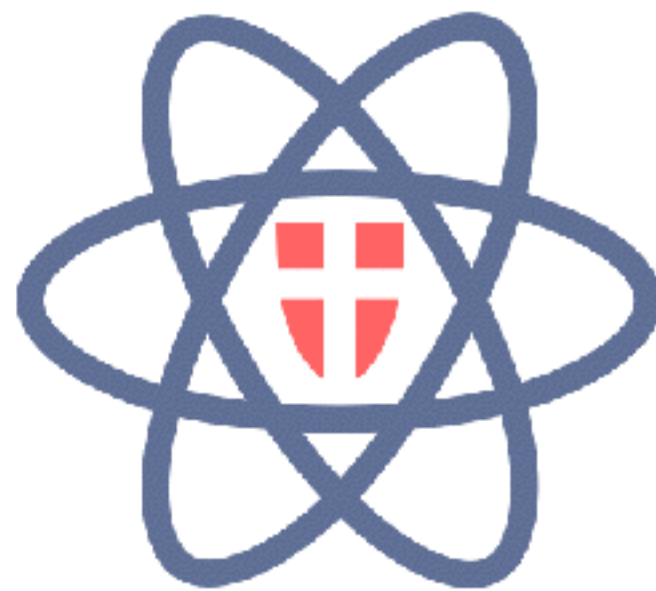


Make Linting Great Again

with   lint-staged

React



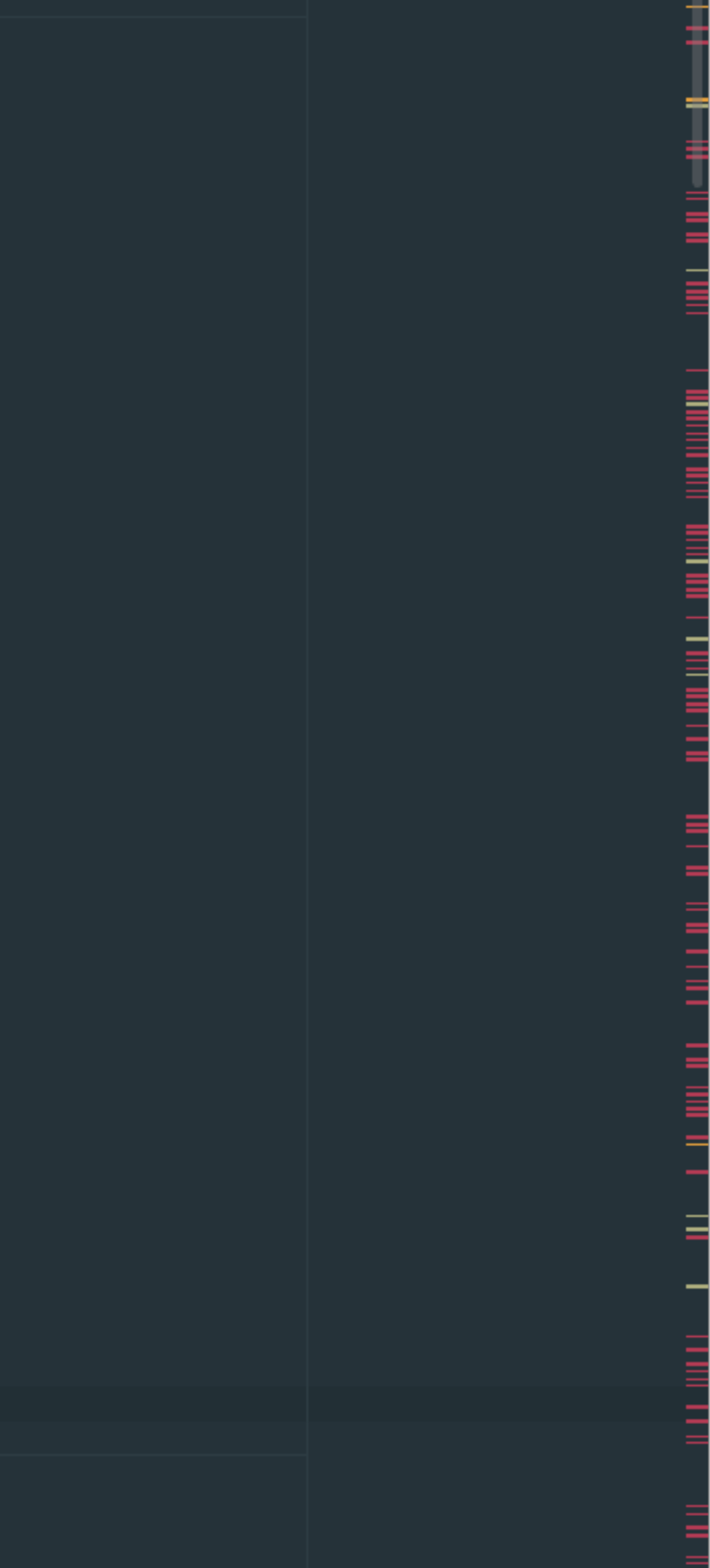
Vienna

What the `#$&%` is lint?!

“lint or a linter is any tool that flags suspicious usage in software written in any computer language.”

“linter is a tool that finds stupid bugs.”

```
reportBuilder.js x customizeChart.js x calendar-heatmap.js x
1 import {getIsoWeek} from '../utils/moment.customISO.js';
2 import {getFractionalDigitsForData} from '../utils/FractionalDigitsUtils.js';
3
4 var calendarModule = angular.module('calendarModule', []);
5
6 calendarModule.service('heatmapService', function() {
7
8     var kingdom = {}
9
10    function renderCalendarHeatmap(rendererToElementId, uiConfig, json) {
11        /* initialization */
12
13        //the next 3 values have to be adjusted to fit with cellSize.
14        //could theoretically be calculated dynamically, it's just too much of a hassle.
15        var width = 960,
16            height = 126,
17            cellSize = 17; // cell size
18
19        const fractionalDigits = getFractionalDigitsForData(uiConfig.action.data, json.kpis)[0];
20        // set weekday. Default is Monday
21        var weekday;
22        if (uiConfig.action.data.monday === false) {
23            weekday = 7;
24        } else if (uiConfig.action.data.monday) {
25            weekday = 1;
26        } else {
27            weekday = uiConfig.action.data.weekday ? uiConfig.action.data.weekday : 1;
28        }
29
30        if (uiConfig.action.data.weekday) {
31            weekday = uiConfig.action.data.weekday;
32        }
33
34        var day,
35            week,
36            percent = d3.format('.1%'),
37            format = d3.time.format('%W-%m-%d');
38
39        week = function(date) {
40            var weekFormat;
41            if (weekday === 7) {
42                weekFormat = d3.time.format('%W');
43            } else if (weekday === 1) {
44                weekFormat = d3.time.format('%W');
45            } else {
46                return getIsoWeek(date, weekday) - 1;
47            }
48
49            return weekFormat(date);
50        };
51
52        day = function(date) {
53            var weekdayFormat = d3.time.format('%w');
54            if (weekday === 7) {
55                return weekdayFormat(date);
56            } else if (weekday === 1) {
57                return (parseInt(weekdayFormat(date), 10) + 6) % 7;
58            } else {
59                var weekdayMod = 7 - weekday;
60                var currentDay = parseInt(weekdayFormat(date), 10);
61                return (currentDay + weekdayMod) % 7;
62            }
63        };
64    }
65}
```



← These things here :(

```
117 // first argument is the line number ?
118 if (typeof arguments[0] == 'number') {
119     i++;
120     m.line = arguments[0];
121 }
122
123 for (; i < arguments.length; i++) {
124     a = arguments[i];
125     if (a == null) {
126         text.push('null');
127     } else if (
128         typeof a == 'number' || typeof a == 'string' || typeof a == 'date'
129     ) {
130         text.push(a);
131     } else if (a.stack && a.lineNumber) {
132         // exception
133         m.error = a;
134         m.errmsg = exceptionFormat(a);
135     } else if (typeof a == 'array') {
136         // flatten it out ?
137         text.push('[');
138         text.push(a.join(', '));
139         text.push(']');
140     } else if (a.nodeType) {
141         // assume a XML/HTML node
142         text.push(node2text(a));
143     } else if (typeof a.toJSON == 'function') {
144         text.push(a.toJSON());
145     } else {
```

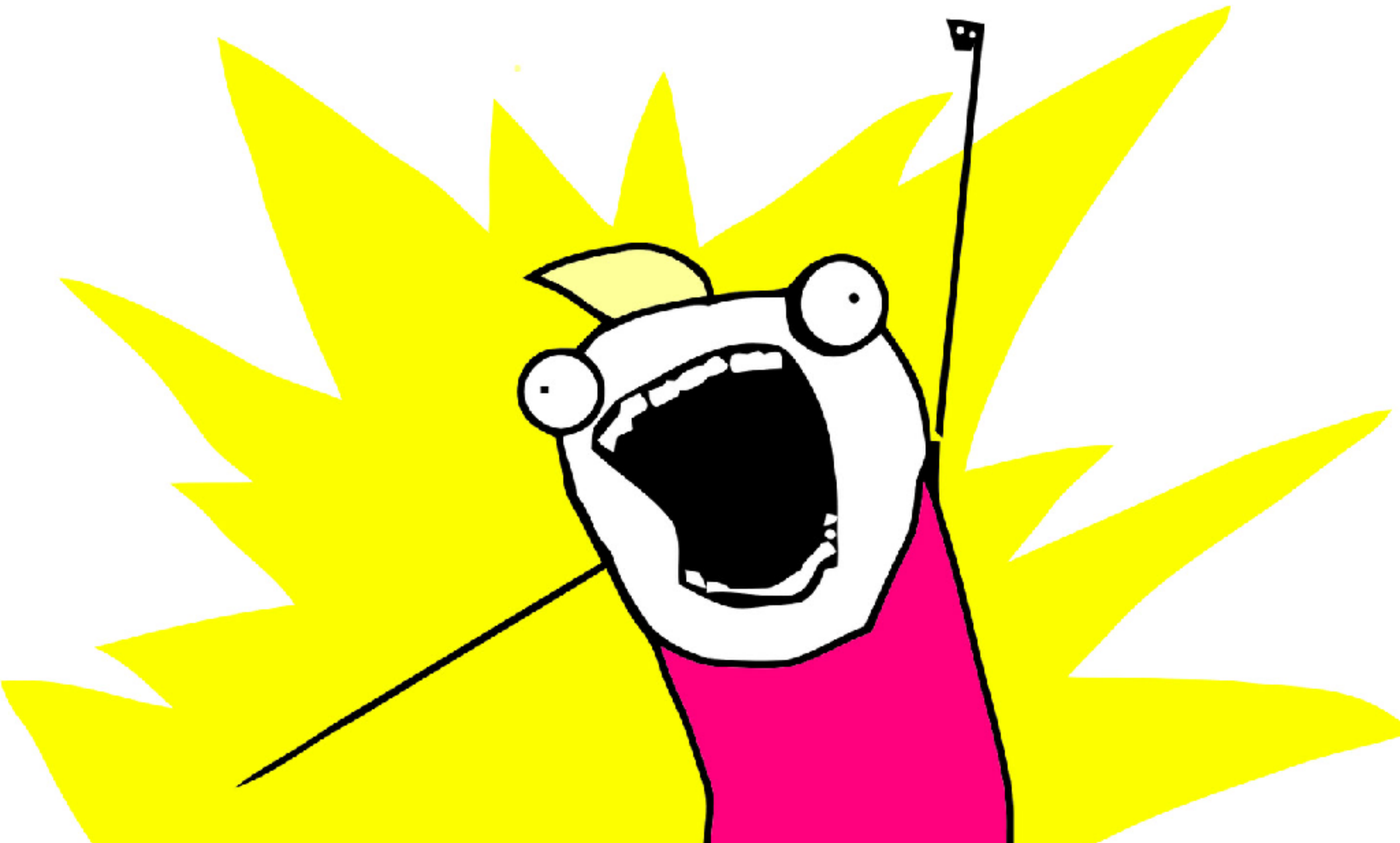


```
typedef a = 'da
```



How to fix that?

Lint all the things!





textlint



scsslint



JSON Lint



Stylelint

Why lint?

“On average, software developers spend
50% of their time finding and fixing bugs.”

– <http://www.prweb.com/releases/2013/1/prweb10298185.htm>

“...this inefficiency is estimated to cost the global economy *\$312 billion per year.*”

– <http://www.prweb.com/releases/2013/1/prweb10298185.htm>



In reality, though...

“On average, software developers spend
50% of their time finding and fixing bugs.”

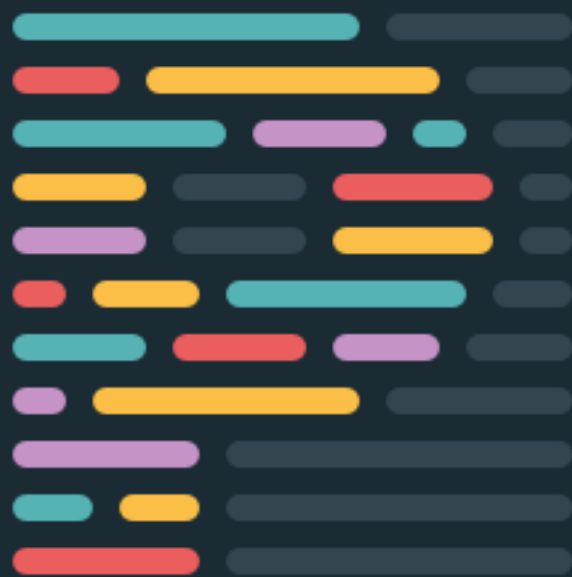
“On average, software developers spend
50% of their time discussing code style.”





You don't need to uglify
your code if it's already ugly!

How to fix that?




```
npm install -D prettier
```

Using linters & formatters

1. Fewer (stupid) bugs
2. Better readability => less time in code reviews
3. But it can be tedious 🤔

A typical workflow...



↔ Code

🔖 Issues 1

🔀 Pull requests 4

📁 Projects 0

✈ Pulse

📊 Graphs

⚙ Settings

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).



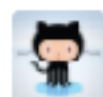
base: update-readme ▾

...

compare: modifications-to-143v ▾

✓ **Able to merge.** These branches can be automatically merged.

Please review the [guidelines for contributing](#) to this repository.



Modifications to 143v

Write

Preview

AA ▾ B i “ ↔ 🔗 ☰ ☷ ↶ @ 🚩

Leave a comment

Attach files by dragging & dropping, [selecting them](#), or pasting from the clipboard.

📄 Styling with Markdown is supported

[Create pull request](#)

Reviewers



No reviews — request one

Assignees



No one — assign yourself

Labels



None yet

Milestone



No milestone

🔗 3 commits

📄 2 files changed

💬 0 commit comments

👤 2 contributors



Commits on Aug 06, 2015



bernars

Merge pull request #1 from octo-org/update-readme ...

1509fa5



Commits on Nov 04, 2015



jleaver

Adds Branch 1 document

d3ae914



jleaver

Branch 2 test

a97b678

10 minutes later...



Review required

[Add your review](#)

At least one approved review is required by reviewers with write access. [Learn more.](#)



Some checks were not successful

[Hide all checks](#)

2 failing and 3 successful checks



continuous-integration/travis-ci/pr — The Travis CI build failed

Required

[Details](#)



continuous-integration/travis-ci/push — The Travis CI build failed

Required

[Details](#)

```
165:15  error  Missing semicolon  semi
```











```
✖ 1 problem (1 error, 0 warnings)
```
















D'OH! D'OH!
D'OH! D'OH!



 **octocat** added some commits 18 hours ago

-   Platform switcher broken out into own component 6052d0c
-   using JS- classes so we know what is happening a537a26
-   removing duplicate css 9cd086e
-   cleaning up the content ❌ 5db9a5f
-   Content updates ❌ 786d930

 **octocat** added some commits 18 hours ago

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-   cleaning up the content ❌ 5db9a5f
-   Content updates ❌ 786d930
-   Spacing on tips ✅ 52a428d



Changes approved

1 approved review by reviewers with write access. [Learn more.](#)

[Show all reviewers](#)



All checks have passed

4 successful checks

[Show all checks](#)



This branch has no conflicts with the base branch

Merging can be performed automatically.

[Update branch](#)

Squash and merge



You can also [open this in GitHub Desktop](#) or view [command line instructions](#).



WHY MUST LIFE BE SO HARD



Raise your hand if this sound familiar to you

Commits on Apr 9, 2017



Fix indentation

mc-zone committed on GitHub 3 days ago ✓ 94.69%



Merge branch 'master' into feature/import-chunk-name

mc-zone committed on GitHub 3 days ago ✗ 94.69%



updated stats

sokra committed 3 days ago ✓ 94.69%



Merge pull request #4679 from timse/rename-async-for-future-compatibi...

sokra committed on GitHub 3 days ago ✓



change Buffer.from to new Buffer

sokra committed on GitHub 3 days ago ✗ 94.70%



Merge branch 'master' into master

sokra committed on GitHub 3 days ago ✗



rename async to make it future proof

timse committed 3 days ago ✓ 94.69%



fix linting

timse committed 3 days ago



rename variable for future compatibility

timse committed 3 days ago ✓ 94.69%



fixup eslint issues

timse committed 3 days ago



rename variable for future compatibility

timse committed 3 days ago



fix lint issues

timse committed 3 days ago



rename variable for future compatibility







Search - fixing lint

GitHub, Inc. [US] <https://github.com/search?q=fixing+lint>

fixing lint Pull requests

Repositories 19 Code 360K Commits 428K

428,689 commit results

-  **Fixing linter**
vishnuvignapal007 committed to vishnuvignapal007/Anderson's 8 days ago
-  **Fixing linting .**
amare1337 committed to amare1337/MyWhole30 a day ago
-  **fixing linting**
akarl committed to halyard/buppar-pythonenv 6 days ago
-  **fixing lint**
ownzandy committed to hack-duke/hackduke-codes-for-good-web 6 days ago
-  **fixing lint**
sendikumar committed to webpack/webpack on GitHub 6 days ago
-  **Fixing linting**
Right2Drive committed to Right2Drive/ease-web 6 days ago

Search - fix indentation
















GitHub, Inc. [US] <https://github.com/search?utf8=✓&q=fix+inden...>

fix Indentation Pull requests Issues Cist

Repositories 41 Code 2M Commits 2M Issues 65K Wikis 3K Users

Showing 2,844,797 available commit results ?

Sort: Best match ▾

-  **Fix indentation**
jbmikk committed to jbmikk/pars 8 days ago  [j8b9877](#) 
-  **Fix indentation**
konstunn committed to konstunn/nmpe 8 days ago  [62ef4c1](#) 
-  **Indentation fix**
seldnr committed to flamingchickens1540/compenal-2017 11 days ago  [76b5dbb](#) 
-  **Fix indentation**
dakrone committed to dakrone/yes-mode 14 days ago  [e764374](#) 
-  **Indentation fix**
jean-1314 committed to htmlacademy-adaptive/308949-sedona 19 days ago  [88a33a9](#) 

Verified

428,689 commit results

Sort: Best match ▼



Fixing linter

vishnuvenugopal007 committed to [vishnuvenugopal007/AndersonOcean](#) 4 hours ago



029ed4b



Fixing linting.

amoore1337 committed to [amoore1337/MyWhole30](#) a day ago



904820d



fixing linting

akerl committed to [halyard/puppet-pythonenv](#) 6 days ago



5c78138









Search · fixing lint

GitHub, Inc. [US] <https://github.com/search?q=fixing+lint>

fixing lint Pull requests

Repositories 19 Code 360K Commits 428K

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vishnuvenugopal007 committed to vishnuvenugopal007/Anderson 8 days ago
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akerl committed to halyard/puppet-pythonenv 6 days ago
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ownzandy committed to hack-duke/hackduke-code-for-good-web 6 days ago
-  **fixing lint**
sendilkumarn committed to webpack/webpack on GitHub 6 days ago
-  **Fixing linting**
Right2Drive committed to Right2Drive/ease-web 9 days ago

Search · fix indentation
















GitHub, Inc. [US] <https://github.com/search?utf8=✓&q=fix+inden...>

fix indentation Pull requests Issues Gist

Repositories 41 Code 2M Commits 2M Issues 65K Wikis 3K Users

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Verified
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Search · fix indentation

Andrey

GitHub, Inc. [US] | https://github.com/search?utf8=✓&q=fix+inden...

🔍

🔒


📄

🔗

🌟

☁

⋮

 fix indentation

[Pull requests](#) [Issues](#) [Gist](#)

Repositories 41

Code 2M

Commits 2M


Issues 65K



Wikis 3K

Users


Showing 2,844,797 available commit results ⓘ



Sort: Best match ▾

 **Fix indentation**


 **d8b9877** 



[jbmikk](#) committed to [jbmikk/pars](#) 6 days ago

 **Fix indentation**


 **62ef4c1** 



[konstunn](#) committed to [konstunn/mmpe](#) 8 days ago

 **Indentation fix**

 **76b5dbb** 

[seldenr](#) committed to [flamingchickens1540/companal-2017](#) 11 days ago

 **Fix indentation**

“I wish I could lint *before* committing the changes to the repository”

– Everyone

—Just use git hooks!

changes.

Attach files by dragging & dropping, [selecting them](#), or pasting from the clipboard.

7 11 54



Kent C. Dodds @kentcdodds · Mar 7

have you considered lint-staged as a githook? That way they don't even need to think about it. It's pretty great.

2 7



Dan Abramov

@dan_abramov

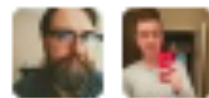
Following

Replying to @kentcdodds

I don't know how to add a githook to GitHub repo

LIKES

2



11:24 PM - 7 Mar 2017

3 2

git hooks are

1. Hard to setup
2. Hard to manage
3. Hard to share across the team


```
npm install -D husky
```

```
{  
  "scripts": {  
    "precommit": "eslint ."  
  }  
}
```



1259:9	warning	'analytics' is assigned a value but never used	no-unused-vars
1297:22	warning	'message' is defined but never used	no-unused-vars
1309:10	warning	'askTweetPopup' is defined but never used	no-unused-vars
1327:9	warning	'analytics' is assigned a value but never used	no-unused-vars
1382:22	warning	'message' is defined but never used	no-unused-vars
1400:10	warning	'askTweetSelectionPopup' is defined but never used	no-unused-vars
1402:9	warning	'analytics' is assigned a value but never used	no-unused-vars
1445:10	warning	'askFacebookPopup' is defined but never used	no-unused-vars
1460:9	warning	'analytics' is assigned a value but never used	no-unused-vars
1504:22	warning	'message' is defined but never used	no-unused-vars
1526:10	warning	'askBloggerPopup' is defined but never used	no-unused-vars
1540:9	warning	'id' is assigned a value but never used	no-unused-vars
1543:9	warning	'source' is assigned a value but never used	no-unused-vars
1546:9	warning	'postfix' is assigned a value but never used	no-unused-vars
1589:10	warning	'askHootsuitePopup' is defined but never used	no-unused-vars
1638:10	warning	'askReadabilityPopup' is defined but never used	no-unused-vars
1681:10	warning	'askLinkedInPopup' is defined but never used	no-unused-vars
1725:10	warning	'askCustomSharingPopup' is defined but never used	no-unused-vars
1753:9	warning	'postfix' is assigned a value but never used	no-unused-vars
1798:10	warning	'askPocketPopup' is defined but never used	no-unused-vars
1845:10	warning	'askInstapaperPopup' is defined but never used	no-unused-vars
1891:10	warning	'askRedefShare' is defined but never used	no-unused-vars
1938:10	warning	'updateAppUnreadCount' is defined but never used	no-unused-vars
1942:10	warning	'CreateElementForExecCommand' is defined but never used	no-unused-vars
1957:10	warning	'SelectContent' is defined but never used	no-unused-vars

✖ 6284 problems (4284 errors, 2000 warnings)

```
> husky - pre-commit hook failed (add --no-verify to bypass)
> husky - to debug, use 'npm run precommit'
```

Thanks husky!

1. ~~Hard to setup~~
2. ~~Hard to manage~~
3. ~~Hard to share across the team~~

...but linting the whole project

1. Can be quite slow
2. Will display irrelevant results

—What if we could run linters only on files
we're about to commit?

Meet   lint-staged!


```
npm install -D lint-staged
```

```
{  
  "scripts": {  
    "precommit": "lint-staged"  
  }  
}
```

```
{  
  "scripts": {  
    "precommit": "lint-staged"  
  },  
  "lint-staged": {  
    "*.js": "eslint"  
  }  
}
```

`npx mrm lint-staged`

git hooks are

1. ~~Hard to setup~~

AWESOME!

2. ~~Hard to manage~~

3. ~~Hard to share across the team~~

4. ~~Very slow~~

5. ~~Displaying irrelevant results~~

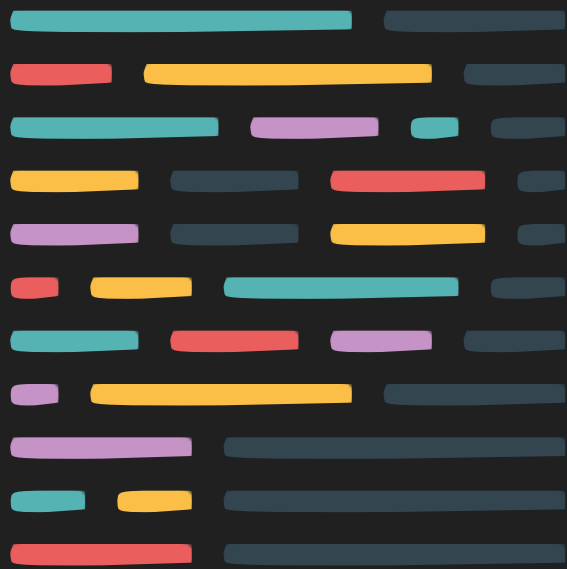
There is more!

Automatically
fix lint errors


```
{  
  "lint-staged": {  
    "*.js": "eslint"  
  }  
}
```

```
{  
  "lint-staged": {  
    "*.js": [  
      "eslint --fix",  
      "git add"  
    ]  
  }  
}
```

Automatically
reformat your code



```
{  
  "lint-staged": {  
    "*.js": [  
      "eslint --fix",  
      "git add"  
    ]  
  }  
}
```

```
{  
  "lint-staged": {  
    "*.js": [  
      "prettier --write",  
      "git add"  
    ]  
  }  
}
```

Projects/OSS/react-dropzone on eslint-config-okonet [?\$↑] via v6.10.2

→ g st

eslint-config-okonet...origin/eslint-config-okonet [ahead 2]

?? test.js

Projects/OSS/react-dropzone on eslint-config-okonet [?\$↑] via v6.10.2

→ █



Use with other
languages


```
{  
  "lint-staged": {  
    "*.js": [  
      "prettier --write",  
      "git add"  
    ]  
  }  
}
```

```
{  
  "lint-staged": {  
    "*. {js,json,md,css,scss}": [  
      "prettier --write",  
      "git add"  
    ]  
  }  
}
```

RE

```
{  
  "lint-staged": {  
    "*.js,json,md,css,scss": [  
      "prettier --write",  
      "git add"  
    ]  
  }  
}
```

```
{  
  "lint-staged": {  
    "*.re": [  
      "refmt --in-place",  
      "git add"  
    ]  
  }  
}
```

lint-staged


- Can run any task
- Easy to install via npm or mrm
- Easy to distribute across the team
- Easy to use!

🚫💩 lint-staged and prettier being used in create-react-app

gaearon commented on 8 Mar


Collaborator + 😊

I just tried it, and...



👍 1

❤️ 7



gaearon merged commit a235694 into facebookincubator:master

on 8 Mar

0 of 2 checks passed

View details

Revert

🚫💩 lint-staged and prettier being used in Babel!



Andrey Okonetchnikov
@okonetchnikov

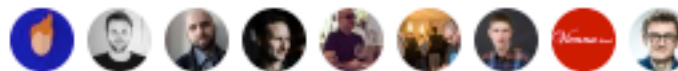


Wow! @babeljs is now using 🚫💩 lint-staged to run prettier and @geteslint on pre-commit hook! [github.com/babel/babel/pu ...](https://github.com/babel/babel/pull/71)

```
65 + },
66 + "lint-staged": {
67 +   "*.js": [
68 +     "eslint --format=codeframe --fix",
69 +     "git add"
70 +   ]
```

Retweets
7

Likes
14



3:13 PM - 28 Jun 2017



1



7



14



Lots of people use 🚫💩 lint-staged

The screenshot shows the GitHub repository page for `okonet / lint-staged`. The repository has 22 watchers, 2,469 stars, and 97 forks. The navigation bar includes links for Code, Issues (23), Pull requests (9), Projects (1), Wiki, Insights, and Settings. The left sidebar contains links for Pulse, Contributors, Community, Traffic, Commits, Code frequency, Dependency graph (highlighted), Network, and Forks. The main content area is titled "Dependency graph" and shows the "Dependents" tab. It displays "25,276 Repositories" and "5,948 Packages" that depend on `lint-staged`. A list of repositories is shown below, including `m31271n / react-norotation`, `comerc / anvilabs.co`, and `99xt-incubator / react-fileupload`, each with 0 stars and 0 forks.

okonet / lint-staged

Unwatch 22 Unstar 2,469 Fork 97

Code Issues 23 Pull requests 9 Projects 1 Wiki Insights Settings

Pulse Contributors Community Traffic Commits Code frequency **Dependency graph** Network Forks

Dependency graph

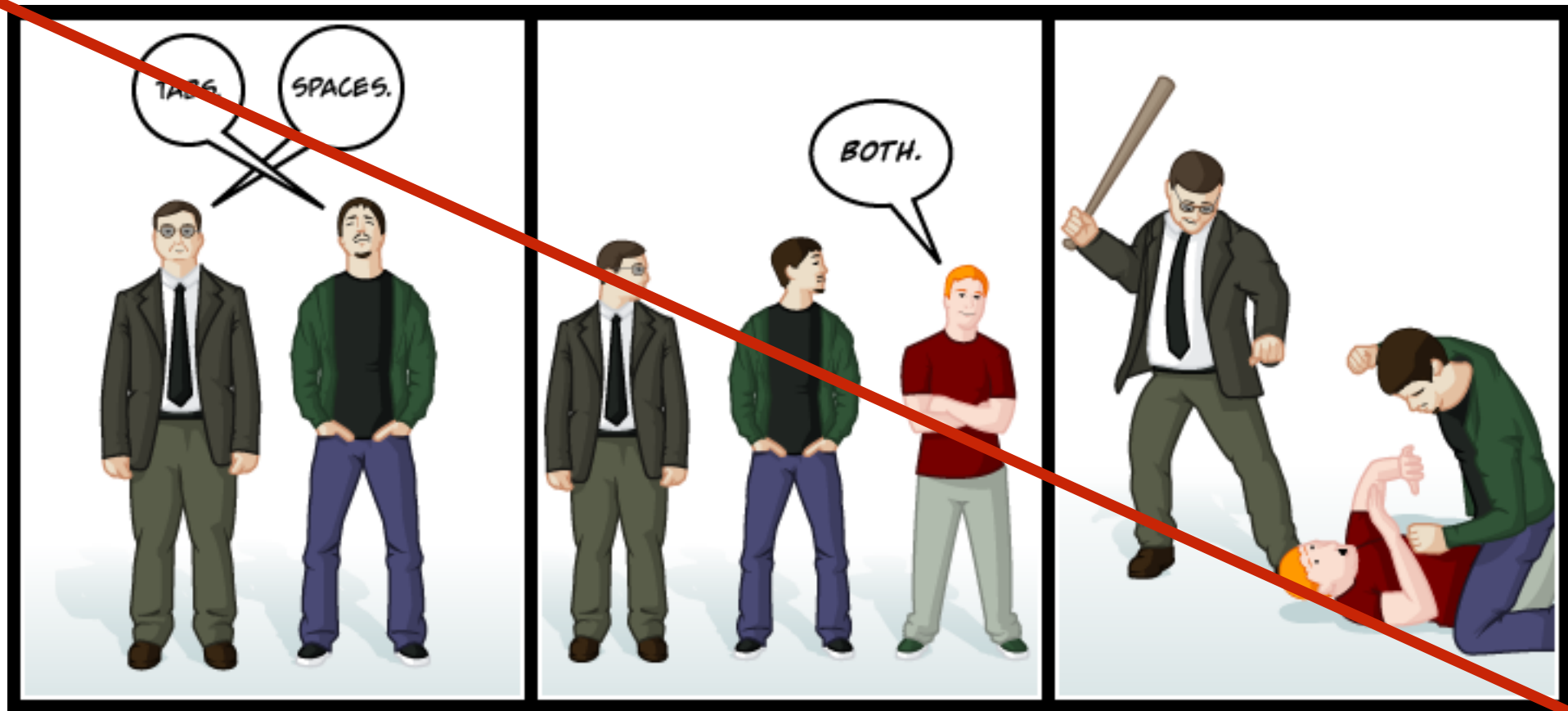
Dependencies Dependents

Repositories that depend on lint-staged

25,276 Repositories 5,948 Packages

m31271n / react-norotation	★ 0	🍴 0
comerc / anvilabs.co	★ 0	🍴 0
99xt-incubator / react-fileupload	★ 0	🍴 0

<https://github.com/okonet/lint-staged>



`npx mrm lint-staged`

Please solve real
problems!

Thank You!



Andrey Okonetchnikov

[@okonetchnikov](#)

<http://okonet.ru>

<https://github.com/okonet>