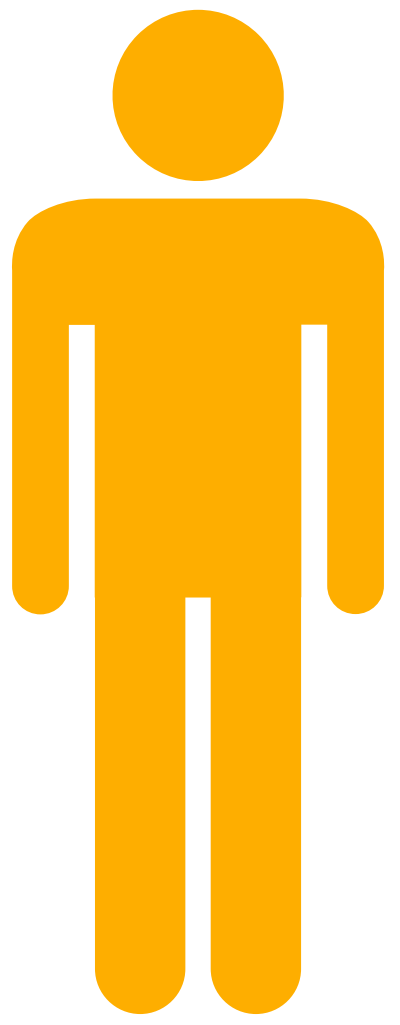
JavaScript Source Code

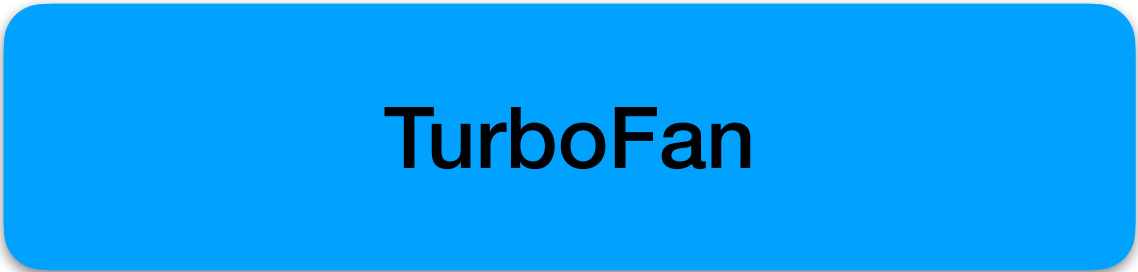
# Parsing into Abstract Syntax Tree

Ignition

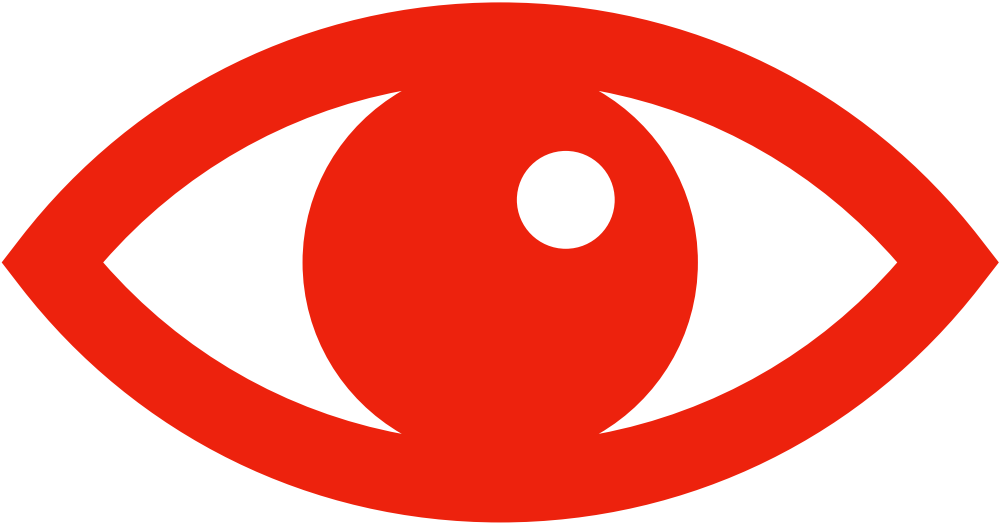
V8 Byte Code

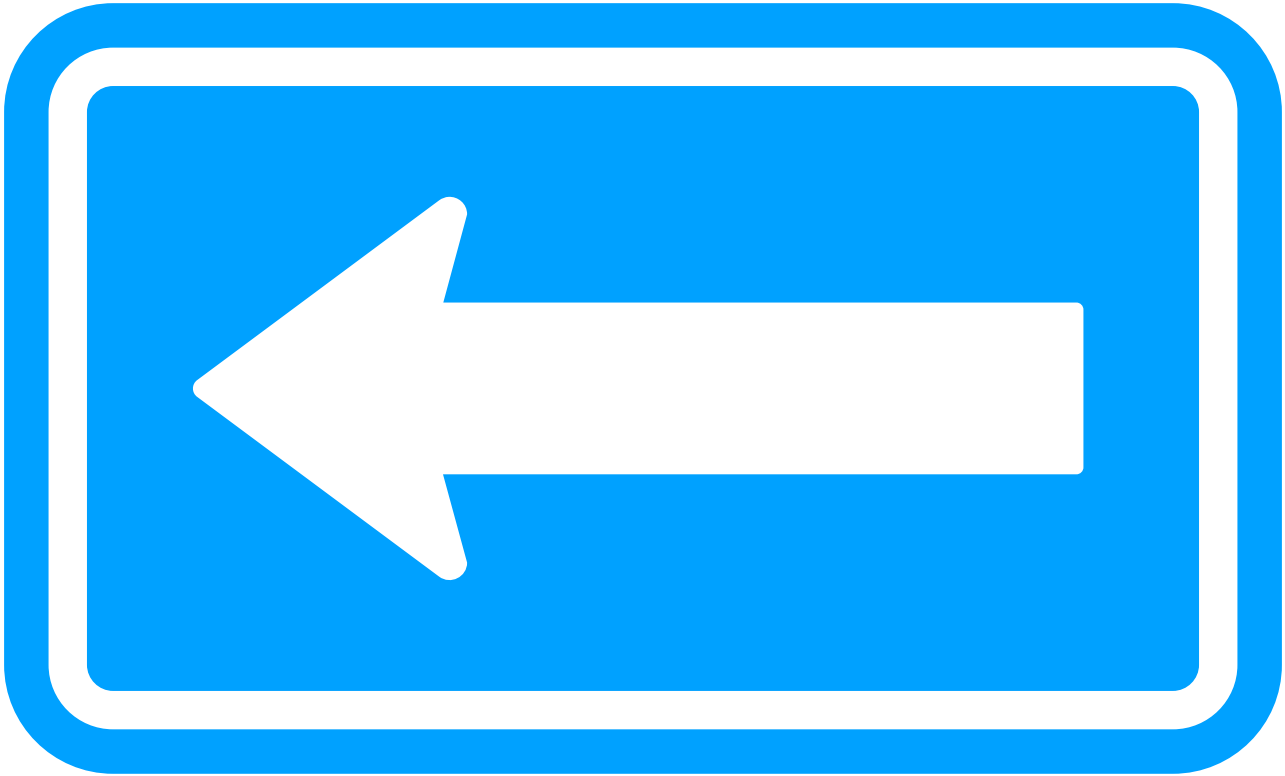


Node.js / Browser


TurboFan

Machine Code





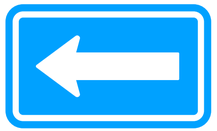
Optimised Machine Code

JavaScript Source Code

Parsing into Abstract Syntax Tree

Ignition

V8 Byte Code



TurboFan

Optimised Machine Code

Machine Code

Node.js / Browser

These kinds of compilers are built to minimise an execution time, memory footprint, etc.