

Open Source and Work-Life Balance

Henry Zhu, @left_pad

RABBI

Repositories that depend on @babel/core

 1,196,720 Repositories  62,675 Packages

v7 downloads 34M/month

v6 downloads 24M/month

 babel / babel ✓

 Sponsor

 Used by ▾

113,470

 Unwatch ▾

 Unstar 34,472

"Success"

facebook



NETFLIX

mozilla

YAHOO!



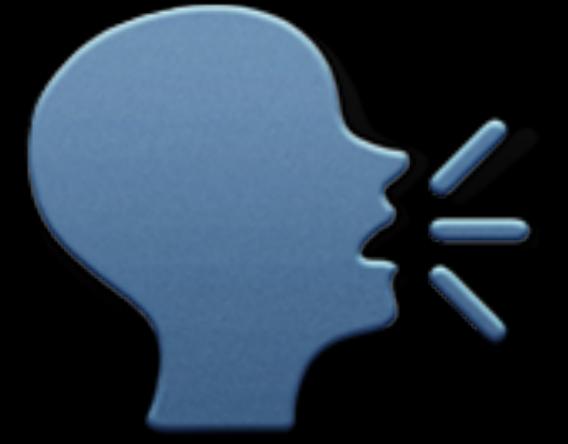
vimeo



Programming as Theory Building

It suggests that programming properly should be regarded as an activity by which the programmers form or **achieve a certain kind of insight, a theory**, of the matters at hand. This suggestion is in contrast to what appears to be a more common notion, that programming should be regarded as a **production of a program and certain other texts**.





Text Documents

ENGLISH - DETECTED ENGLISH SPANISH FREN CHINESE (SIMPLIFIED) ENGLISH SPANISH

babel 巴别塔

'babəl, 'bā-

Bā bié tǎ

5/5000

Speaker icon, microphone icon, edit icon, sound icon, square icon, three-dot menu icon

Translation

"transpiler"

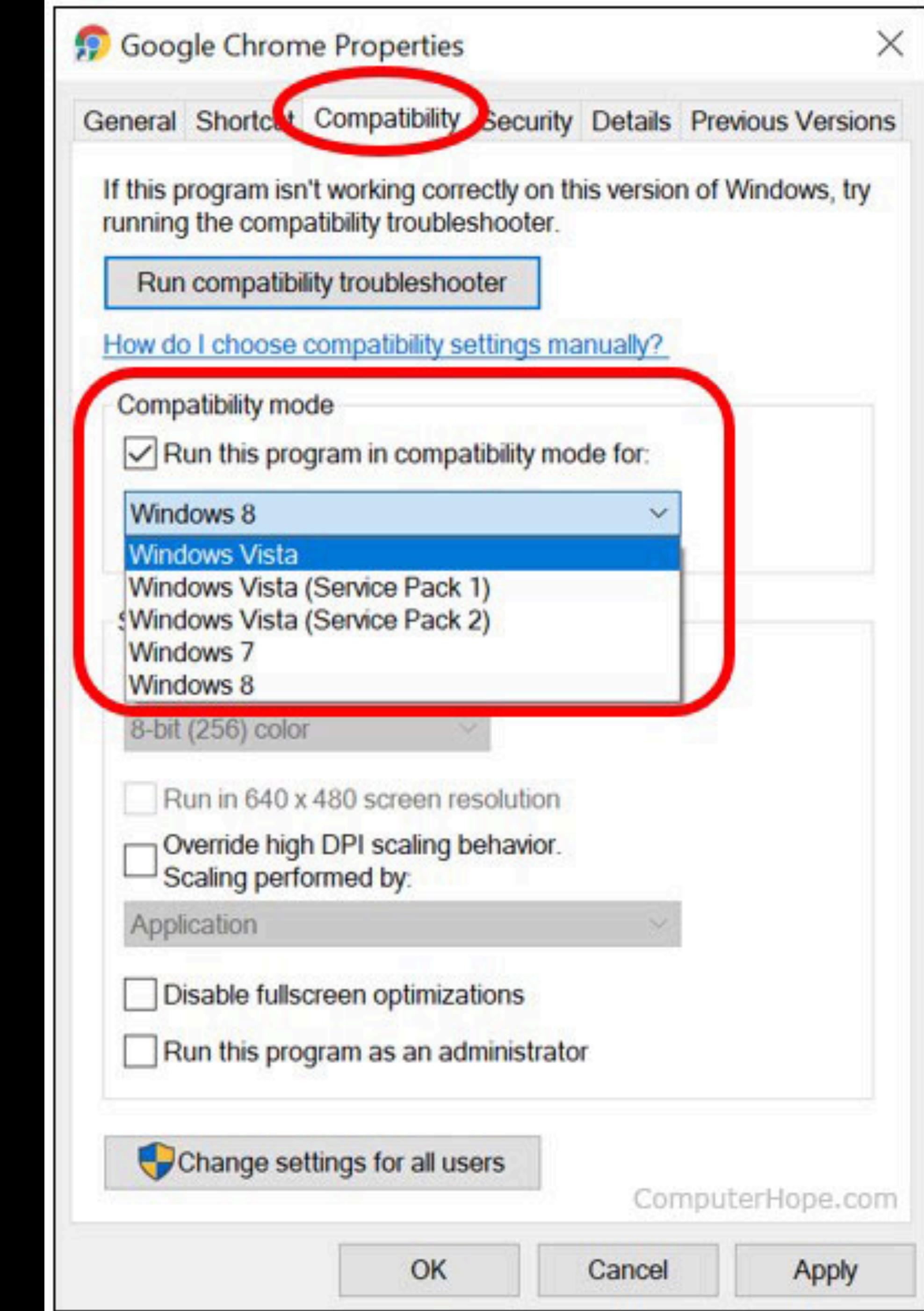
"transpiler" ==
"compiler"

Babel is a JavaScript compiler.

Use next generation JavaScript, today.

Backwards compatibility

Backwards compatibility



Backwards compatibility

Word Options

General
Display
Proofing
Save
Language
Advanced
Customize Ribbon
Quick Access Toolbar
Add-ins
Trust Center

Customize how documents are saved.

Save documents

Save files in this format:

Save AutoRecover information even if I don't save the document

Keep the last autosaved version

AutoRecover file location:

Don't show the Backstage when opening or saving files

Show additional places for saving, such as OneDrive

Save to Computer by default

Default local file location:

Word Document (*.docx)

Word Document (*.docx)

Word Macro-Enabled Document (*.docm)

Word 97-2003 Document (*.doc)

Word Template (*.dotx)

Word Macro-Enabled Template (*.dotm)

Word 97-2003 Template (*.dot)

Single File Web Page (*.mht, *.mhtml)

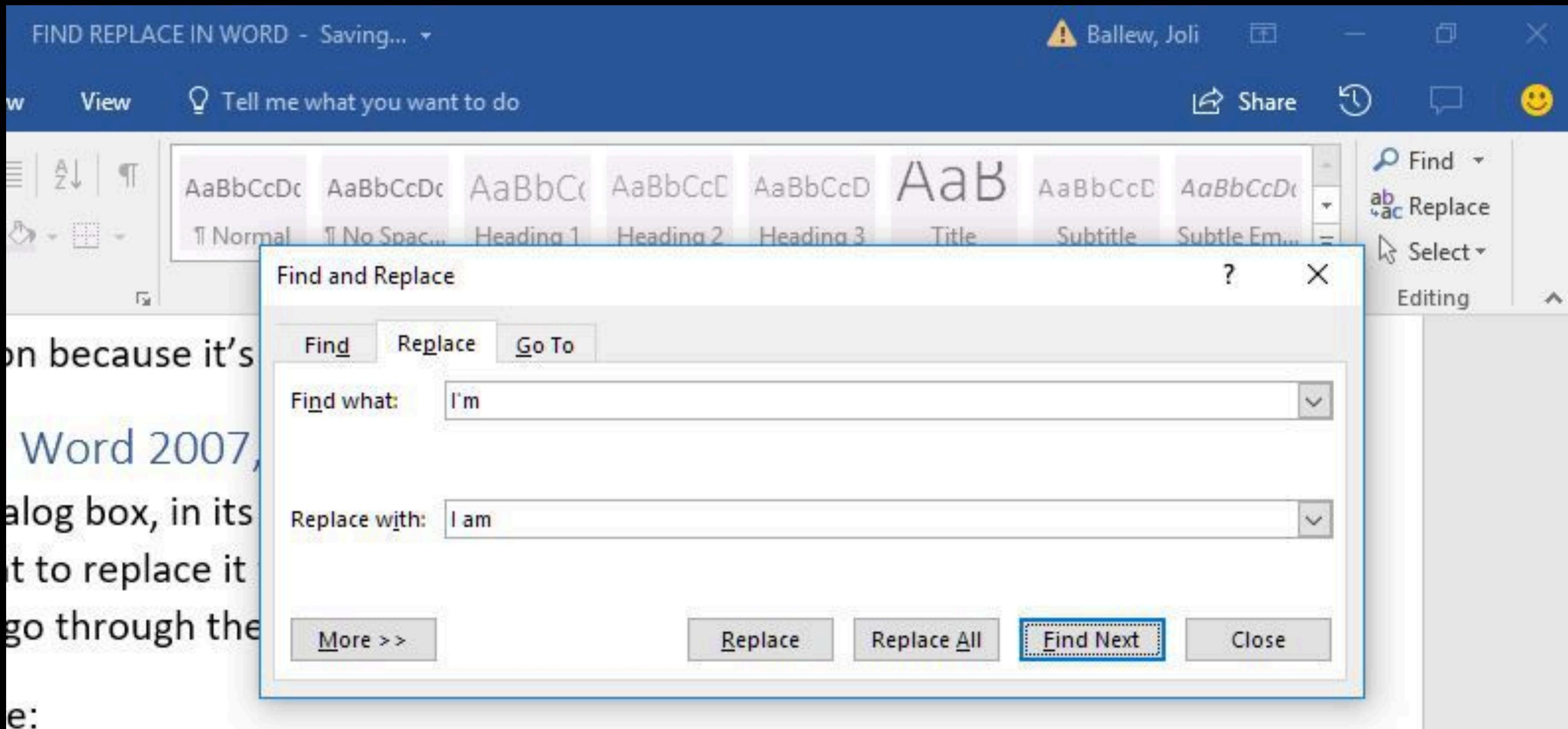
Web Page (*.htm, *.html)

Web Page, Filtered (*.htm, *.html)

Sunsetting Python 2 "2to3"

How to go about translating a language?

Can we do direct manipulation?



Find and Replace: const -> var

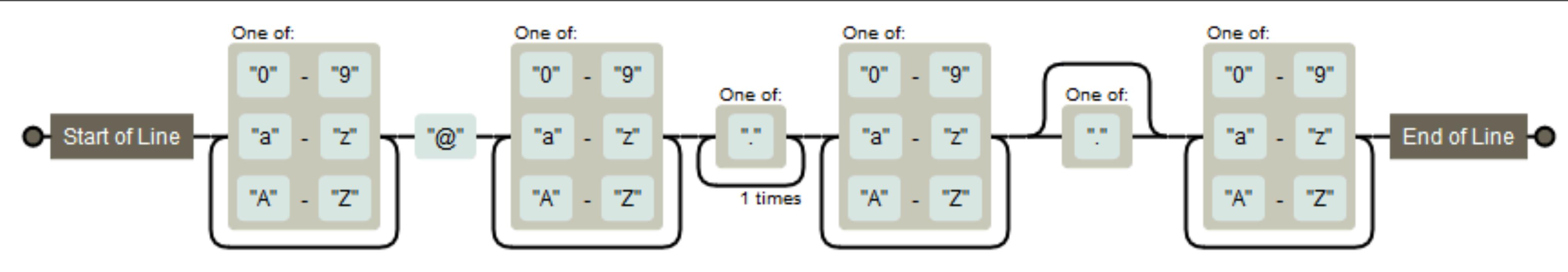
REGEXPER

You thought you only had two problems...

Fork me on GitHub

/^[\d\w-zA-Z]+@[^\d\w-zA-Z]+\.\{1\}[\d\w-zA-Z]+\.\{1\}?\d\w-zA-Z]+\$/

Display



Created by Jeff Avallone | [\(cc\) BY-NC-SA](#)

Regular Expressions

Input -> Compiler -> Output

What are the differences between
a, "a", //a

What do tools have in common?

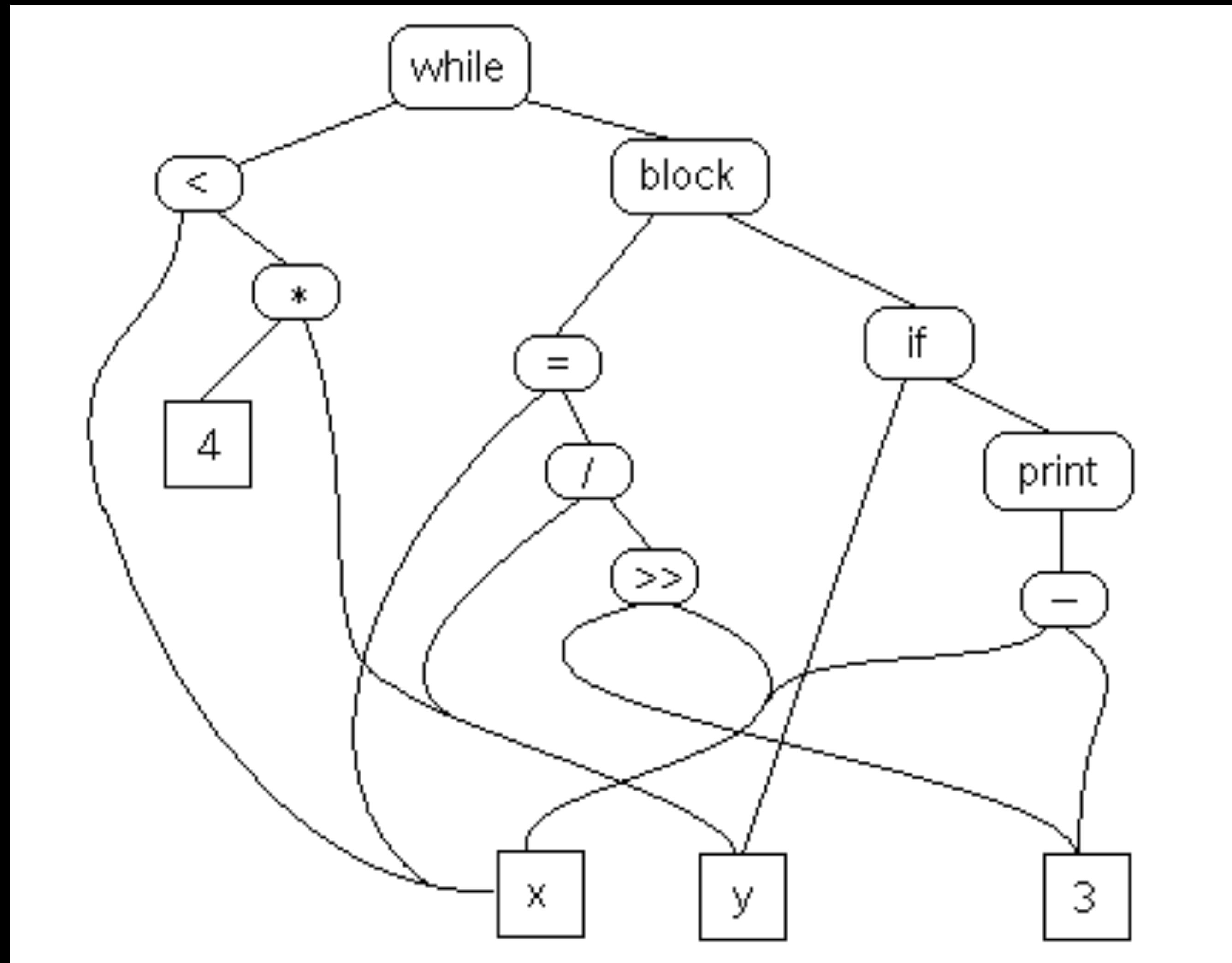
Compiler (Babel, TS)

Bundler (Webpack, Rollup)

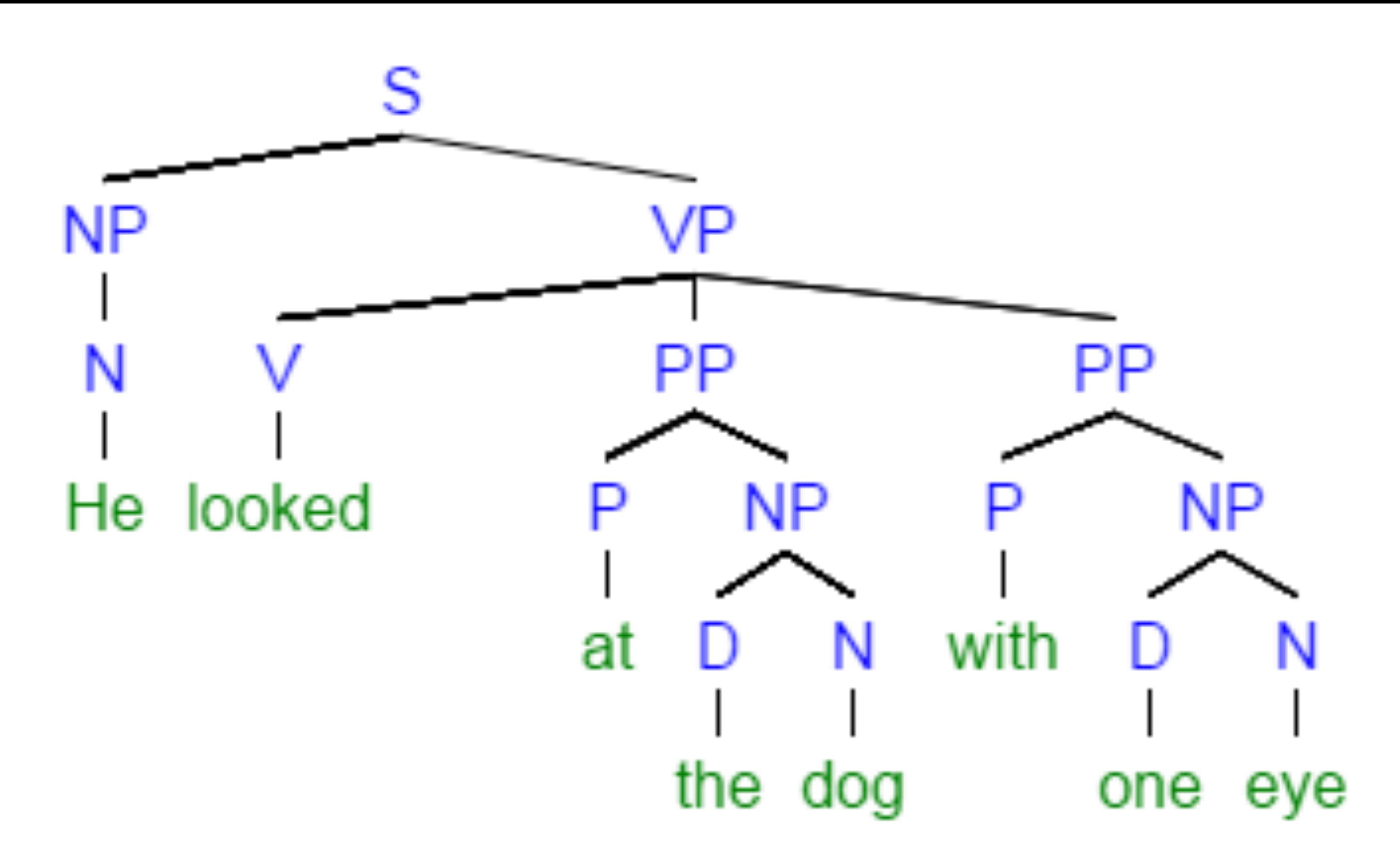
Minifier (Uglify)

Formatter (Prettier)

etc



Intermediate Representation (IR)



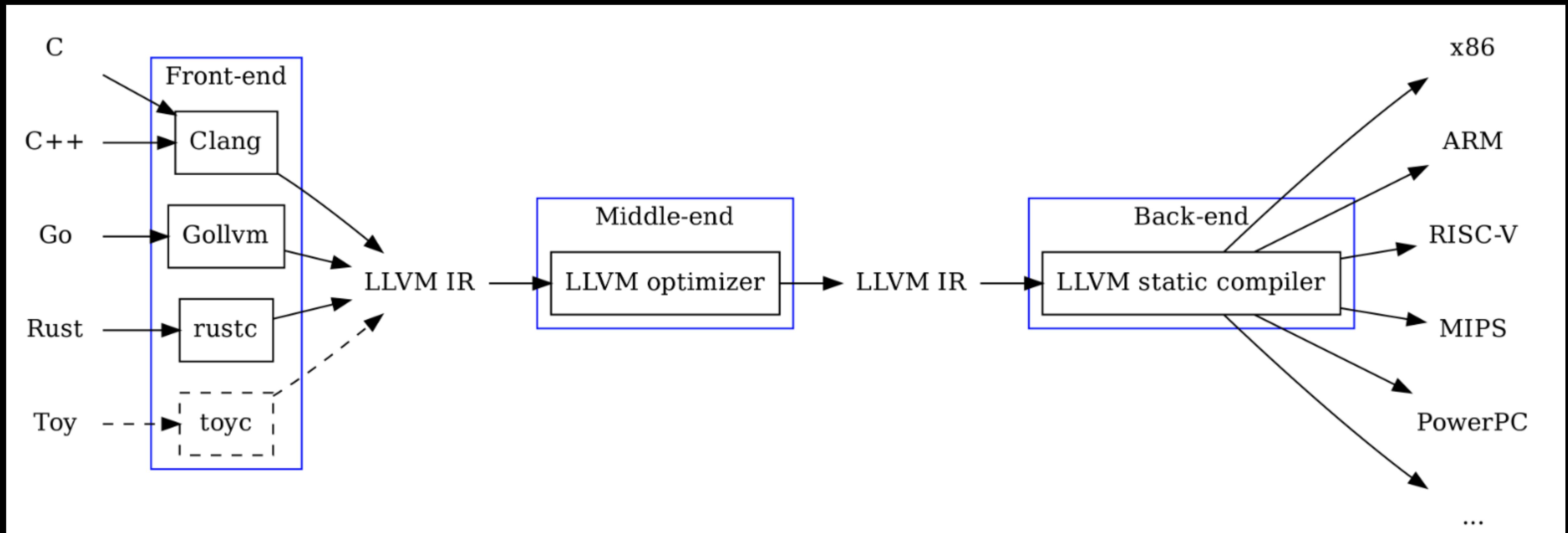
Parse Tree

Compiler Overview

Parser:
Code -> AST

Transformer(s):
AST -> AST
(Plugins/Presets)

Generator:
AST -> Code



LLVM



WebAssembly

C input source	Linear assembly bytecode (intermediate representation)	Wasm binary encoding (hexadecimal bytes)
<pre>int factorial(int n) { if (n == 0) return 1; else return n * factorial(n-1); }</pre>	<pre>get_local 0 i64.eqz if (result i64) i64.const 1 else get_local 0 get_local 0 i64.const 1 i64.sub call 0 i64.mul end</pre>	20 00 50 04 7E 42 01 05 20 00 20 00 42 01 7D 10 00 7E 0B

The WebAssembly text format can also be written in a folded format using [s-expressions](#). This format is purely syntactic sugar and has no behavioral differences with the linear format.^[58] An example is shown below:

```
(module
  (import "math" "exp" (func $exp (param f64) (result f64)))
  (func (export "doubleExp") (param $0 f64) (result f64)
    (f64.mul
      (call $exp
        (get_local $0)
      )
      (f64.const 2)
    )
  )
)
```

babel-preset-php

PHP7 to ES7 syntax translator

This project transpiles PHP source code to readable JavaScript source code.

The conversion is implemented as an AST to AST translation (with source maps!). Produced code will have valid JavaScript syntax, but may not work quite the same way due to many conceptual differences between the languages.

PHP input →

```
define('FOO', max(floatval($c), strlen("foo")));
$bar['x'][][$b] = json_encode(__FILE__);
class Foo extends Bar\Baz {
    var $z = "hello" . "world";
    function __construct($some = array(7)) {
        parent::__construct(func_get_args());
        self::${$k} = "{$this->z[10]}";
    }
}
```

→ generated JS

```
const FOO = Math.max(+c, "foo".length);
bar.x.push({[b]: JSON.stringify(__filename)});
class Foo extends Bar.Baz {
    constructor(some = [7]) {
        super(arguments);
        this.z = "hello" + "world";
        this.constructor[k] = `.${this.z[10]}`;
    }
}
```

Programming as Theory Building

The death of a program happens when the programmer **team possessing its theory is dissolved**. A dead program may continue to be used for execution in a computer and to produce useful results. The actual state of death becomes visible when demands for modifications of the program cannot be intelligently answered.

Revival of a program is the **rebuilding** of its theory by a new programmer team.

What does maintenance entail?

Insight, tacit knowledge



The Backwards Brain Bicycle - Smarter Every Day 133 ...

YouTube · SmarterEveryDay

Availability

 Notifications

 Watching

Unread

979

Participating

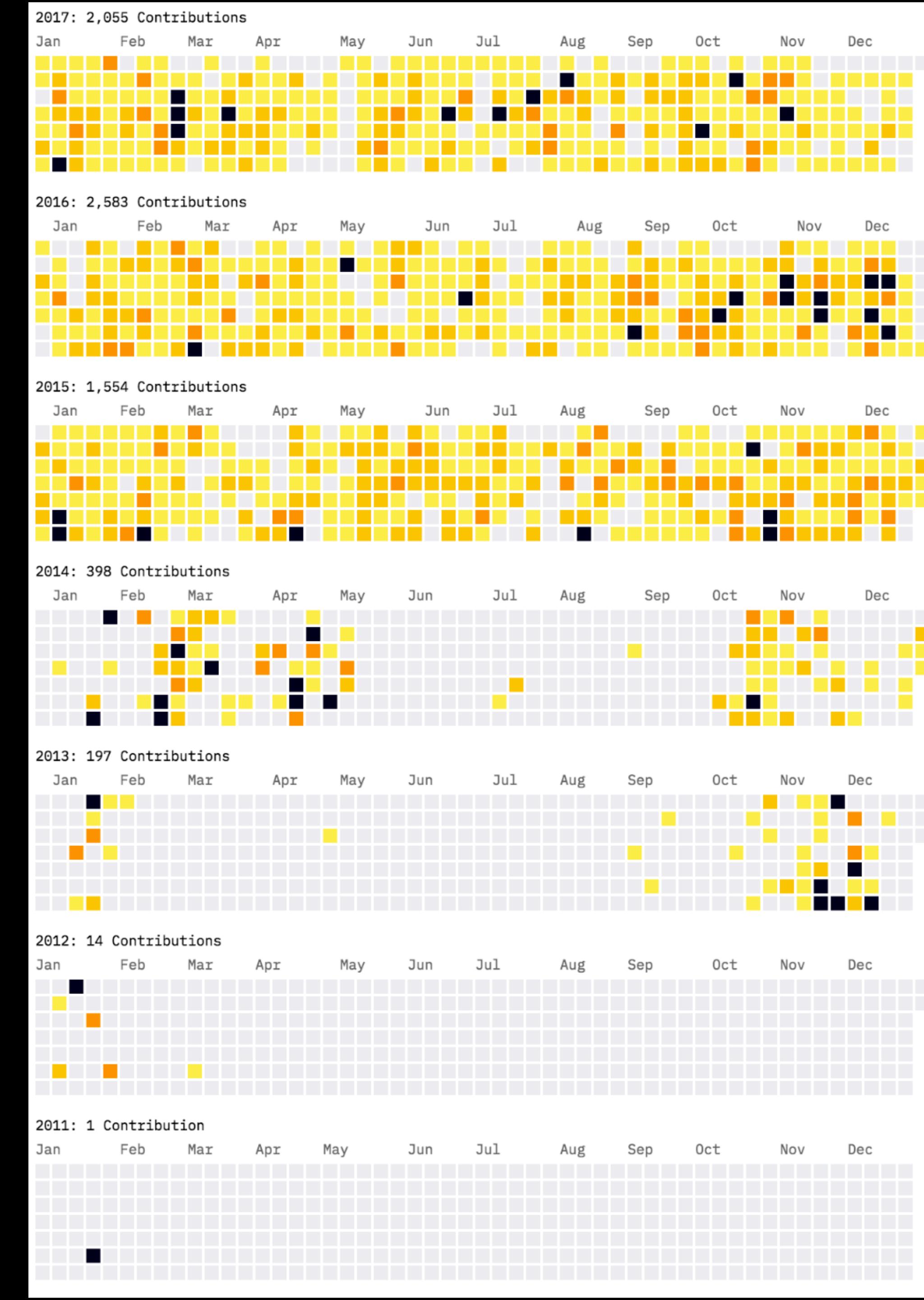
148

All notifications

babel/babel

759

Overwork



Other people

"very unfortunate that this actually trivial change is not being implemented"

"almost year, the problem still exists. WTF?"

"WHAT IS WRONG WITH YOU PEOPLE? DO YOU EVER WRITE DOCUMENTATION FOR YOUR CODE? THIS IS UTTERLY RIDICULOUS"

Showing grace

I just wanted to say sorry for my rude language and aggressive communication in the Babel repository regarding the JSDoc issue. I understand that it's an Open Source project and I should not have conducted myself that way. The work that people involved in the project have done is outstanding and deserves respect.



Henry Zhu

@left_pad



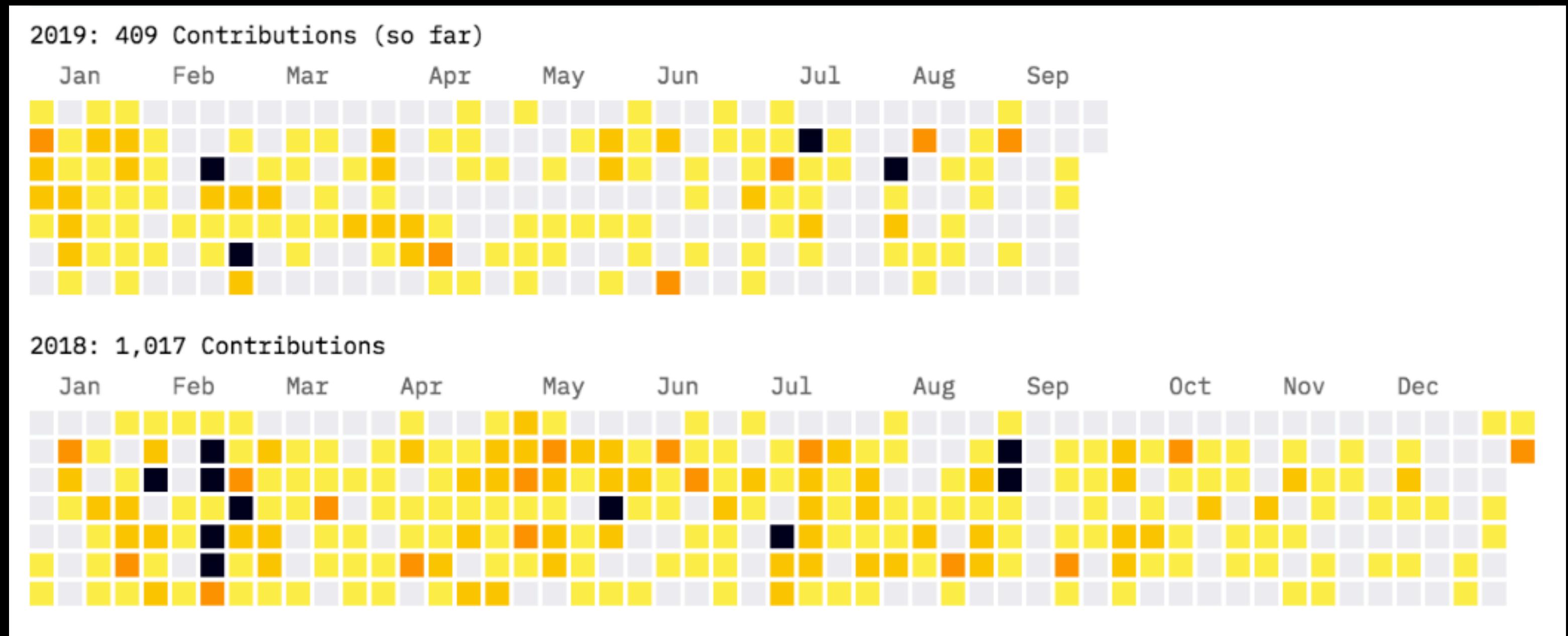
Amazing thing about open source guilt is that it can be mostly self-imposed. Don't owe anything to anyone yet I choose* to take on (unintentionally at first) responsibility which can easily lead to burden/anxiety due to a lot: no boundaries, proving self-worth, pride. it's hard 😊

8:08 PM - 2 Feb 2019

increment.com



Things can
change



Encouragement



Heather Parry

@HeatherParryUK

Follow

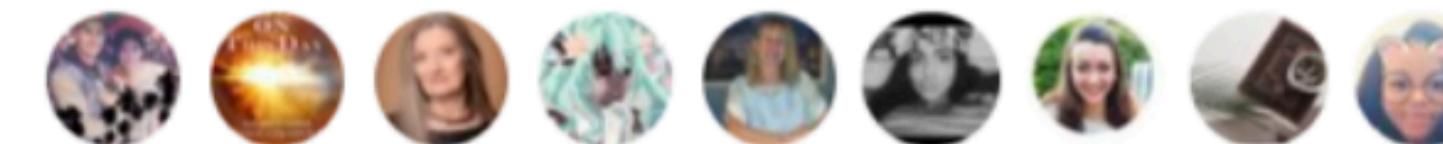


Yesterday I emailed a writer to tell her I'd
adored her book
Her reply said she'd needed to hear that

Tell people when you love their work

4:26 AM - 8 Sep 2017

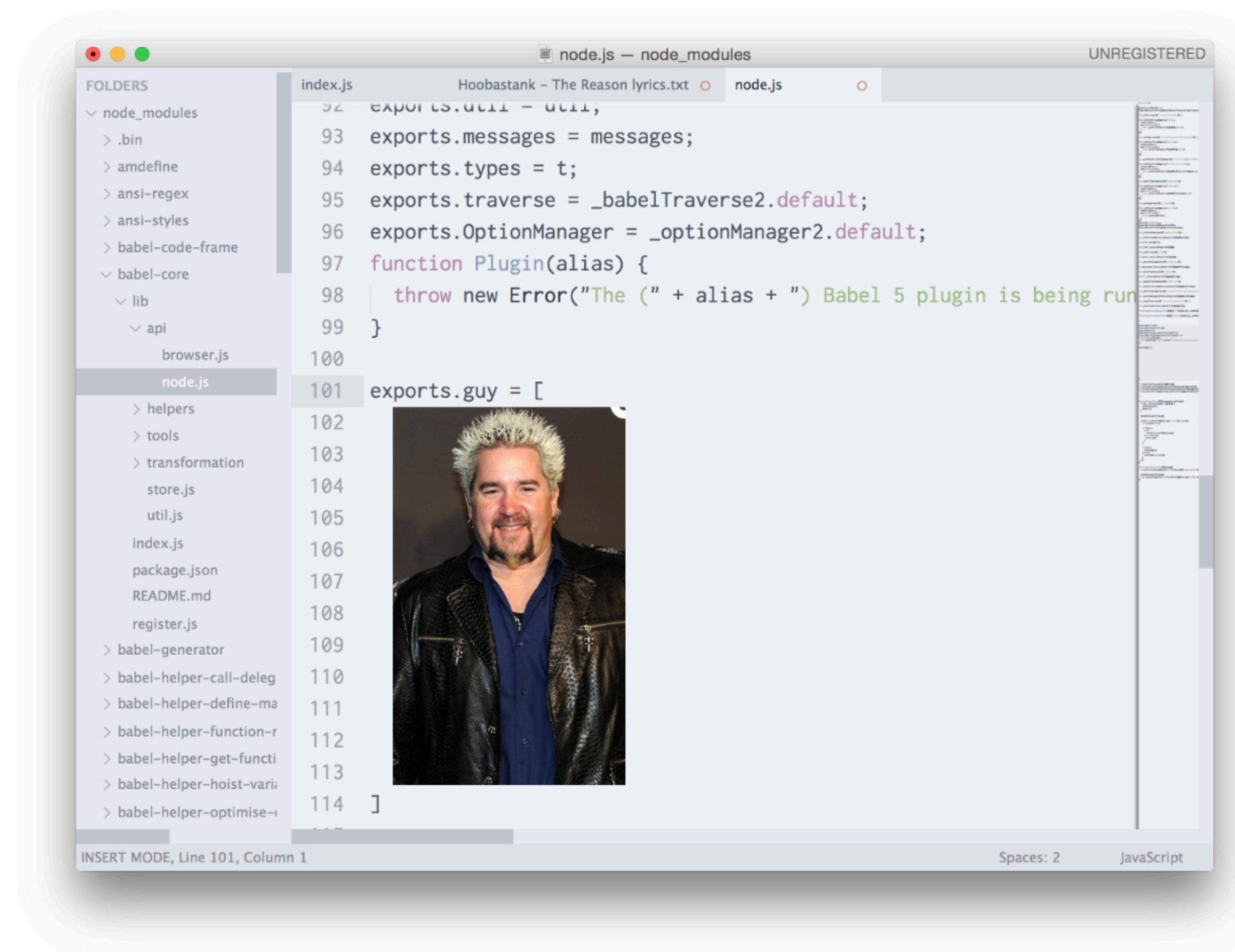
19,818 Retweets 69,717 Likes



"I think we delight to praise what we enjoy
because the praise not merely expresses
but completes the enjoyment;
it is its appointed consummation"

-C.S. Lewis

and discovered the crux of the issue. A coding slip-up so unforgivable that I nearly threw out my MacBook and swore off web development forever.

A screenshot of a code editor window titled "node.js — node_modules". The left sidebar shows a file tree with "node_modules" expanded, showing subfolders like ".bin", "amdefine", "ansi-regex", "ansi-styles", "babel-code-frame", "babel-core", "lib", and "api". Inside "api", "node.js" is selected. The main editor area displays a portion of a JavaScript file:

```
92 exports.util = util;
93 exports.messages = messages;
94 exports.types = t;
95 exports.traverse = _babelTraverse2.default;
96 exports.OptionManager = _optionManager2.default;
97 function Plugin(alias) {
98   throw new Error("The (" + alias + ") Babel 5 plugin is being run
99 }
100
101 exports.guy = [
102   103   104   105   106   107   108   109   110   111   112   113   114 ]
```

Instead of the expected code, there is a small thumbnail image of Guy Fieri's face. The status bar at the bottom indicates "INSERT MODE, Line 101, Column 1", "Spaces: 2", and "JavaScript".

Screenshot by the writer

It's true. Each installation of Babel includes a picture of Guy Fieri, and there is nothing you can do about it.



 kittens (Sebastian McKenzie) on Aug 8, 2016 ◊ Member ...

TAKE ME TO FLAVOUR TOWN. MERGED VIA [033681a](#).

 1   1   13                 1   1 

 kittens (Sebastian McKenzie) closed this on Aug 8, 2016



Mariko Kosaka @kosamari · 12 Dec 2016

@left_pad 🎅 it !



5

11

82

Sweaterify

Turn an image into a sweater. Made with ❤ by [@kosamari](#)

Looking for the Ugly Browser Christmas pattern? [Download wallpapers](#), or order a [Sweatshirt/Tshirt...](#) or make one yourself!

Upload an image

Drag red rectangle to change position



Holiday

Halftone

Poster

• Number of Repeat 1

• Invert image colors

• Yarn Type

bulkey super fine

• Image Adjustment

dark bright

• Color Settings

arm & neck background color

323330

F8DB4E

A8B038

B15E0A

reset colors



Download
Sweater PNG

Download
Pattern CSV

Download as
Wallpaper



Mariko Kosaka

@kosamari

Following



Beautiful 😂 @left_pad @jdan



7:40 PM - 11 Jan 2017

Creativity and Fun



Angus Croll

flâneur

Dec 6, 2017 · 3 min read

Hallelujah—In Praise of Babel

with apologies to Leonard Cohen

Update 1: Now available in [audio](#) courtesy of the brilliant [Shawn Wang](#)

Update 2: This is now the [official song of Babel.js!](#)

I heard there was a clever trick

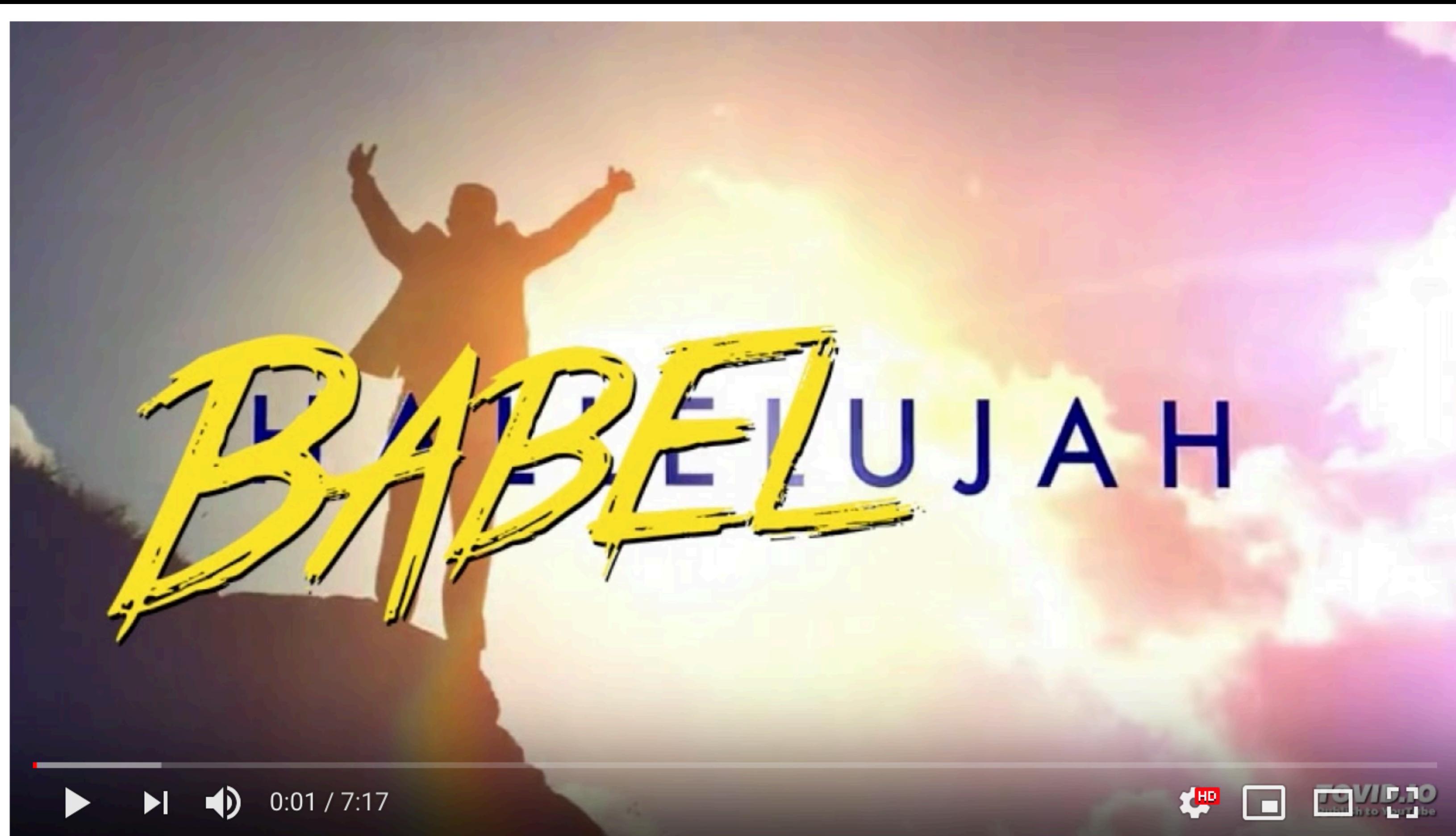
That rewrote all your JavaScript

But you don't really care for magic, do you

Well it goes like this: the source, the dist

The ES five, the ES six

The sacred script transforming Hallelujah



Hallelujah—In Praise of Babel (Fan recording)

5,136 views

266

0

SHARE

SAVE

...

S

shawn swyx wang

Published on Dec 7, 2017

SUBSCRIBE 14

Inspired by <https://medium.com/@angustweets/halle...>

Tree: df64934415 ▾

v7.0.0-rc.1

babel / SONG.md

Find file

Copy path



hzoo Add Babel's song: Hallelujah (thanks to Angus) [skip ci]

df64934 on Dec 7, 2017

1 contributor

68 lines (52 sloc) | 1.94 KB

Raw

Blame

History



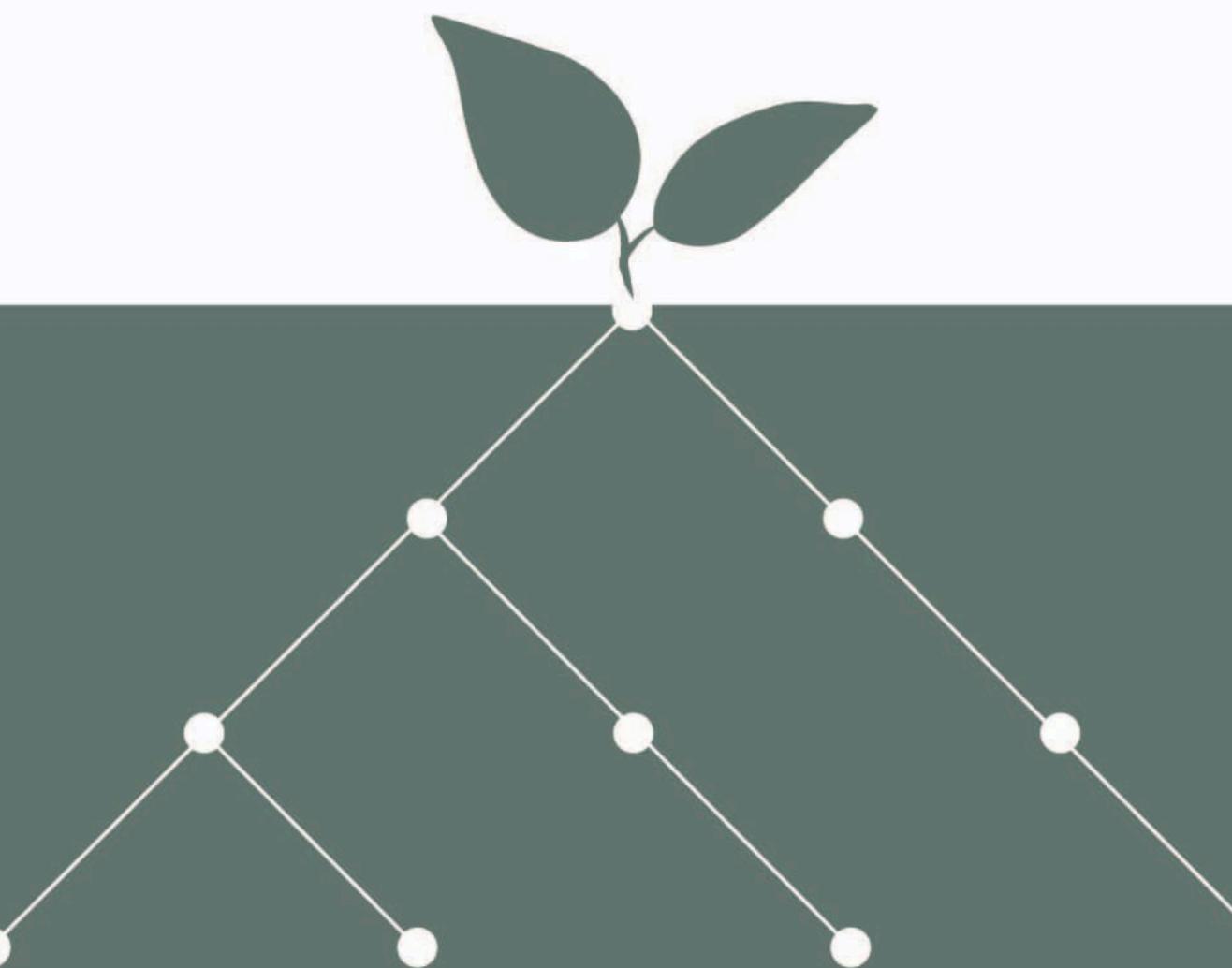
Hallelujah—In Praise of Babel

I heard there was a clever trick
That rewrote all your JavaScript
But you don't really care for magic, do you
Well it goes like this: the source, the dist
The ES five, the ES six
The sacred script transforming Hallelujah

Hallelujah, Hallelujah
Hallelujah, Hallelujah

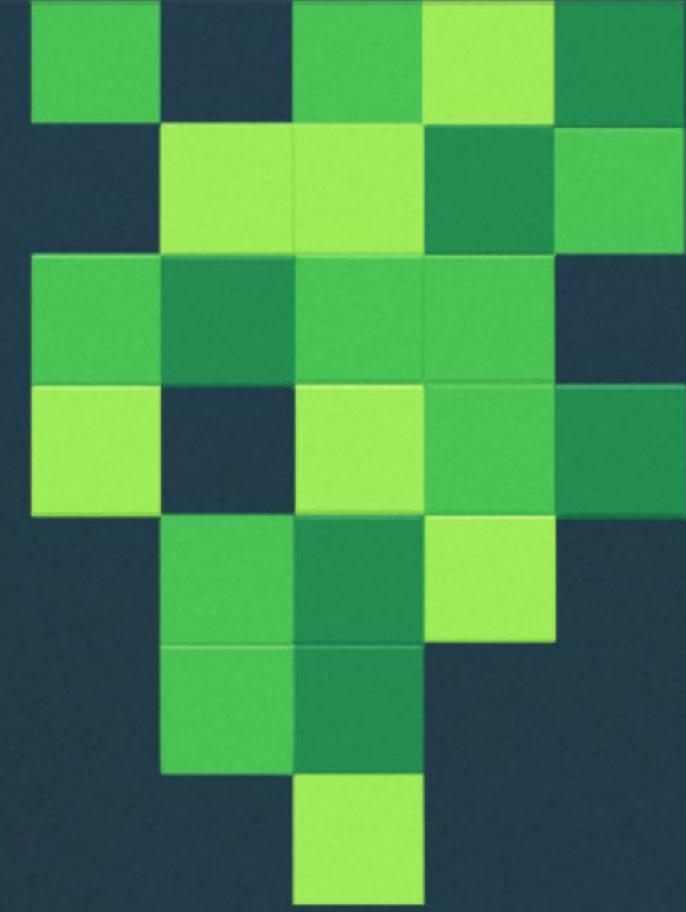
Why podcasting?

0111110111	0000	00		10	1101	1000110101	
01001001	1111	110	1	1	100	0010	10010101
111101	11101	111	11	01	100	10010	001101
1001	001000	110	110	100	101	111100	1001
01	001011	100	0001	0010	011	010010	01
1	100100	1110	01011	10010	1001	100011	1



<Hope in> Source

A podcast about faith and open source



MAINTAINERS
ANONYMOUS



GOVERNING the COMMONS



ELINOR OSTROM

The Evolution of Institutions
for Collective Action



Political Economy
of Institutions and Decisions

THE DEATH AND LIFE OF GREAT AMERICAN CITIES

JANE JACOBS

"Perhaps the most influential single work in
the history of town planning...a work of literature."
—The New York Times Book Review

PERSONAL KNOWLEDGE

Towards a Post-Critical Philosophy

MICHAEL POLANYI

ENLARGED EDITION
with a New Foreword by
MARY JO NYE



"For though I am free from all, I have made myself a servant to all, that I might win more of them" - 1 Corinthians 9:19

<https://henryzoo.com>

<https://github.com/users/hzoo/sponsorship>

<https://opencollective.com/babel>