



fe - bounded
All the things¹

¹ Hyperbole and a Half - This is Why I'll Never be an Adult

Hi! 

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Twitter - GitHub



*I've heard from several people
that they've consolidated their
companies tool dependencies
into a single package and this
worked really well for them.*

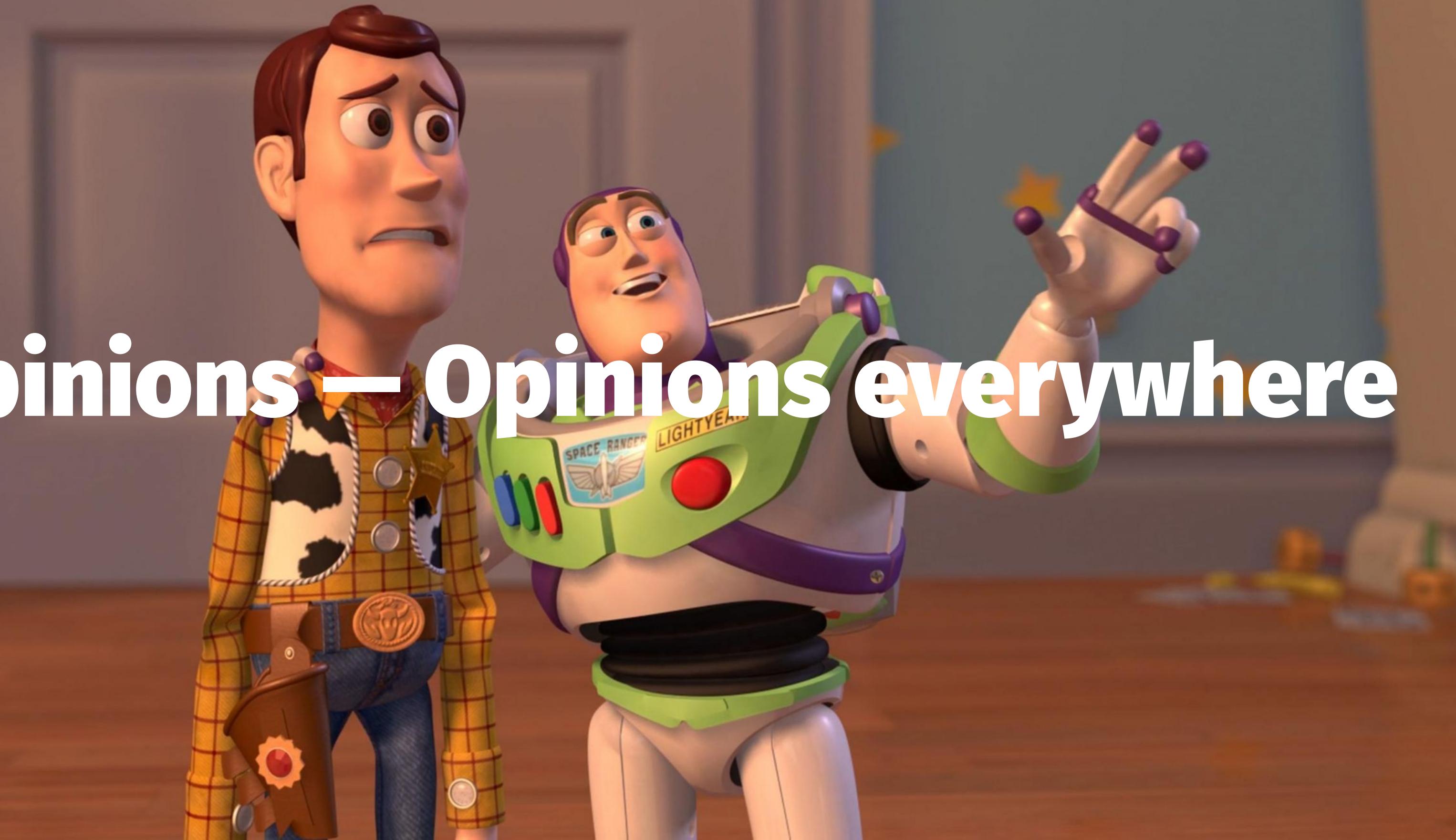
– @dan_abramov



One Tool to rule them all

but why?

Opinions – Opinions everywhere



opinions

- enforce consistency
- while encouraging communication
- cure javascript fatigue 

measure twice, cut once

- developer experience
- centralise bug fixes and new features
- skill transfer between teams

```
{  
  "scripts": {  
    "start": "npm run watch",  
    "start:prod": "yarn run generate:slugmap && node -r dotenv-safe/config lib/index.js",  
    "start:https": "nginx -c $(./nginx/inject-env < nginx/local.conf) & yarn start",  
    "version": "version-changelog CHANGELOG.md && changelog-verify CHANGELOG.md && git add CHANGELOG.md",  
    "watch": "cross-env NODE_ENV=development nodemon --ignore src/views/client/ -w .env -w src -x node --inspect -r dotenv-safe/config -r babel-core/register src/index.js",  
    "debug:webstorm": "cross-env NODE_ENV=development nodemon $NODE_DEBUG_OPTION --ignore src/views/client/ -w .env -w src -x node -r dotenv-safe/config -r babel-core/register src/index.js",  
    "watch:search-results": "cd src/views/client/search-results && fe-build watch",  
    "watch:error-page": "cd src/views/client/error-page && fe-build watch",  
    "watch:docker": "yarn run watch -- -L",  
    "docker:start": "docker-compose up",  
    "docker:stop": "docker-compose down",  
    "docker:build": "yarn run start:docker -- --build",  
    "test:watch": "nodemon -w src -w test -x 'yarn test'",  
    "tdd": "mocha --watch --recursive test/unit",  
    "test": "npm-run-all --print-label --parallel test:unit test:integration flow lint",  
    "test:unit": "nyc mocha --recursive test/unit",  
    "pretest:integration": "yarn run bundle",  
    "test:integration": "mocha --timeout 5000 --recursive test/integration*",  
    "test:e2e": "fe-e2e-tests -c test/e2e/nightwatch.conf.js -h /phoenix/api/ping -e mobile,tablet,chrome",  
    "test:e2e-browserstack": "fe-e2e-tests -c test/e2e/nightwatch.conf.js -h /phoenix/api/ping -e chrome,firefox,ie,mobile,tablet --browserstack",  
    "test:e2e-browserstack-prod": "fe-e2e-tests -c test/e2e/nightwatch.conf.js -h /phoenix/api/ping -e chrome,mobile --browserstack",  
    "test:e2e-concurrently": "test/e2e/concurrent-run.sh",  
    "test:e2e-concurrently-prod": "E2E_PROD_TEST=true test/e2e/concurrent-run.sh",  
    "test:perf:report": "fe-perf-tests --shape=test/perf/report-shape.json --json=auto --local=/sale/pyrmont-nsw-2009/",  
    "test:perf:pretty": "fe-perf-tests --shape=test/perf/report-shape.json --json --local=/sale/pyrmont-nsw-2009/",  
    "test:perf:others": "fe-perf-tests --shape=test/perf/report-shape.json --json=auto --url=https://www.domain.com.au/sale/pyrmont-nsw-2009/",  
    "lint": "eslint src test",  
    "lint:fix": "eslint src test --fix",  
    "build": "babel --quiet --out-dir lib --ignore=src/views/client src --copy-files && babel --quiet --out-dir lib/views/client/search-results/src/js/shared src/views/client/search-results/src/js/shared --copy-files && npm run bundle",  
    "build:clean": "rm -rf assets/components/ src/views/client/*/* lib/ coverage/.nyc-output",  
    "bundle": "cross-env LOG_LEVEL=error node scripts/bundle.js",  
    "bundle:report": "cd src/views/client/search-results && fe-build dist:bundle --with-report",  
    "flow": "flow check",  
    "flow:stop": "flow stop",  
    "flow:coverage": "flow coverage src/*.js --color",  
    "flow-typed:update": "flow-typed update",  
    "flow-typed:install": "flow-typed install",  
    "update:source:slugmap": "cross-env SLUGMAP_URL=https://s3-ap-southeast-2.amazonaws.com/domain-location-data/production/slugmap.json yarn run generate:slugmap",  
    "generate:slugmap": "node -r dotenv-safe/config generateSlugMap.js",  
    "url-tester": "babel-node ./scripts/url-tester.js",  
    "slug-tester": "babel-node ./scripts/slug-tester.js",  
    "prune:run": "node ./scripts/yarn-prune.js",  
    "local-fe-pa": "renderizr-devserver --out=../assets/components --static-route=\"http://localhost:3000/phoenix/assets/components\" --path=../fe-pa-listing-details --theme=domain --fallback=false"  
  }  
}
```

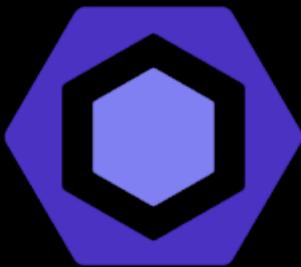


BABEL

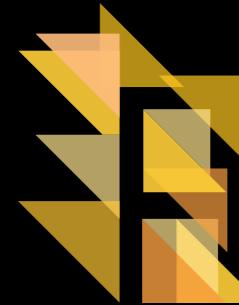


Browserify

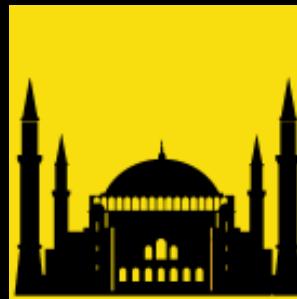
CHALK



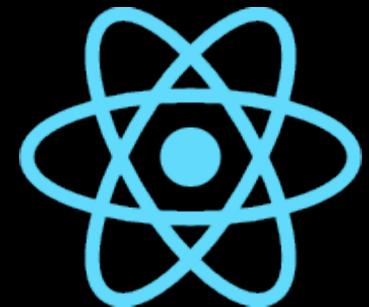
airbnb



flow



pino The Pino logo is a green triangle with a brown base.



remark

Sass



```
{  
  "scripts": {  
    "watch": "fe-build watch",  
    "build": "fe-build build",  
    "lint": "fe-build lint",  
    "test": "fe-build test",  
    "tdd": "fe-build tdd"  
  }  
}
```

build, lint, test, publish, report

hawaid

`fe-build watch`

`js - css - assets`

→ demo environment

→ simulate the real world

→ reflect changes quickly

fe-build build

- bundle and babel javascript
- copy scss and static assets
- into /lib ready to publish

fe-build/babel

→ babel-preset-react

→ babel-preset-env

→ react-hot-loader/babel

→ babel-plugin-transform-flow-strip-types

fe - c0 - demo



fe-build lint

js - css - markdown

why lint?

- consistency
- reduce developer error
- enforce opinions

opinions?

- developer consensus
- let someone else make the decision
- fe-build@beta introducing prettier


```
'react/no-array-index-key': 'error',
'react/require-default-props': 'error',
'react/forbid-foreign-prop-types': 'off',
'react/void-dom-elements-no-children': 'error',
'react/default-props-match-prop-types': ['error', { allowRequiredDefaults: false }],
'react/no-redundant-should-component-update': 'error',
'react/no-unused-state': 'error',
'react/boolean-prop-naming': ['off', {
  propTypeNames: ['bool', 'mutuallyExclusiveTrueProps'],
  rule: '^((is|has)[A-Z]([A-Za-z0-9]*?))+',
}],
'react/no-typos': 'error',
'react/jsx-curly-brace-presence': ['error', { props: 'never', children: 'never' }]
```

package.json

```
{  
  "eslintConfig": {  
    "extends": "@domain-group/eslint-config-domain/browser"  
  }  
}
```

eslint-config-domain

→ airbnb

→ prettier

→ flowtype

→ import

→ jsx-a11y

→ react

remark-preset-domain

- lint documentation
- generate table of contents
 - validate links

test

fe-build test

flow - lint - test

→ single command for ci

→ lint everything

→ run tests

→ report code coverage

test setup

DOM and polyfills

```
require('babel-register');
const { JSDOM } = require('jsdom');

const { window } = new JSDOM(
  '<!doctype html><html><body><script></script></body></html>'
);

global.window = window;
global.document = window.document;

// polyfills
require('match-media');
require('match-media/matchMedia.addListener');
require('babel-polyfill');
```

test setup

globals and assertions

```
global.React = require('react');
global.sinon = require('sinon');
global.enzyme = require('enzyme');
global.chai = require('chai');

const Adapter = require('enzyme-adapter-react-15');
global.enzyme.configure({ adapter: new Adapter() });

global.expect = global.chai.expect;

global.chai.use(require('chai-enzyme'));
global.chai.use(require('chai-as-promised'));
global.chai.use(require('chai-datetime'));
global.chai.use(require('sinon-chai'));
global.chai.use(require('dirty-chai'));
```

fe-build tdd

→ test setup

→ instant feedback

→ useful for tdd

fe-build coverage

- code coverage
- uses nyc and babel config

push

np²

- interactivly specify new semver version
- ensures you are on master and up to date
- ensures dependencies match package.json
- runs npm test, npm version, npm publish

² Sindre Sorhus - <https://github.com/sindresorhus/np>

CHANGELOG.md

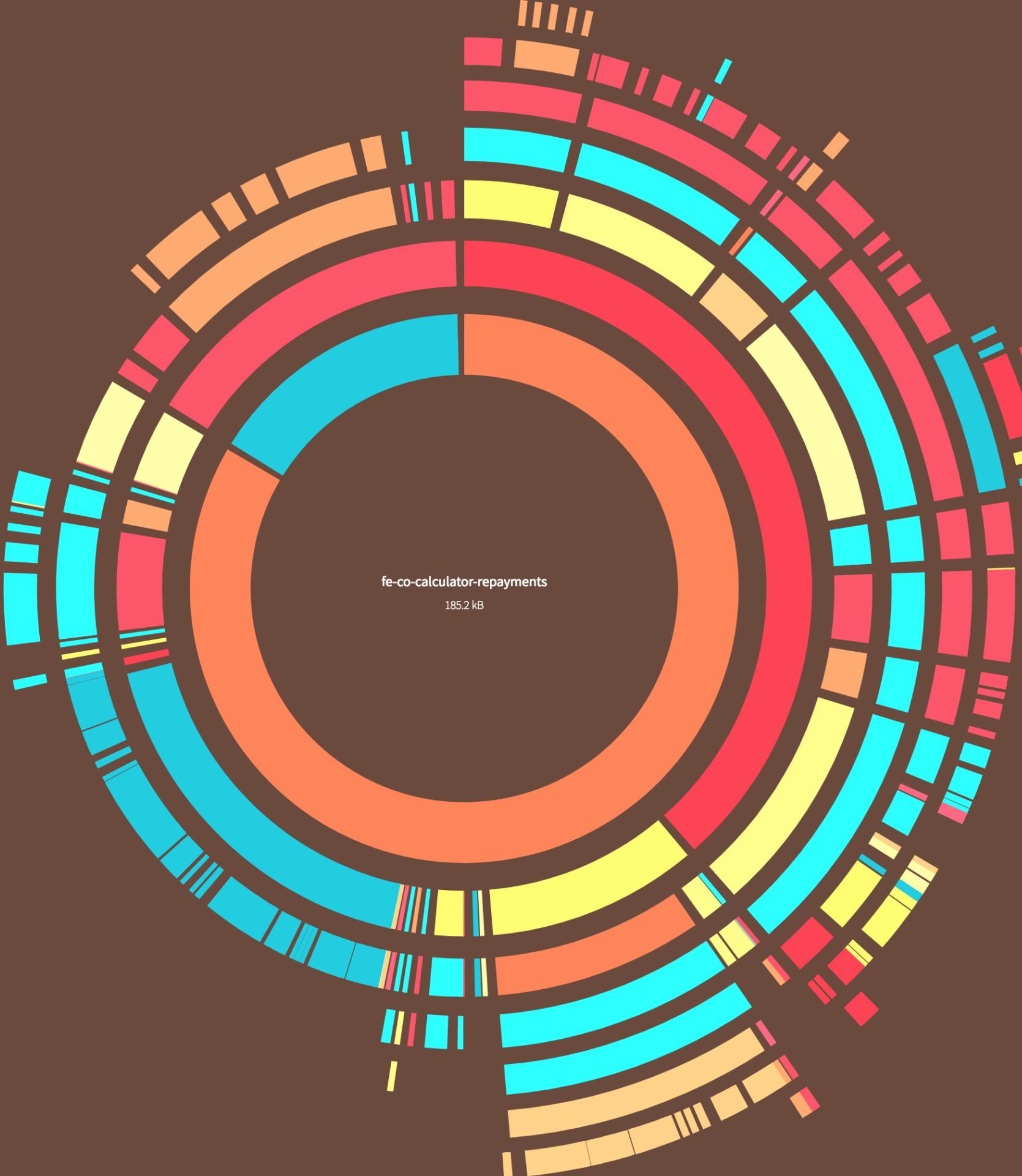
- each project keeps a changelog³
- notable changes for each version released
 - written by a human

³ <http://keepachangelog.com/>

fe-build changelog

- version the changelog
- verify a changelog entry exists
- add link to compare changes on GitHub
 - add release date

report



fe-build report:bundle

Analyse browserify bundles with
disc⁴

⁴ Hugh Kennedy - <https://github.com/hughsk/disc>

`fe-build report:bundle:size`

- report bundle sizes in pull requests
- warning for large bundle sizes

Inspiration taken from `siddharthkp/bundlesize`⁵

⁵ Siddharth Kshetrapal - <https://github.com/siddharthkp/bundlesize>



3 successful checks

[Hide all checks](#)

-  **ci/circleci: ci** — Your tests passed on CircleCI! [Details](#)
-  **fe-build/bundle-size** — fe-pa-listing-details.min.js: 279.53KB (gzip) < maxSize
1.2MB [Details](#)
-  **fe-build/verify-changelog** — changelog is up to date [Details](#)

fe-build report:dependencies

Analyse dependencies of a project with depcheck⁶

```
$ "fe-build" "report:dependencies"
13:30:51 ✨ fe-build 12.7.0
13:30:51 ✨ fe-build Starting 'report:dependencies'...
13:30:54 ⚠ fe-build 6 unused dependencies found in package.json taking up around 6.81 MB. You should uninstall these:
13:30:54 ⚠ fe-build - @domain-group/fe-co-button (584 KB)
13:30:54 ⚠ fe-build - @domain-group/fe-co-form-group-wrapper (492 KB)
13:30:54 ⚠ fe-build - @domain-group/fe-co-loader (444 KB)
13:30:54 ⚠ fe-build - @domain-group/fe-co-myd-animations (408 KB)
13:30:54 ⚠ fe-build - classnames (44 KB)
13:30:54 ⚠ fe-build - lodash (4.89 MB)
```

⁶ - <https://github.com/depcheck/depcheck>

the sharp edges



- dependency management
- breaking changes
- consensus

what next?

- mock api server
- error reporting
 - CSS-in-JS
- webpack

