wasm: open to interpretation

High level overview of webassembly, current uses

Compilers

Compilers enter the mix, how we use webassembly with them

Stack

What use is a stack machine, why use one? Let's write one and find out

Memory

Let's add memory to our stack machine

Goto

How can we ask the ultimate question of life if our machine can't decide?

Mandelbrot





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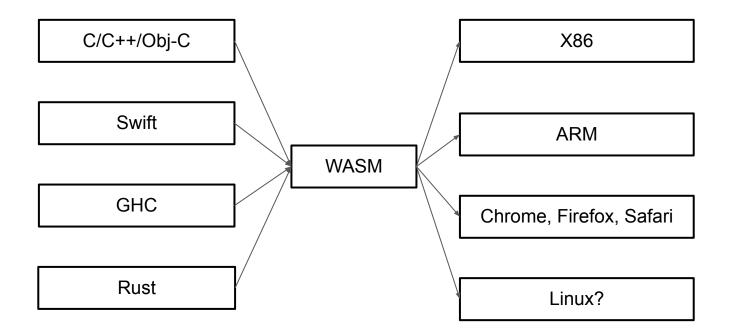
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Writing your own compiler is easier than ever now, thanks to two key technologies:

WASM, short for Low Level Virtual Machine, and
LLVM, short for Weird ASseMbly language

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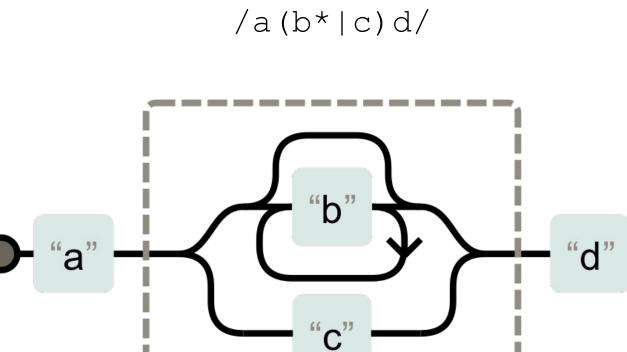
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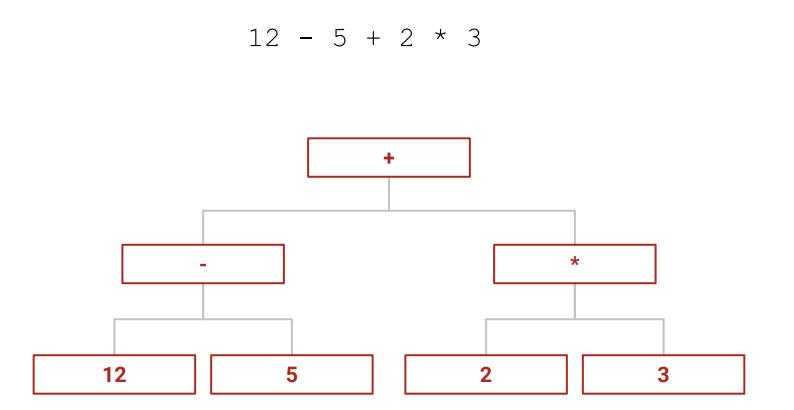
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Full stack developer



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64k should be enough for anyone

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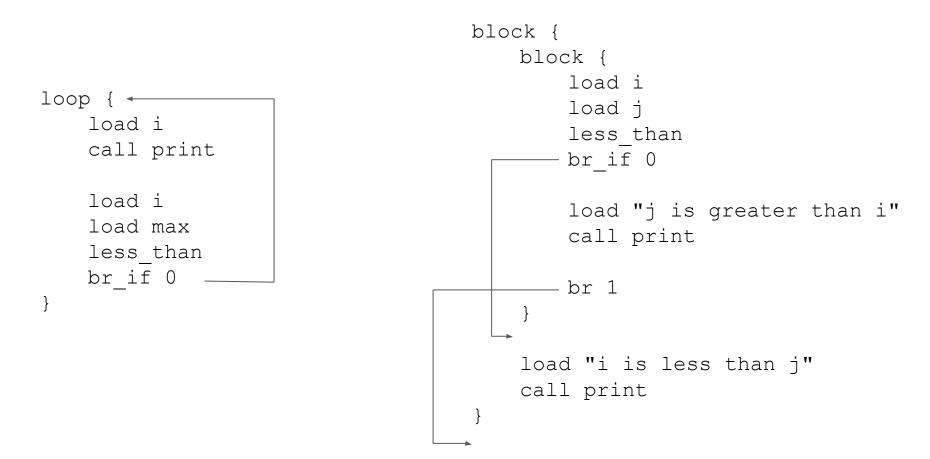
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Goto considered harmful



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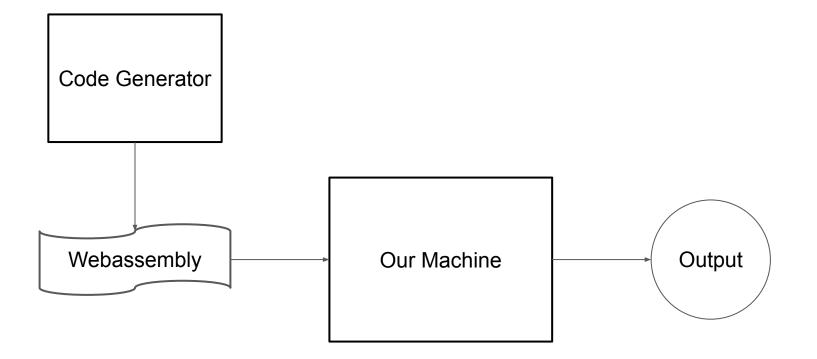
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Filmed at QCON San Francisco 2019

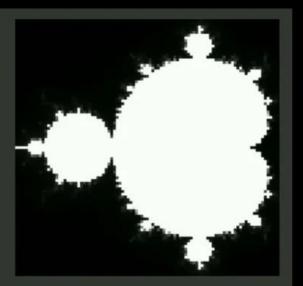
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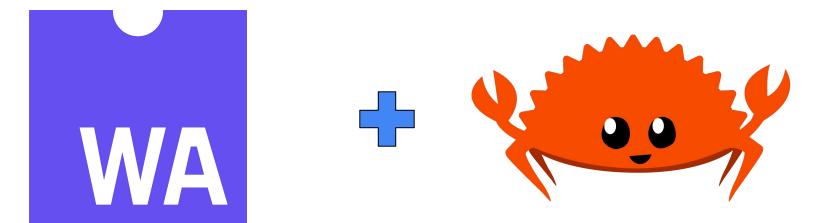
var y = 0while (y < 100) $\mathbf{y} = (\mathbf{y} + 1)$ var x = 0while (x < 100) $\mathbf{x} = (\mathbf{x} + 1)$

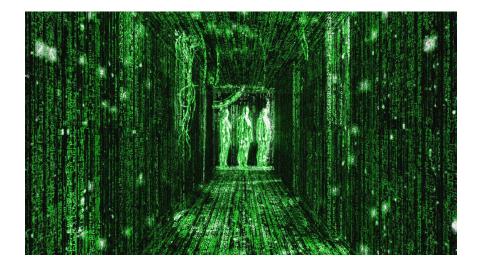
var e = ((y / 50) - 1.5)var f = ((x / 50) - 1)

var a = 0 var b = 0 var i = 0 var j = 0 var c = 0

while ((((i * i) + (j * j)) < 4) && (c < 255)) i = (((a * a) - (b * b)) + e) j = (((2 * a) * b) + f) a = i b = j c = (c + 1) endwhile







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Thanks!

