

Lightening Talk | Frontend Conference Fukuoka 2018

RAILS GIRLS SUMMER OF CODE 3 MONTHS JOURNEY OF CONTRIBUTING TO BABEL.JS

Sujin Lee [@sujinleeme](https://twitter.com/sujinleeme)

RAILS GIRLS SUMMER OF CODE (#RGSOC)

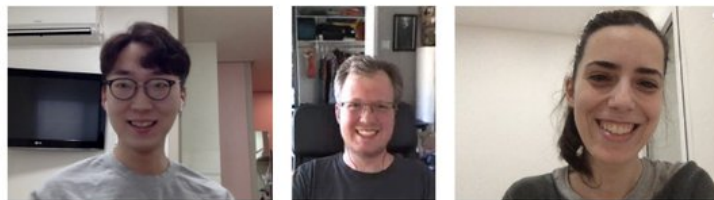
- Award-winning global fellowship program aimed at bringing more diversity into Open Source. (only 11% of OSS contributors identify as women)
- Contribute to an overall of 67 Open Source projects such as Babel, Bundler, Rails, Discourse, Tessel, NextCloud and more.
- Make a team with OSS maintainers/mentors, RGSOC supervisor local coaches and students working together.
- Get more info from <https://railsgirlssummerofcode.org/>



Sujin Lee 🧑
@sujinleeme



☀️ #RGSoc #RGSoc2018@AnaSofiaPinho made a
#RGSocSunshine team collage! ❤️
We are working on #OpenSource Project @babeljs. 💪



♡ 26 1:18 AM - Jul 20, 2018 · Yongsan-gu, Republic of Korea



👤 See Sujin Lee 🧑's other Tweets



TEAM SUNSHINE ☀️

More Read: <https://sujinlee.me/rgsoc-prologue/>

- Members : [Gyujin Cho](#), [Sujin Lee](#)
- Supervisor : [Ana Sofia Pinho](#)
- Mentors : [Henry Zhu](#), [Brian Ng](#), [Logan Smyth](#)
- Local Coaches : [Byungjune Yoon](#), [Hyeonsu Lee](#), [Seongjun Kim](#), [Dohyung Ahn](#)

WHAT IS

BABEL

<https://babeljs.io/>

"A JavaScript compiler a toolchain that is mainly used to convert ES 2015+ code into a backwards compatible version of JavaScript in current and older browsers or environments". - Babel Website

"A compiler, an open source project community, part of the JavaScript community." - Henry Zhu



Jed Schmidt @jedschmidt · May 17, 2017



Replying to @dan_abramov

it's reassuring that @left_pad saw it coming. henryzoo.com/babel-plugin-s...



Kent C. Dodds

@kentcdodds

Love that slide. I just had a thought though. It's probably more like:

Babel : JavaScript :: jQuery : HTML

Or

Babel : AST :: jQuery : DOM

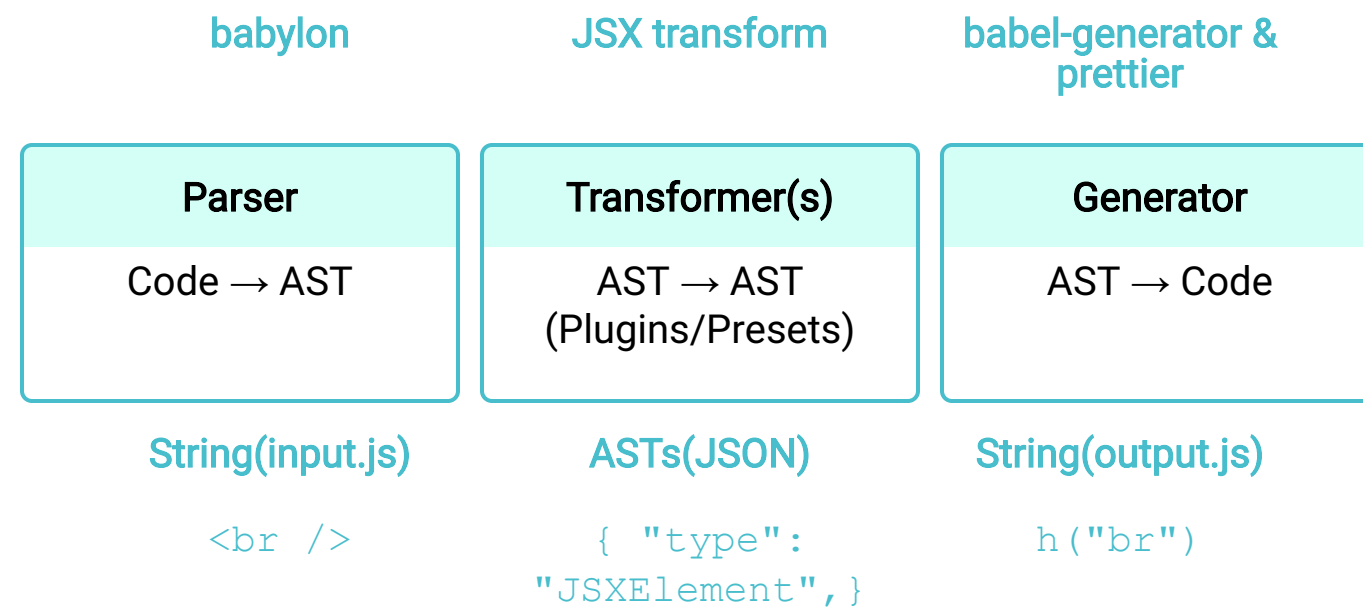
♥ 2 3:58 AM - May 17, 2017



[See Kent C. Dodds's other Tweets](#)



BABEL AS A COMPILER



More Info

- Diagram - A excerpt from Henry Zhu's Keynote ['So how does babel even work'](#)
- [Henry Zhu - So how does Babel even work?](#)
- [Babel Handbook](#)

WHAT'S GOOD FOR BABEL CONTRIBUTION?

- A open-sourced JavaScript compiler that tech leading companies and countless others adopt to ship software for the web.
- A great position to be an educational tool for programmers so they can continue to learn how JavaScript works.
- The warmth of welcome to Babel open source community.
- Learn many other concepts such as ASTs, compilers, language specification, and more.

 **HOW TO START CONTRIBUTION?**

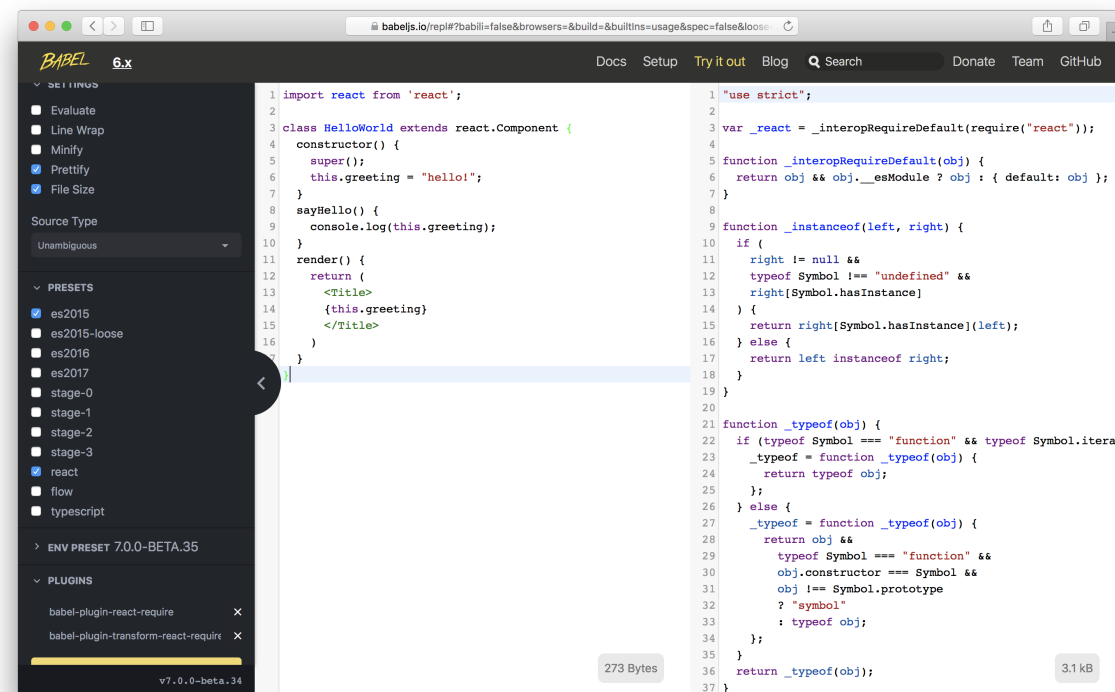


READ BABEL ROAD MAP

- Hook into [CodeSandBox](#)
- [Better Debuggability](#)
- [Better REPL](#)
- [ASTExplorer](#)
- [Compiled Output Stats](#)

REPL, 'A PLAYGROUND FOR BABEL'

<https://babeljs.io/repl>



- Integrated in the official documentation website built with [Docusaurus](#)
- Using pure react.js(flow) : <https://github.com/babel/website/tree/master/js/repl>

OUR WORKS FOR REPL

- Show a different view of complied code: AST, output code, and time travel.
- Learning existing codebase of references: [ASTExplorer](#), [Redux Devtools](#), [CodeSandbox](#) and JSON tree view libraries.
- Some UI Improvements

BABEL-TIME-TRAVEL

<https://github.com/babel/babel-time-travel>

Empower to be able to make changes, even small ones!

Babel Time Travel

☒ es2015

☐ stage-0

☐ stage-1

☐ stage-2

☐ stage-3

☒ minify

Compile

Purge

1

'use strict';var greetings='hello';

Current Plugin: [output](#), Current Visitor: [File exit](#), Size: 70 Bytes

- Time travel slides through babel transformations one by one created by [Boopathi Rajaa](#)
- Change babili to minify in available presets ([#3](#))
- Show the size in bytes of the code ([#4](#))

🎉 The first PR: Time Travel



Brian Ng
@existentialism



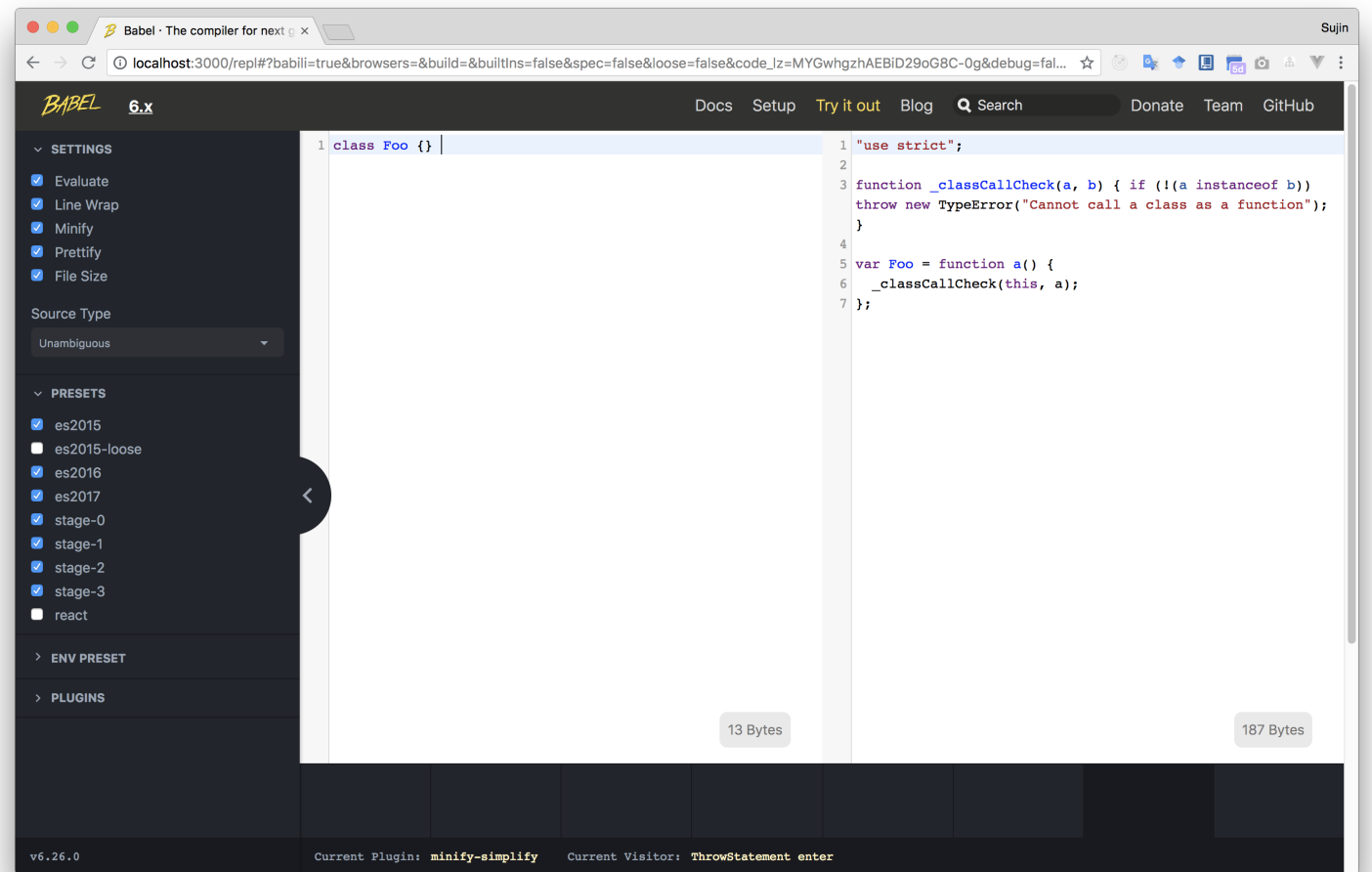
Huge props to @sujinleeme and @MarinaGJCho (our @RailsGirlsSoC team) for integrating time travel into the @babeljs repl! This is just a start, there's more awesomeness to come! [github.com/babel/website/...](https://github.com/babel/website/)



Add time travel panel in REPL by sujinleem...
edit by @hzoo, test here: <https://deploy-preview-1736--babel.netlify.com/repl> Hello, We are the team 🌞 sunshine (@gyujincho) on RGSoc 2018.
github.com

11 5:30 AM - Aug 22, 2018

[See Brian Ng's other Tweets](#)



Now, AST Panel is ready to merge!

integrate [ASTExplorer](#) into Repl

<https://github.com/sujinleeme/babel-website/blob/ASTOptions/js/repl/ASTPanel.js>



Felix Kling @fkling42 · Sep 12, 2018



Small update about [astexplorer.com](#) : Tree view now scrolls horizontally so nested nodes are easier to inspect; updated babel-eslint to v9; updated [@babeljs](#) transformer (and parser) to v7. I'm working on making the deployment and update process more automatic.



Henry
@left_pad



nice! [@sujinleeme](#) and [@MarinaGJCho](#) landed a PR [github.com/babel/website/...](#) regarding a "time travel" mode for [@RailsGirlsSoC](#), we also wanted an AST output; would you have time to discuss implementation (or maybe if we could extract it as a component, would be great to re-use)?



Add time travel panel in REPL by sujinleem...

edit by @hzoo, test here: <https://deploy-preview-1736--babel.netlify.com/repl> Hello, We are the team 🌞 sunshine (@gyujincho) on RGSoc 2018. [github.com](#)

♥ 8 9:37 PM - Sep 12, 2018



[See Henry's other Tweets](#)



Code reviews by local coaches

<http://github.com/sujinleeme/babel-website/pull/1>



benevbright reviewed on Oct 6

[View changes](#)

js/repl/ASTUtils.js

```
13 + opts = opts || {};  
14 +  
15 + const delimiter = opts.delimiter || ".";  
16 + const maxDepth = opts.maxDepth;
```



benevbright on Oct 6

Collaborator

need a default value.



Reply...

Resolve conversation



benevbright reviewed on Oct 6

[View changes](#)

js/repl/ASTPanel.js

```
21 + src: Object,  
22 + flattenSrc: Object,  
23 + flattenType: Object,  
24 + astOption: {
```



benevbright on Oct 6 • edited ▾

Collaborator

astOptions would be better name.

One challenge: A team from 6 different time zones



Sujin Lee 🧑

@sujinleeme



☀️ #RGSoC2018 #RGSoCSunshine DAY8 @MarinaGJCho @sujinleeme


✅ We had two 📞; with @AnaSofiaPinho, and @existentialism

@left_pad @Compulves

✅ Checked Sandpack PR to REPL

✅ Ready to review code of current babel-time-travel


👉 Read More? bit.ly/2udKg2i



♥️ 8 12:24 PM - Jul 12, 2018




 See Sujin Lee 🧑's other Tweets



THEN, HOW TO GET INVOLVED IN OSS?

巨人の肩の上にのる

If I have seen further, it is by standing upon the shoulders of giants. - Isaac Newton

 More Info

- [How to contribute Open Source](#)

ありがとうございました

Lightening Talk | Frontend Conference Fukuoka 2018

Sujin Lee [@sujinleeme](#)