Markings of a Healthy OSS Project

Clement Ho
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Frontend Engineering Manager
GitLab
Austin, Texas USA
@ClemMakesApps
Single application for the entire DevOps lifecycle
We are hiring

jobs.gitlab.com
How do you determine whether a project is healthy?
There are 3 types of projects
Dead Project
Little to no project activity*

*There are multiple indicators to indicate project activity
### July 1, 2019 – July 8, 2019

#### Overview

<table>
<thead>
<tr>
<th></th>
<th>Active Pull Requests</th>
<th>Active Issues</th>
</tr>
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<tbody>
<tr>
<td>Merged Pull Requests</td>
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<td>0</td>
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<tr>
<td>Proposed Pull Requests</td>
<td>0</td>
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<tr>
<td>Closed Issues</td>
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<td>0</td>
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<tr>
<td>New Issues</td>
<td>0</td>
<td>0</td>
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</tbody>
</table>

There hasn’t been any commit activity on mermaidjs/mermaidjs.github.io in the last week.

Want to help out?

[Fork this repository](#)
Surviving Project
Minimal project activity
June 8, 2019 – July 8, 2019

Overview

- 1 Active Pull Request
- 106 Active Issues
- 0 Merged Pull Requests
- 1 Proposed Pull Request
- 69 Closed Issues
- 37 New Issues

Period: 1 month
Thriving Project

Vibrant project activity
June 8, 2019 – July 8, 2019

Overview

- **22 Active Pull Requests**
- **426 Active Issues**

**Merged Pull Requests**
- **10**

**Proposed Pull Requests**
- **12**

**Closed Issues**
- **353**

**New Issues**
- **73**
Thriving Project
Have a vibrant future
In an ideal world, we want all OSS projects to have a future
But, dependencies are easy to add but difficult to remove
When was the last time you upgraded a dependency proactively?
Project dependencies are like committing to a long term relationship
Thriving projects should

1. be **easy to contribute to**
2. be **scalable and maintainable**
3. have a **growing community**
4. have a **growing reputation**
5. have a **good leadership team**
Thriving projects should be easy to contribute to
Easy to Contribute

Is there a code of conduct?
Is there a license?
Based on your project license,

64% of users will decide whether to use your project

67% of users will decide whether to contribute to your project

Open source survey 2017 (https://opensourcesurvey.org/2017/)
Great resources

- Standard code of conduct used by more than 200k projects
  - https://www.contributor-covenant.org/
- Learning more about licenses
  - https://tldrlegal.com
Are there any well defined first-time-only issues?
45% of users find it difficult to get started when contributing to OSS

Great resources

- Guide that helps people get started in contributing
  - https://www.firsttimersonly.com/
- Another resource that people use to search for first time issue
  - https://up-for-grabs.net/
Is there documentation? Are there examples? Are the docs in multiple languages?
Documentation is highly valued, frequently overlooked, and a means for establishing inclusive and accessible communities.

Open source survey 2017 (https://opensourceurvey.org/2017/)
Are community PRs getting merged? Are they all bug fixes or a mixture of features?
All bug fixes => Surviving
All new features => Perfect
Bug fixes + New features => Realistic Goal
The industry average is 15-20 errors per 1000 lines of code

Thriving projects should have a **growing community**
Growing Community

Are conversations about the project taking place in a public medium?
Growing Community

How many users use this project?
Wider distribution of PR authors indicates a wider community

Excluding merges, 22 authors have pushed 96 commits to master and 96 commits to all branches. On master, 239 files have changed and there have been 15,110 additions and 8,703 deletions.
install

```
> npm i @gitlab/ui
```

weekly downloads

20,836

<table>
<thead>
<tr>
<th>version</th>
<th>license</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.5.0</td>
<td>MIT</td>
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</table>

homepage

[gitlab.com](https://gitlab.com)

repository

[gitlab](https://gitlab.com)
Most of this is from our CI
Thriving projects should have a growing reputation
Growing Reputation

Any companies or organizations advocating/partnering with it?
Understand the revenue streams for the project
Evan is creating Vue.js

203 patrons
$16,521 per month

If you need invoices for tax purposes, simply message me on Patreon with your company information after pledging and I can setup automatic invoicing (for Gold Sponsors and up only).
webpack

webpack is THE build solution for modern web applications.

Hosted by Open Source Collective 501(c)(6)  @webpack  webpack.js.org

Thanks to your financial contributions, we are operating on an estimated annual budget of $443,771

<table>
<thead>
<tr>
<th>Payouts</th>
<th>Annual Budget</th>
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<tr>
<td>50%</td>
<td>$255,000</td>
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<tr>
<td>Maintainer + 50%</td>
<td>$510,000</td>
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<tr>
<td>1 FT + 100%</td>
<td>$765,000</td>
</tr>
<tr>
<td>2 FT + 100%</td>
<td>$1,000,000</td>
</tr>
</tbody>
</table>

Today's Balance: $17,850.46
Estimated Annual Budget: $443,771
Is there an increase in search trends? Tutorials, blog posts or social media conversations?
https://trends.google.com/
Coupon online courses 24 @... 1h
Courses Free Discount - Javascript for Beginners Learn by Doing Practical Exercises ->
coupononlinecourses.blogspot.com/2019/07/javasc...

#udemy #coupons #100DaysOfCode #javascript #Laravel #PHP #bootstrap4 #React #webdevelopment #Angular #html5 #css3 #Nodejs #redux #vuejs #Django #Python #MongoDB

Simpliv @simplivlc
Complete Step By Step Java For Testers simpliv.com/java/completes...
#Developer #programming #programmer #DevOps #webdevelopment #appdevelopment #100DaysOfCode #Java #Python #javascript #NodeJS #Angular #reactjs #VueJS #CodeNewbie
Does it have a global following?
Thriving projects should be scalable and maintainable
Scalable and Maintainable

Is the code well tested?
Don’t let the bar be does it have tests. Check the tests and understand them
Erin @erinfranmc · Jul 10

expect(umbrellaOpens).toBe(true)

tests: 1 passed, 1 total

**all tests passed**
Is there a good ratio of maintainers vs contributors?
Don’t let maintainers be the bottleneck for contributors
At GitLab, we aim for a ratio of 1:4 maintainers to contributors
Scalable and Maintainable

Is there a regular release cycle?
Is it documented?
Bugs happen, security vulnerabilities happen, a clear release process helps everyone trust the project more
Thriving projects should have a good leadership team
Leadership

Is there more than one maintainer in case something unforeseen happens?
It's a lot of pressure for one maintainer
If something happens to the maintainer, that would greatly negatively impact the project.
Is the leadership aligned with the community?
Bottom Line:
Project health and future is indicated by many data points
Case Study: Weex
WEEX
https://weex.apache.org/
Weex is using native components and native modules to take advantage of native rendering performance and platform capabilities. Both components and ...
Guide · 简体中文 · Get Started · Docs

What is Weex? | WEEX
https://weex.apache.org/guide/introduction.html
May 14, 2019 · Weex enables developers to use modern web development ...

Guide - WEEX - The Apache Software Foundation!
https://weex.apache.org/guide/
Jan 29, 2019 · Documentation: Quick start · Developer guide. Resources ...

Weex - GitHub
https://github.com/alibaba/weex · Translate this page
A framework for building Mobile cross-platform UI. Contribute to alibaba/weex development by creating an account on GitHub.

Native apps with Vue.js: Weex or NativeScript? — chapter II
https://hackernoon.com/native-apps-with-vue-js-weex-or-nativescript-chapter-ii-6d17...
Mar 5, 2018 · Weex has a new website with better documentation. The CLI tools (weex-toolkit) were refined and should provide a smoother development ...

Native apps with Vue.js: Weex or NativeScript? — chapter I
https://hackernoon.com/native-apps-with-vue-js-weex-or-nativescript-8df0bac041d
Aug 12, 2017 · Weex is a project created by the chinese e-commerce giant Alibaba. Its slogan is "Write
Blog posts
Weex is a framework for building performant mobile apps with modern web technology.

Get Started

High Performance

Weex is using native components and native modules to take advantage of native rendering performance and platform capabilities. Both components and modules are pluggable and extendable.
Weex is a framework for building performant mobile apps with modern web technology.

Get Started >>

High Performance

Weex is using native components and native modules to take advantage of native rendering performance and platform capabilities. Both components and modules are pluggable and extendable.
Has license

Also had code of conduct (not in screenshot)
July 2, 2019 – July 9, 2019

Overview

- 13 Active Pull Requests
- 11 Active Issues

Excluding merges, 7 authors have pushed 11 commits to master and 19 commits to all branches. On master, 44 files have changed and there have been 536 additions and 625 deletions.

11 Pull requests merged by 6 people

- Merged #2862 [Android] Fix potential NPE 14 hours ago
- Merged #2863 [Android] Fix potential NPE 15 hours ago
Active PR and issue activity

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11 Pull requests merged by 6 people

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<table>
<thead>
<tr>
<th>Tag</th>
<th>Date</th>
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<th>Files</th>
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<tbody>
<tr>
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<td>6 days ago</td>
<td>46648</td>
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<tr>
<td>0.26.0-RC1</td>
<td>6 days ago</td>
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<td>0.24.0</td>
<td>on May 23</td>
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<td>on May 7</td>
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<td>on May 8</td>
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<tr>
<td>0.24.0-RC1</td>
<td>on Apr 29</td>
<td>51904</td>
<td>zip,</td>
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<tr>
<td>0.20.3.0-beta</td>
<td>on Dec 12, 2018</td>
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<td>on Nov 21, 2018</td>
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<td>on May 23</td>
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<td>on May 7</td>
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<td>on May 8</td>
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</tr>
</tbody>
</table>
Join Weex community

Community over code

Weex project belongs to Apache Software Foundation and Weex community respects and fulfills the Apache rule, which is Community over code.

Code of Conduct

To make an open and friendly community, Weex community adopt Contributor Covenant as the code of conduct.

Mailing List

If it didn't happen on a mailing list, it didn't happen.

Subscribing mailing list of weex is necessary to join weex community.

In Weex community, feature requests, discussions and decisions happen on the mailing list, which is open to the whole world.
Join Weex community

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Weex Project Incubation Status

This page tracks the project status, incubator-wise. For more general project status, look on the project website.

Description

Weex is a framework for building Mobile cross-platform High performance UI. Weex enables developers to use Web-like syntax to build iOS, Android and Web UI with a single codebase.

News

- 2018-12-10 Release 0.20.0
- 2018-10-08 Release 0.19.0
- 2018-08-04 New Committer, Jonathan Dong
- 2017-10-19 New Committer, wenting shi
- 2017-09-13 New Committer, gursooe
- 2017-08-09 New Committer, Hanks
- 2017-06-16 New Committer, Jianfeng Li
- 2017-06-08 First Release, 0.12.0
- 2017-04-24 New Committer, HaiLio Son
- 2017-04-18 New Committer, Tancy
- 2017-04-5 New Committer, TianYi Ma
- 2017-02-23 New Committer, Yang Shen
- 2016-11-30 Project enters incubation.

Project info

- link to the main website
- link to the page(s) that tell how to participate (Website,Mailing lists,Bug tracking,Source code)
- link to the project status file (Committee,non-incubation action items,project resources, etc)

If the project website and code repository are not yet setup, use the following table:

<table>
<thead>
<tr>
<th>item</th>
<th>type</th>
<th>reference</th>
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</thead>
<tbody>
<tr>
<td>Website</td>
<td>www</td>
<td><a href="http://weex.incubator.apache.org/">http://weex.incubator.apache.org/</a></td>
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<tr>
<td></td>
<td>wiki</td>
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<tr>
<td>Mailing list</td>
<td>dev</td>
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</table>
New committers are being added to project
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<td>Mylue Krantz</td>
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<td>dongyayun</td>
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<td>Yayun Dong</td>
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</table>

Extra

**Incubation status reports**

- January, 2017
- March, 2017
- April, 2017
17 committers but majority from Asia, this could have better representation
Abstract

WARNING
This page only gives a brief step of Weex release, always reference the release policy of ASF if you have questions or confusions.

TIP
Content of this page aimed at Weex release manager, PPCMs and committers of Weex. End-users may consider using the artifacts of Weex release directly.

This page describes the steps of Weex release under ASF policy.

Releases are, by definition, anything that is published beyond the group that owns it.

A release is normally conducted by a release manager who is a committer or PPCMC member of Weex.

WARNING
Release must be voted before publishing according to the ASF’s policy.

WARNING
Release are always about source code, binary is only published for users' convenience.
Clear release process
Week

Weex is a framework for building Mobile cross-platform high performance UI.

Weex has been incubating since 2016-11-30.

Three most important issues to address in the move towards graduation:
1. A clear roadmap and corresponding project management, which should all be public and transparent to the community
2. Committers & PPMC members should be more activate and response in time when dealing with Email, Github Issue/Pull request

Any issues that the Incubator PMC (IPMC) or ASF Board wish/need to be aware of?
The development of Weex is based on the Weex Github Repo, but none of the PPMC members have maintainer or administration privilege on the repo (https://github.com/apache/incubator-weex), which makes it time costing or impossible to add Webhook, PR Review Rules, etc. as INFRA member might response to a JIRA issue several days or weeks later.

How has the community developed since the last report?
New Committer: Qianyuan Wang(wfyfavor) and Douma Fang
75 Github issues solved/closed since last report, 56 issues still open.

How has the project developed since the last report?
Released a new version (v0.20.0)
131 PRs since last report

How would you assess the podling’s maturity?
Please feel free to add your own commentary.

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<tbody>
<tr>
<td>[ ]</td>
<td>Initial setup</td>
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<tr>
<td>[ ]</td>
<td>Working towards first release</td>
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<tr>
<td>[X]</td>
<td>Community building</td>
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<td>[ ]</td>
<td>Preparing graduation</td>
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<tr>
<td>[ ]</td>
<td>Other</td>
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Date of last release:
2018-12-10 (v0.20.0)

When were the last committers or PPMC members elected?
2018-12-10

Have your mentors been helpful and responsive or are things falling through the cracks? In the latter case, please list any open issues that need to be addressed.
Yes, they are helpful, maybe one more mentor would be better.

Signed-off-by:

[X] Weex | Willem Ning Jiang

Comments:
Need more committers outside of Alibaba group

Working towards growing the community
My evaluation: A-
Thank you