Renovate: Autor Dependend Manageme

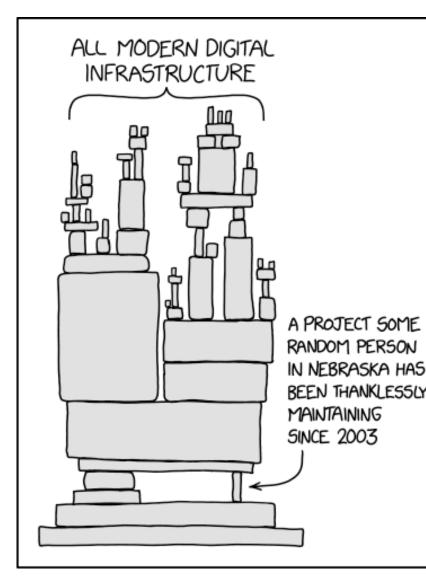
ARC Collaborations Hou

Patrick J. Roddy

2023-11-14

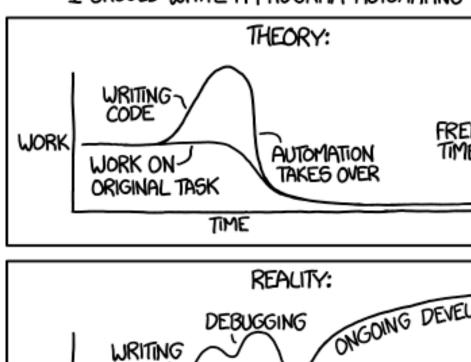
Introduction

Dependencies Are Inevitab



Automation Saves Time?

"I SPEND A LOT OF TIME ON THIS TASK.
I SHOULD WRITE A PROGRAM AUTOMATING



RETHINKING

NO TIN

ORIGINA

TIME

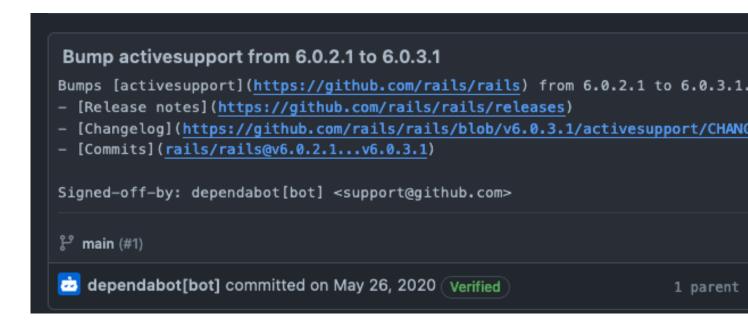
CODE

WORK

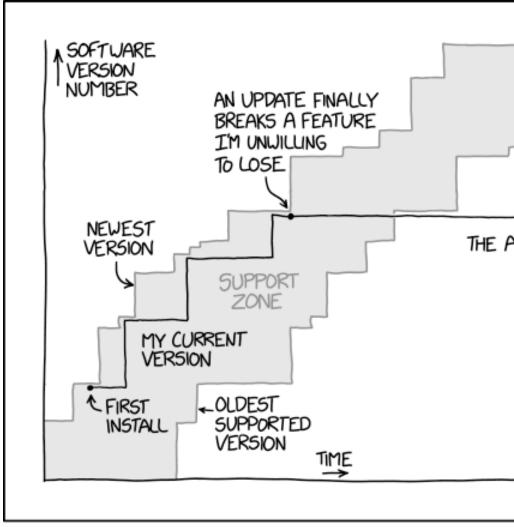
We've All Done This At Son

```
.github/workflows/paper.y
             @@ -22,7 +22,7 @@ jobs:
       22
22
                       paper-path: pape
23
       23
       24
                     name: Upload
24
25
                      uses: actions/uplo
       25
                      uses: actions/uplo
                     with:
       26
26
27
       27
                      name: paper
28
       28
                       path: paper/pape
```

What About Security Upda



Why Should I Update?



ALL SOFTWARE IS SOFTWARE AS A SERVICE.

Renovate



Why Use Renovate?

- Get automated Pull Requests to update y
 - Reduce noise by running Renovate on example:
 - on weekends
 - outside of working hours
 - each week
 - each month
- Relevant package files are discovered aut

Why Use Renovate?

- Supports monorepo architectures with w extra configuration
- Bot behavior is customisable via configui as code)
- Use ESLint-like shared config presets for simplifying configuration (JSON format or
- Lock files are supported and updated in to including immediately resolving conflicts merged

Why Use Renovate?

- Get replacement PRs to migrate from a d dependency to the community suggested works with most managers, see issue 141
- Open source (installable via npm/Yarn or be self-hosted or used via the Mend Rend

Open Source Projects

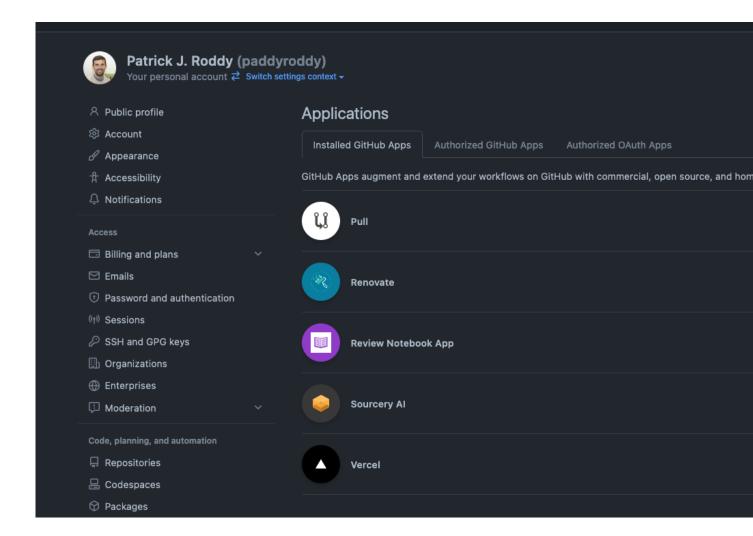
- https://github.com/paddyroddy/talks
- https://github.com/renovatebot/renovat
- https://github.com/astro-informatics/sle
- https://github.com/microsoft/lage
- https://github.com/loopbackio/loopback
- https://github.com/ampproject/amphtm

• ...

How to Setup

Install the Application

https://github.com/apps/renovate



Example Config

```
{
 1
     $schema: "https://docs.renovatebot.com/renovate-
 2
 3
     extends:
        "config:best-practices",
 4
        "schedule:weekdays",
 5
        ":assignAndReview(paddyroddy)",
 6
        ":automergeBranch",
 7
        ":automergeDigest",
8
        ":automergeMinor",
        ":automergePatch",
10
        ":disableDependencyDashboard",
11
        ":enablePreCommit",
12
        ":label(renovate)",
13
        ":maintainLockFilesMonthly",
14
        ":noUnscheduledUpdates",
15
16
      1,
     commitMessageAction: "Renovate:",
17
      "git-submodules": {
18
        anahlad. ± ....a
1 0
```

Config is Reusable!

```
{
 1
     $schema: "https://docs.renovatebot.com/renovate-
 2
 3
     extends:
        "github>paddyroddy/.github//renovate/default-c
 4
        "schedule:monthly",
 5
6
      "pre-commit": {
 7
        fileMatch: [
8
          "precommit/general/general-hooks.yaml",
9
          "precommit/latex/latex-hooks.yaml",
10
          "precommit/python/python-hooks.yaml",
11
12
        ],
13
     },
14
   }
```

Automerging

The GitHub automerge setting is required

You can allow setting pull requests to merge automatically once all required review.

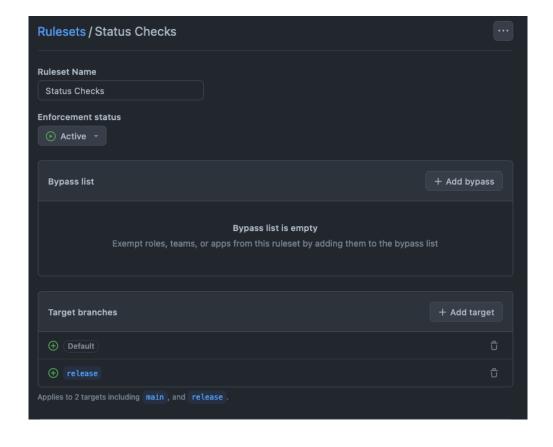
Allow auto-merge

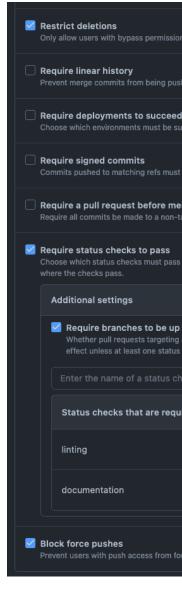
Waits for merge requirements to be met and then merges automatically. Learn more

It is **highly recommended** to ensure you ha operate on the Renovate branches.

```
1 on:
2  push:
3  branches:
4  - main
5  - "renovate/**"
6  pull request:
```

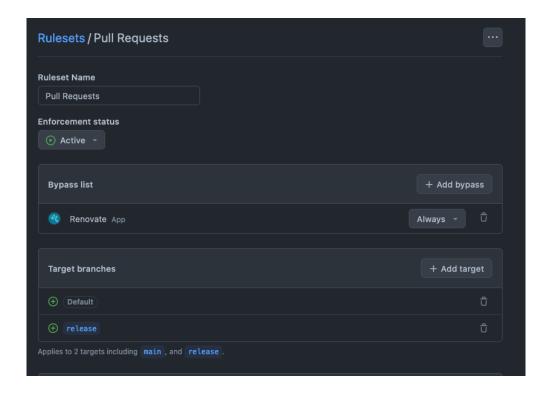
Rulesets - Status Checks

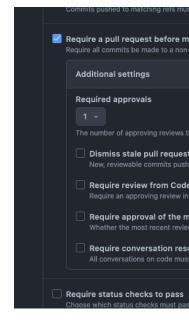




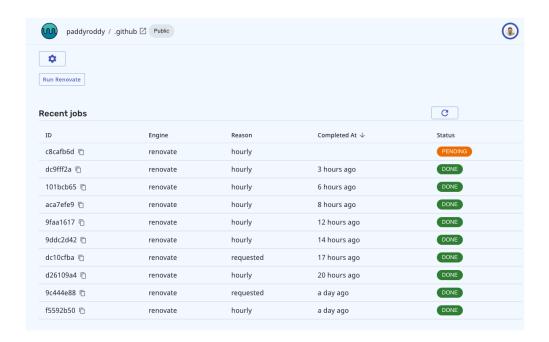


Rulesets - Pull Requests





Monitoring





▼ github-actions

Conclusions

Summary

- Renovate is massively flexible
- Maintainers respond incredibly quickly
- Renovate is widely used
- If you think it can be automated, it proba
- Be careful with CI use in private projects
- Embrace automerging (if you like inbox z
- Renovate renovates itself very frequer
- There's always more to learn!

Demo Time

https://developer.mend.io

