediately runs

Runs very efficiently (all browsers 2008)

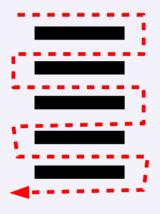




#### Interpreter

Immediately runs

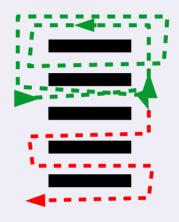
Not so efficient; can run slow



### Compiler

Delay before running

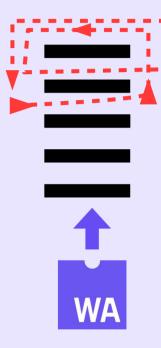
**Runs efficiently** 



#### **Just-in-time**

Immediately runs

Runs very efficiently (all browsers 2008)



### WebAssembly

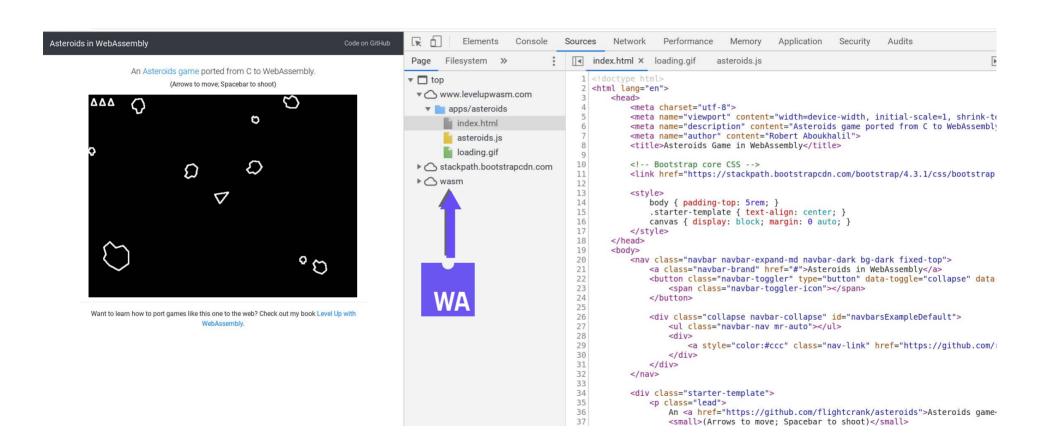
Immediately runs highly efficiently (MVP 2017)

### What is WebAssembly

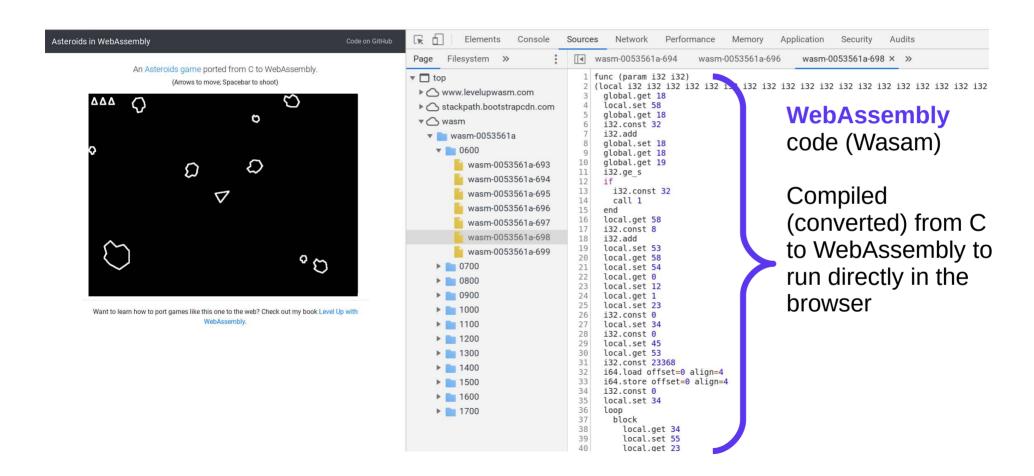
Asteroids in WebAssembly Code on GitHub



### What is WebAssembly

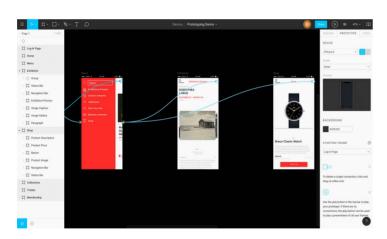


### What is WebAssembly

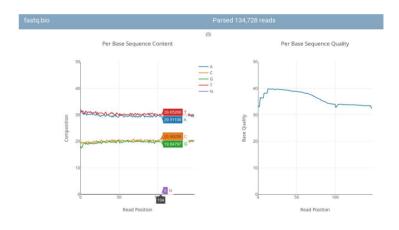


### Why is WebAssembly important?

# Faster than JavaScript



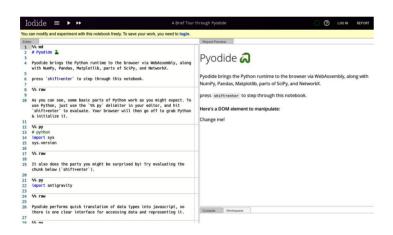
Figma 3X faster



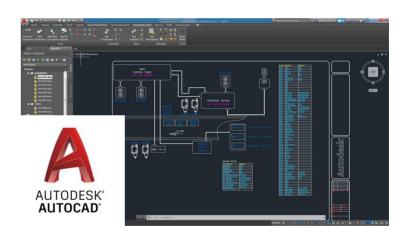
fastq.bio DNA sequencer 20X faster

### Why is WebAssembly important?

# Run established codebase



Pyodide is Python running on the browser via webAssembly for scientific and AI



AutoCAD web version uses identical codebase as desktop - C

### TL;DR

# WebAssembly Code is 'shipped in' via a binary blob

Allows faster execution than JavaScript

Allows established non JavaScript code via compiler to run on the web

