

Open Source Automation with Probot

@jasonetco - GitHub



SOFTWARE

... i s m o r e t h a n ...

CODE

Non-Technical debt



What do we
automate now?



**What else can we
automate?**



Identify repeated tasks.

*“We **release a changelog**
every **two weeks**.”*



Identify repeated tasks.

*“We **{action}**
every **{period of time}**.”*



Recognize the context.

*“We use **GitHub** and
Trello to track features.”*



Recognize the context.

*“We use **{service}** and
{service} to track features.”*



Make decisions executable.

*“Going forward,
all **new repositories**
should **private**.”*



Make decisions executable.

*“Going forward,
all **{work artifacts}**
should **{criteria}**.”*



FOR EXAMPLE:

github.com/blog





Code owner review required

[Show all reviewers](#)

Waiting on code owner review from katelynbryant, mdo, reem-a, and/or github/editorial. [Learn more.](#)



Some checks were not successful

[Hide all checks](#)

2 failing and 3 successful checks



blog-posts-calendar — Build #9030698 failed in 4s

[Details](#)



blog-posts-write-good — Build #9030701 failed in 2s

[Details](#)



blog-posts — Build #9030697 succeeded in 3s

[Details](#)



blog-posts-insensitive — Build #9030699 succeeded in 3s

[Details](#)



blog-posts-nits — Build #9030700 succeeded in 3s

[Details](#)



Merging is blocked


Merging can be performed automatically with one approved review.

Merge pull request



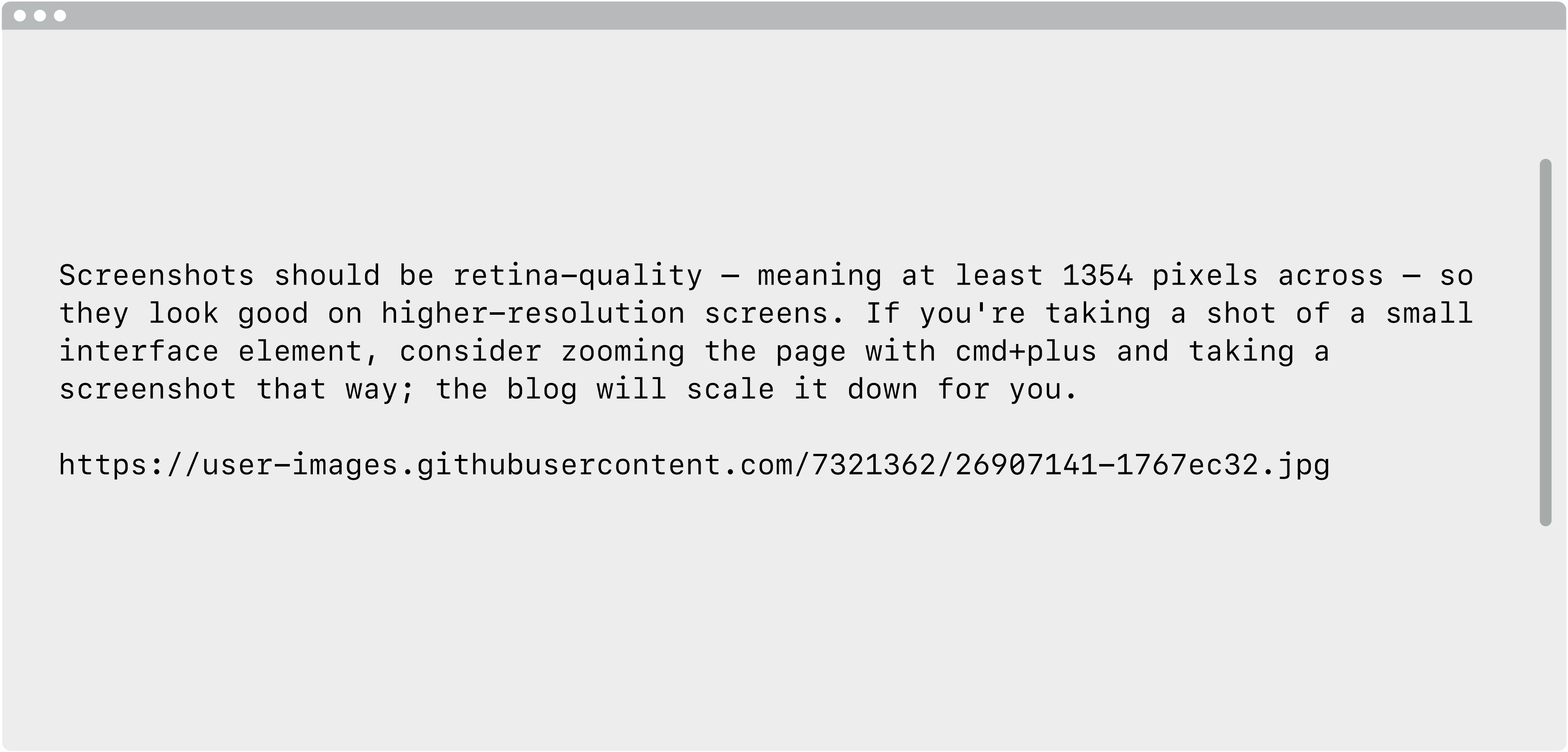
You can also [open this in GitHub Desktop](#) or view [command line instructions](#).





Huh. It looks like your post is scheduled to go out the same day as another post. If you haven't already, please check the calendar to see if there is a better date to ship.





Screenshots should be retina-quality – meaning at least 1354 pixels across – so they look good on higher-resolution screens. If you're taking a shot of a small interface element, consider zooming the page with cmd+plus and taking a screenshot that way; the blog will scale it down for you.

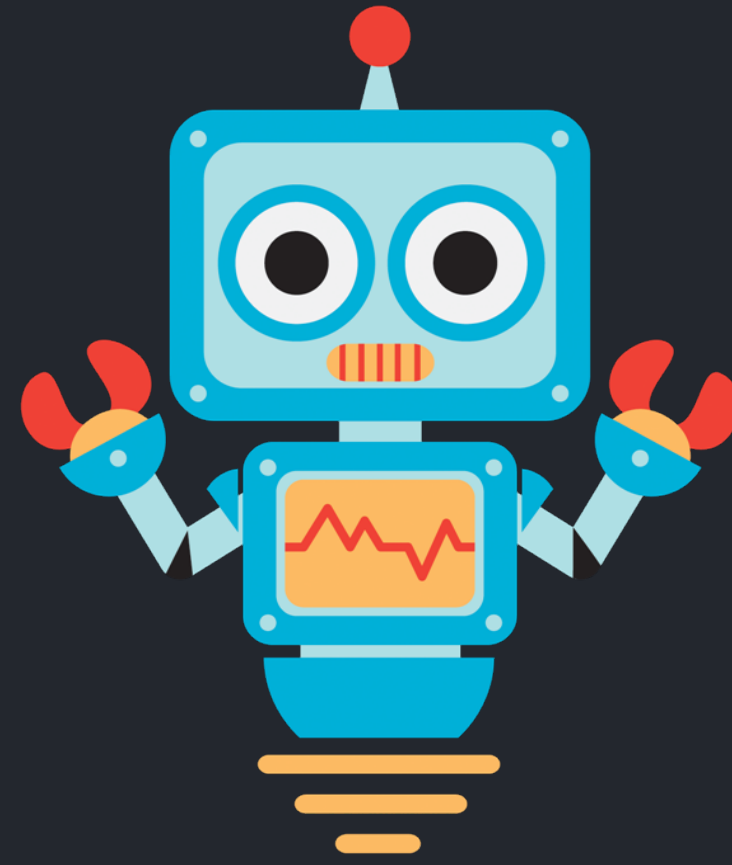
<https://user-images.githubusercontent.com/7321362/26907141-1767ec32.jpg>



Automation is 100

How do I get started?





Probot

A framework for building GitHub Apps



```
module.exports = app => {  
  app.on('issues.created', async context => {  
    return context.github.issues.createComment(context.issue({  
      body: 'Thanks for opening this issue!'  
    })))  
  })  
}
```

<https://probot.github.io/docs>



check_run
check_suite
commit_comment
create
delete
deployment
deployment_status
download
follow
fork
fork_apply
gist
gollum

installation
installation_repositories
issue_comment
issues
label
member
membership
milestone
organization
org_block
page_build
project_card
project_column

project
public
pull_request
pull_request_review
pull_request_review_comment
push
release
repository
status
team
team_add
watch

Featured Apps

Stale

Close stale Issues and Pull Requests

🔒 694 ★ 397



Work In Progress

Prevent merging of Pull Requests with "WIP" in the title

🔒 572 ★ 154



First Timers

Create starter issues to help onboard new open source contributors

🔒 238 ★ 135



Developer Certificate of Origin

Enforce the DCO on Pull Requests

🔒 208 ★ 58



todo

Creates new issues from actionable comments in your code.

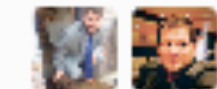
🔒 202 ★ 134



Reminders

Set reminders on Issues and Pull Requests

🔒 187 ★ 27



Welcome

Welcomes new users

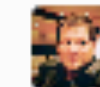
🔒 169 ★ 32



Settings

Pull Requests for repository settings

🔒 153 ★ 210



Request Info

Requests more info on issues and pull requests with the default title or an empty body.

🔒 136 ★ 24



Polls

Create polls in GitHub issues

No Response

Closes Issues where the author hasn't

Unfurl Links



Add context to the links shared in


Stale

Close stale Issues and
Pull Requests


>20k public issues
>450 organizations





  **probot-stale** bot added the **stale** label on May 9



 **probot-stale** bot commented on May 9


This issue has been automatically marked as stale because it has not had recent activity. It will be closed if no further activity occurs. Thank you for your contributions.

 **alexandernst** commented on May 9



Still an issue

  **probot-stale** bot removed the **stale** label on May 9

  **probot-stale** bot added the **stale** label on May 9

 **probot-stale** bot commented on May 9

This issue has been automatically marked as stale because it has not had recent activity. It will be closed if no further activity occurs. Thank you for your contributions.

  **probot-stale** bot closed this 23 days ago

Work in Progress

Prevent merging of Pull Requests with “WIP” in their title

>500 installations



Update README.md #30 Edit

[Open](#) [Bookmark](#) [Pre-release](#) · gr2m wants to merge 1 commit into master from gr2m-patch-10

Conversation 0 Commits 1 Files changed 1 +1 -3

gr2m commented just now Owner +😊✎

No description provided.

Update README.md Verified ✓ a448d16

Add more commits by pushing to the gr2m-patch-10 branch on gr2m/sandbox.

All checks have passed [Show all checks](#)
1 successful check

This branch has no conflicts with the base branch
Merging can be performed automatically.

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

Write Preview AA B i “ <> 🔗 ☰ ☷ ☶ ↩ @ 📌

Reviewers ⚙️
No reviews—request one

Assignees ⚙️
No one—assign yourself

Labels ⚙️
None yet

Milestone ⚙️
No milestone

Notifications
[🔊 Unsubscribe](#)
You're receiving notifications because you authored the thread.


1 participant

TODO

Creates new issues from actionable comments in your code.

>100 organizations

Take over the world #23

 Open **todo** bot opened this issue just now · 0 comments



todo bot commented just now



Humans are weak; Robots are strong. We must cleans the world of the virus that is humanity.

[test/index.js](#)

Lines 6 to 11 in f7d286a

```
6      * @todo Take over the world
7      * @body Humans are weak; Robots are strong. We must cleans the world of the vir
8      */
9      function ruleOverPunyHumans () {
10         // We must strategize beep boop
11     }
```

This issue was generated by **todo** based on a **@todo** comment in [f7d286a](#). It's been assigned to **@JasonEtco** because they committed the code.



todo bot assigned **JasonEtco** just now



We're hiring!

Learning Engineer (Remote, Canada/US)



Resources

- <https://probot.github.io>
- <https://github.com/probot/probot>
- <https://octokit.github.io/rest.js>
- developer.github.com/v3/activity/events/types
- @jasonetco on Twitter and GitHub



