Mergeable Documentation

Release 1.1

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Mergeable helps automate your team's GitHub workflow without a single line of code.

CHAPTER 1

Usage

- 1. Install the Mergeable GitHub App.
- 2. Create your recipe(s) using *Configuration* or check out some ready to use examples at *Recipes*.
- 3. Commit and push the recipes to your repository at .github/mergeable.yml
- 4. (Optional) You can also create a default configuration for an organisation by creating a repo called *.github* and adding your file there. See *Organisation-wide defaults* for details.

Note: You can also deploy to your own server. See deploying

CHAPTER 2

Configuration

Mergeable is highly configurable.

First, you'll need to start by creating a .github/mergeable.yml file in your repository.

Hint: Check out our Recipes page for examples and most commonly used settings

Next, we'll go into how the configuration is structured.

2.1 Basics

Mergeable configuration consists of an array of independent recipes where each recipe needs to have the following properties:

when: specify webhook event(s) in which to process the validation

name: a friendly name which appears on the PR for the associated check

filter: specify a series of optional filters to be checked and only runs validators if they are passing

validate: specify a series of validator to be checked

pass: specify a series of action to execute if the validation suite returned a pass

fail: specify a series of action to execute if the validation suite returned a fail

error: specify a series of action to execute if the validation suite returned a error

Each recipe appears as a separate check in the pull request.

Here is a full example of how a recipe looks -

```
version: 2
mergeable:
    - when: {{event}}, {{event}} # can be one or more
```

```
name: check name A
   filter:
     # list of filters (optional). Specify one or more.
     - do: {{filter}}
       {{option}}: # name of an option supported by the validator.
         {{sub-option}}: {{value}} # an option will have one or more sub-options.
   validate:
     # list of validators. Specify one or more.
     - do: {{validator}}
       {{option}}: # name of an option supported by the validator.
         {{sub-option}}: {{value}} # an option will have one or more sub-options.
   pass: # list of actions to be executed if all validation passes. Specify one or_
⇔more. Omit this tag if no actions are needed.
     - do: {{action}}
   fail: # list of actions to be executed when at least one validation fails...

ightarrow Specify one or more. Omit this tag if no actions are needed.
     - do: {{action}}
   error: # list of actions to be executed when at least one validator throws an,
-error. Specify one or more. Omit this tag if no actions are needed.
     - do: {{action}}
 - when: {{event}}, {{event}} # example for second recipe
   name: check name B
   filter:
     # list of filters (optional). Specify one or more.
     - do: {{filter}}
       {{option}}: # name of an option supported by the validator.
         {{sub-option}}: {{value}} # an option will have one or more sub-options.
   validate:
     # list of validators. Specify one or more.
     - do: {{validator}}
       {{option}}: # name of an option supported by the validator.
         {{sub-option}}: {{value}} # an option will have one or more sub-options.
   pass: # list of actions to be executed if all validation passes. Specify one or_
→more. Omit this tag if no actions are needed.
     - do: {{action}}
   fail: # list of actions to be executed when at least one validation fails.
-Specify one or more. Omit this tag if no actions are needed.
     - do: {{action}}
   error: # list of actions to be executed when at least one validator throws an.
Gerror. Specify one or more. Omit this tag if no actions are needed.
     - do: {{action}}
```

Note: There are some default actions that'll be automatically applied based on the events specified

2.2 Filters

Filters are checks that mergeable will process in order to determine if validator will be executed.

Note: Each filter have certain events that it can support, so keep an eye out for them.

Hint: Don't see an filter that should be on here? Let us know by creating an issue on github

Filter List

2.2.1 Author

```
- do: author
must_include:
    regex: 'user-1'
    message: 'Custom include message...'
must_exclude:
    regex: 'user-2'
    message: 'Custom exclude message...'
team: 'org/team-slug' # verify that the author is in the team
# all of the message sub-option is optional
```

you can use and and or options to create more complex filters

```
- do: author
and:
    - must_exclude:
        regex: 'bot-user-1'
        message: 'Custom message...'
or:
    - must_include:
        regex: 'user-1'
        message: 'Custom message...'
    - must_include:
        regex: 'user-2'
        message: 'Custom message...'
```

you can also nest and and or options

```
- do: author
and:
    - or:
        - must_include:
        regex: 'user-1'
        message: 'Custom message...'
        - must_include:
        regex: 'user-2'
        message: 'Custom message...'
        - must_exclude:
        regex: 'bot-user-1'
        message: 'Custom message...'
```

Supported Events:

'pull_request.*', 'pull_request_review.*'

2.2.2 Repository

```
- do: repository
visibility: 'public' # Can be public or private
name:
    must_include:
    regex: 'my-repo-name'
    must_exclude:
    regex: 'other-repo-name'
topics:
    must_include:
    regex: 'my-topic'
    message: 'Custom message...'
    must_exclude:
    regex: 'other-topic'
    message: 'Custom message...'
    # all of the message sub-option is optional
```

you can use and or options to create more complex filters

```
- do: repository
 topics:
   and:
     - must_include:
        regex: 'topic-1'
         message: 'Custom message...'
     - must_include:
         regex: 'topic-2'
         message: 'Custom message...'
   or:
     - must_include:
         regex: 'topic-3'
         message: 'Custom message...'
     - must_include:
         regex: 'topic-4'
         message: 'Custom message...'
```

you can also nest and and or options

```
- do: repository
topics:
    and:
        - or:
            - must_include:
                regex: 'topic-1'
                message: 'Custom message...'
                - must_include:
                    regex: 'topic-2'
                    message: 'Custom message...'
                - must_include:
                    regex: 'topic-3'
                    message: 'Custom message...'
```

Supported Events:

'pull_request.*', 'pull_request_review.*'

2.2.3 Payload

Check against any available fields within the payload, each event can have different field, please refer to 'github API documentation<https://docs.github.com/en/developers/webhooks-and-events/webhook-events-and-payloads>'_ for available fields.

An example to check if a pull_request_review event has state of changes_requested

```
- do: payload
  review:
    state:
    must_include:
    regex: 'changes_requested'
```

To check if a *pull_request* event is not a *draft*

```
- do: payload
pull_request:
draft:
boolean:
match: false
```

An example to check if a pull_request event has a label named foo

```
- do: payload
pull_request:
labels:
must_include:
regex: 'foo'
key: 'name'
```

Each field must be checked using one of the following options

```
boolean:
  match: true/false
must_include:
  regex: 'This text must be included'
  regex_flag: 'none' # Optional. Specify the flag for Regex. default is 'i', to_
  → disable default use 'none'
  key: 'name' # Optional. If checking an array of objects, this specifies the key to_
  → check.
must_exclude:
  regex: 'Text to exclude'
  regex_flag: 'none' # Optional. Specify the flag for Regex. default is 'i', to_
  → disable default use 'none'
  key: 'name' # Optional. If checking an array of objects, this specifies the key to_
  → check.
```

Supported Events:

'pull_request.*', 'pull_request_review.*', issues.*'

2.3 Validators

Validators are checks that mergeable will process in order to determine whether an action should be executed.

Note: Each validator have certain events that it can support, so keep an eye out for them.

Hint: Don't see an validator that should be on here? Let us know by creating an issue on github

Validator List

2.3.1 Age

```
- do: age // validate based on the age of PR
created_at:
    days: 1
    message: 'PR needs to at least 1 day old in order to merge' # optional, custom_
    →message to display if the validation fails
    updated_at:
    days: 1
    message: 'PR needs to be update free for 1 day before merging' # optional, custom_
    →message to display if the validation fails
```

Supported Events:

'pull_request.*', 'pull_request_review.*',

2.3.2 Approvals

```
- do: approvals
 min:
   count: 2 # Number of minimum reviewers. In this case 2.
  message: 'Custom message...'
 required:
  reviewers: [ user1, user2 ] # list of github usernames required to review
  owners: true # Optional boolean. When true, the file .github/CODEOWNERS is read.
→and owners made required reviewers
  assignees: true # Optional boolean. When true, PR assignees are made required_
→reviewers.
   requested_reviewers: true # Optional boolean. When true, all the requested_
→ reviewer's approval is required
   message: 'Custom message...'
 block:
   changes_requested: true # If true, block all approvals when one of the reviewers_
\leftrightarrow gave 'changes_requested' review
   message: 'Custom message...'
 limit:
   teams: ['org/team_slug'] # when the option is present, only the approvals from_
→the team members will count
  users: ['user1', 'user2'] # when the option is present, approvals from users in_
→this list will count
   owners: true # Optional boolean. When true, the file .github/CODEOWNER is read_
→and only owners approval will count
 exclude:
   users: ['bot1', 'bot2'] # when the option is present, approvals from users in,
→this list will NOT count
```

Note: in limit options, if more than one sub option is present, the union of the results will be used.

Note: If you receive an error for 'Resource not accessible by integration' for Owners file, it means you haven't given mergeable read file permission

Note: owners file now support teams as well, make sure to use @organization/team-slug format.

Supported Events:

```
'pull_request.*', 'pull_request_review.*'
```

2.3.3 Assignee

```
- do: assignee
max:
    count: 2 # There should not be more than 2 assignees
    message: 'test string' # this is optional
min:
    count: 2 # min number of assignees
    message: 'test string' # this is optional
```

Supported Events:

```
'pull_request.*', 'pull_request_review.*', 'issues.*'
```

2.3.4 Author

```
- do: author
must_include:
    regex: 'user-1'
    message: 'Custom include message...'
must_exclude:
    regex: 'user-2'
    message: 'Custom exclude message...'
team: 'org/team-slug' # verify that the author is in the team
# all of the message sub-option is optional
```

you can use and and or options to create more complex filters

```
- do: author
and:
    - must_exclude:
        regex: 'bot-user-1'
        message: 'Custom message...'
or:
    - must_include:
        regex: 'user-1'
        message: 'Custom message...'
```

```
- must_include:
    regex: 'user-2'
    message: 'Custom message...'
```

you can also nest and and or options

```
- do: author
and:
    - or:
        - must_include:
        regex: 'user-1'
        message: 'Custom message...'
        - must_include:
        regex: 'user-2'
        message: 'Custom message...'
        - must_exclude:
        regex: 'bot-user-1'
        message: 'Custom message...'
```

Supported Events:

'pull_request.*', 'pull_request_review.*'

2.3.5 BaseRef

```
- do: baseRef
must_include:
    regex: 'master|feature-branch1'
    regex_flag: 'none' # Optional. Specify the flag for Regex. default is 'i', to_
    disable default use 'none'
    message: 'Custom message...'
must_exclude:
    regex_flag: 'none' # Optional. Specify the flag for Regex. default is 'i', to_
    disable default use 'none'
    message: 'Custom message...'
    mediaType: # Optional. Required by status.* events to enable the groot preview on_
    some Github Enterprise servers
    previews: 'array'
```

Simple example:

```
- do: baseRef
must_exclude:
   regex: 'master'
   message: 'Merging into repo:master is forbidden'
```

Example with groot preview enabled (for status.* events on some older Github Enterprise servers)

```
- do: baseRef
must_include:
   regex: 'master|main'
   message: 'Auto-merging is only enabled for default branch'
   mediaType:
```

previews: - groot

Supported Events:

'pull_request.*', 'pull_request_review.*', 'check_suite.*', status.*

2.3.6 Change set

```
- do: changeset # validate against the files in the PR
 no_empty:
    enabled: false # Cannot be empty when true.
    message: 'Custom message...'
 must_include:
    regex: 'yarn.lock'
    message: 'Custom message...'
 must_exclude:
    regex: 'package.json'
    message: 'Custom message...'
 begins_with:
    match: 'A String' # or array of strings
    message: 'Some message...'
 ends_with:
    match: 'A String' # or array of strings
    message: 'Come message...'
 min:
     count: 2 # min number of files in a PR
     message: 'Custom message...'
 max:
    count: 2 # max number of files in a PR
    message: 'Custom message...'
 files: # status of files to be included in changeset. If no 'files' option is_
→provided, all files are included.
    added: true # default: false. If true, added files are included.
    modified: false # default: false. If true, modified files are included.
    removed: true # default: false. If true, deleted files are included.
 # note that setting file status sub-options (added, modified, removed) to false is_
\leftrightarrow optional.
 # all of the message sub-option is optional
```

you can use and and or options to create more complex validations

```
- do: changeset # validate against the files in the PR
and:
    - must_include:
        regex: 'doc/.*'
        message: 'Custom message...'
    - must_include:
        regex: 'changelog.md'
        message: 'Custom message...'
or:
    - must_include:
        regex: 'package-lock.json'
        message: 'Custom message...'
```

```
- must_include:
    regex: 'yarn.lock'
    message: 'Custom message...'
```

you can also nest and and or options

```
- do: changeset # validate against the files in the PR
and:
    - or:
        - must_include:
            regex: 'package-lock.json'
            message: 'Custom message...'
        - must_include:
            regex: 'package.json'
            message: 'Custom message...'
        - must_include:
            regex: 'yarn.lock'
            message: 'Custom message...'
```

Supported Events:

'pull_request.*', 'pull_request_review.*'

2.3.7 Commit

```
- do: commit
 message:
  regex: '^(feat|docs|chore|fix|refactor|test|style|perf)(\(\w+\))?:.+$'
   message: 'Custom message' # Semantic release conventions must be followed
   skip_merge: true # Optional, Default is true. Will skip commit with message that_
→includes 'Merge'
   oldest_only: false # Optional, Default is false. Only check the regex against the_
→oldest commit
  newest_only: false # Optional, Default is false. Only check the regex against the_
→newest commit
   single_commit_only: false # Optional, Default is false. only process this_
→validator if there is one commit
   message_type: '' # Optional, only check regex against the field specified._
→Default is '', which processes the 'message' field. Can also be set to 'author_email

→ ' or 'committer_email'

 jira:
   regex: '[A-Z][A-Z0-9]+-\d+'
   regex_flag: none
   message: 'The Jira ticket does not exist'
```

Supported Events:

'pull_request.*', 'pull_request_review.*'

2.3.8 Contents

```
- do: contents
 files: # determine which files contents to validate
   pr_diff: true # If true, validator will grab all the added and modified files in.
\hookrightarrow the head of the PR
   ignore: ['.github/mergeable.yml'] # Optional, default ['.github/mergeable.yml'],...
↔ pattern of files to ignore
 must_include:
    regex: 'yarn.lock'
    message: 'Custom message...'
 must_exclude:
    regex: 'package.json'
    message: 'Custom message...'
 begins_with:
    match: 'A String' # or array of strings
    message: 'Some message...'
 ends_with:
    match: 'A String' # or array of strings
    message: 'Come message...'
```

Supported Events:

'pull_request.*', 'pull_request_review.*'

2.3.9 Dependent

Validates that the files specified are all part of a pull request (added or modified).

```
    - do: dependent
files: ['package.json', 'yarn.lock'] # list of files that are dependent on one_
→another and must all be part of the changes in a PR.
message: 'Custom message...' # this is optional, a default message is used when not_
→specified.
```

Alternatively, to validate dependent files only when a specific file is part of the pull request, use the changed option:

```
- do: dependent
    changed:
    file: package.json
    files: ['package-lock.json', 'yarn.lock']
    message: 'Custom message...' # this is optional, a default message is used when_
    onot specified.
```

The above will validate that both the files package-lock.json and yarn.lock is part of the modified or added files if and only if package.json is part of the PR.

Supported Events:

```
'pull_request.*', 'pull_request_review.*'
```

2.3.10 Description

```
- do: description
no_empty:
    enabled: false # Cannot be empty when true.
```

```
message: 'Custom message...' # this is optional, a default message is used when_
→not specified.
 must_include:
    regex: '### Goals|### Changes'
    regex_flag: 'none' # Optional. Specify the flag for Regex. default is 'i', to.
→disable default use 'none'
    message: >
     Please describe the goals (why) and changes (what) of the PR.
   # message is is optional, a default message is used when not specified.
 must_exclude:
    regex: 'DO NOT MERGE'
    regex_flag: 'none' # Optional. Specify the flag for Regex. default is 'i', to_
→ disable default use 'none'
    message: 'Custom message...' # optional
 begins with:
    match: '### Goals' # or array of strings
    message: 'Some message...' #optional
 ends_with:
    match: 'Any last sentence' # array of strings
    message: 'Come message...' # optional
 jira:
   regex: '[A-Z][A-Z0-9]+-\d+'
   regex_flag: none
   message: 'The Jira ticket does not exist'
```

you can use and and or options to create more complex validations

```
- do: description
and:
    - must_include:
        regex: '### Goals'
        message: 'Custom message...'
    - must_include:
        regex: '### Changes'
        message: 'Custom message...'
or:
    - must_include:
        regex: '### Bug Description'
        message: 'Custom message...'
    - must_include:
        regex: '### Feature Description'
        message: 'Custom message...'
```

you can also nest and and or options

```
- do: description
and:
    - or:
    - must_include:
        regex: '### Bug Description'
        message: 'Custom message...'
    - must_include:
        regex: '### Feature Description'
        message: 'Custom message...'
    - must_include:
        regex: '### Changes'
        message: 'Custom message...'
```

Supported Events:

```
'pull_request.*', 'pull_request_review.*', 'issues.*'
```

2.3.11 HeadRef

```
- do: headRef
must_include:
    regex: 'feature-branch1'
    regex_flag: 'none' # Optional. Specify the flag for Regex. default is 'i', to_
    disable default use 'none'
    message: 'Custom message...'
must_exclude:
    regex: 'feature-branch2'
    regex_flag: 'none' # Optional. Specify the flag for Regex. default is 'i', to_
    disable default use 'none'
    message: 'Custom message...'
    jira:
    regex: '[A-Z][A-Z0-9]+-\d+'
    regex_flag: none
    message: 'The Jira ticket does not exist'
```

Simple example:

Supported Events:

'pull_request.*', 'pull_request_review.*'

2.3.12 Label

```
- do: label
 no_empty:
    enabled: false # Cannot be empty when true.
    message: 'Custom message...'
 must_include:
    regex: 'type|chore|wont'
    regex_flag: 'none' # Optional. Specify the flag for Regex. default is 'i', to.
→disable default use 'none'
    message: 'Custom message...'
 must_exclude:
    regex: 'DO NOT MERGE'
    regex_flag: 'none' # Optional. Specify the flag for Regex. default is 'i', to.
→ disable default use 'none'
    message: 'Custom message...'
 begins_with:
    match: 'A String' # or array of strings
    message: 'Some message...'
```

```
ends_with:
    match: 'A String' # or array of strings
    message: 'Come message...'
jira:
    regex: '[A-Z][A-Z0-9]+-\d+'
    regex_flag: none
    message: 'The Jira ticket does not exist'
# all of the message sub-option is optional
```

```
- do: label
and:
    - must_include:
        regex: 'big|medium|small'
        message: 'Custom message...'
    - must_include:
        regex: 'type|chore|wont'
        message: 'Custom message...'
or:
    - must_include:
        regex: 'Ready to merge'
        message: 'Custom message...'
    - must_include:
        regex: 'Do NOT MERGE'
        message: 'Custom message...'
```

you can also nest and and or options

```
- do: label
and:
    - or:
    - must_include:
        regex: 'feat|fix|chore'
        message: 'Custom message...'
    - must_include:
        regex: 'major|minor|patch'
        message: 'Custom message...'
    - must_include:
        regex: 'Ready to merge'
        message: 'Custom message...'
```

Supported Events:

'pull_request.*', 'pull_request_review.*', 'issues.*'

2.3.13 Milestone

```
- do: milestone
no_empty:
    enabled: true # Cannot be empty when true.
    message: 'Custom message...'
must_include:
    regex: 'type|chore|wont'
    regex_flag: 'none' # Optional. Specify the flag for Regex. default is 'i', to_
->disable default use 'none'
```

```
message: 'Custom message...'
 must exclude:
    regex: 'DO NOT MERGE'
    regex_flag: 'none' # Optional. Specify the flag for Regex. default is 'i', to_
→disable default use 'none'
    message: 'Custom message...'
 begins_with:
    match: 'A String' # array of strings
    message: 'Some message...'
 ends_with:
   match: 'A String' # array list of strings
    message: 'Come message...'
 jira:
   regex: '[A-Z][A-Z0-9]+-\d+'
  regex_flag: none
  message: 'The Jira ticket does not exist'
 # all of the message sub-option is optional
```

```
- do: milestone
```

```
and:
    - must_include:
        regex: 'V1'
        message: 'Custom message...'
    - must_include:
        regex: 'October'
        message: 'Custom message...'
or:
    - must_include:
        regex: 'V2'
        message: 'Custom message...'
    - must_include:
        regex: 'Non breaking Changes'
        message: 'Custom message...'
```

you can also nest and and or options

```
- do: milestone
and:
    - or:
    - must_include:
        regex: 'V1'
        message: 'Custom message...'
    - must_include:
        regex: 'September'
        message: 'Custom message...'
    - must_include:
        regex: 'V2'
        message: 'Custom message...'
```

Note: When a closing keyword is used in the description of a pull request. The annotated issue will be validated against the conditions as well.

Supported Events:

'pull_request.*', 'pull_request_review.*', 'issues.*'

2.3.14 Project

```
- do: project
  must_include:
    regex: 'type|chore|wont'
    message: 'Custom message...'
```

Note: When a closing keyword is used in the description of a pull request. The annotated issue will be validated against the conditions as well.

Supported Events:

```
'pull_request.*', 'pull_request_review.*', 'issues.*'
```

2.3.15 Size

size validates that the size of changes in the pull request conform to a specified limit. We can pass in three options: total, additions or deletions. Each of this take in a count and message. Validates that the files specified are all part of a pull request (added or modified).

```
- do: size
lines:
    total:
        count: 500
        message: Change is very large. Should be under 500 lines of additions and_
    • deletions.
        additions:
        count: 250
        message: Change is very large. Should be under 250 lines of additions
        deletions:
        count: 500
        message: Change is very large. Should be under 250 lines of deletions.
        ignore_comments: false #if true, comments will not be counted toward the lines_
        • count
```

max is an alias for total, so the below configuration is still valid.

Warning: currently ignore_comments feat only works with '.js' and '.py' extensions, if you have request for more file extensions please create a ticket here

```
- do: size
lines:
    max:
        count: 500
        message: Change is very large. Should be under 500 lines of additions and_
        ↔deletions.
```

It also supports an ignore or match setting to allow excluding or including certain files from the total size (e.g. for ignoring automatically generated files that increase the size a lot).

This option supports glob patterns, so you can provide either the path to a specific file or ignore whole patterns:

In case both match and ignore are specified, the match filters are applied first.

Note that the glob functionality is powered by the minimatch library. Please see their documentation for details on how glob patterns are handled and possible discrepancies with glob handling in other tools.

The size validator currently excludes from the size count any files that were completely deleted in the PR.

Supported Events:

'pull_request.*', 'pull_request_review.*'

2.3.16 Stale

```
- do: stale
 days: 20 # number of days ago.
 type: pull_request, issues # what items to search for.
 ignore_drafts: true # if set to true, the stale check will ignore draft items
 ignore_milestones: true # if set to true, the stale check will ignore items that_
→have an associated milestone
 ignore_projects: true # if set to true, the stale check will ignore items that have,
→an associated project
 label: # optional property to filter the items that are actioned upon
   match: ['label1_to_match', 'label2_to_match'] # only items with matching labels_
↔ will be actioned upon and marked as stale
   ignore: ['label1_to_ignore', 'label2_to_ignore'] # items with these labels will,
→ be ignored and not marked as stale
time_constraint: # Optional, run the validator only if it in within the time.
⇔ const raint
   time_zone: 'America/Los_Angeles' # Optional, UTC time by default, for valid_
⇔timezones see `here <https://momentjs.com/timezone/>`_
   hours_between: ['9', '17'] # Optional, 24 hours by default, run only if [0] >=__
↔Hour Now <= [1]
   days_of_week: ['Mon', 'Tue', 'Wed', 'Thu', 'Fri'] # Optional, 7 days a week by_
→default, specific the days of the week in which to run the validator
```

Note: This is a special use case. The schedule event runs on an interval. When used with stale, it will search for issues and/or pull request that are n days old. See a full example »

Supported Events:

'schedule.repository'

2.3.17 Title

```
- do: title
 no_empty:
    enabled: true # Cannot be empty when true. A bit redundant in this case since.
→ GitHub don't really allow it. :-)
   message: 'Custom message...'
 must_include:
    regex: 'doc|feat|fix|chore'
    regex_flag: 'none' # Optional. Specify the flag for Regex. default is 'i', to.
→disable default use 'none'
    message: 'Custom message...'
 must_exclude:
    regex: 'DO NOT MERGE | WIP'
    regex_flag: 'none' # Optional. Specify the flag for Regex. default is 'i', to_
→disable default use 'none'
    message: 'Custom message...'
 begins_with:
    match: ['doc','feat','fix','chore']
    message: 'Some message...'
 ends_with:
    match: 'A String' # or array of strings
    message: 'Come message...'
    # all of the message sub-option is optional
 jira:
   regex: '[A-Z][A-Z0-9]+-\d+'
   regex_flag: none
   message: 'The Jira ticket does not exist'
```

```
- do: title
and:
    - must_include:
        regex: 'ISSUE-\d+'
        message: 'Custom message...'
    - must_include:
        regex: 'type:.+'
        message: 'Custom message...'
or:
    - must_include:
        regex: 'feat|chore|fix'
        message: 'Custom message...'
    - must_include:
        regex: 'major|minor|patch'
        message: 'Custom message...'
```

you can also nest and and or options

```
- do: title
and:
    - or:
    - must_include:
        regex: 'feat|fix|chore'
        message: 'Custom message...'
        - must_include:
        regex: 'major|minor|patch'
        message: 'Custom message...'
        - must_include:
```

```
regex: 'ISSUE-\d+'
message: 'Custom message...'
```

Supported Events:

```
'pull_request.*', 'pull_request_review.*', 'issues.*'
```

2.4 Options

These Options are used with validators.

Options List

2.4.1 Boolean

boolean can be used to validate if the input is exactly true or false. This does not pass truthy values.

For example, if the *pull_request.draft* value is *false*:

```
{
   "action": "opened",
   "number": 2,
   "pull_request": {
      "draft": false
```

This will pass validation, because the value of *draft* exactly matches *false*:

```
- do: payload
  pull_request:
    draft:
    boolean:
    match: false
    message: 'Custom message...' # this is optional, a default message is used_
    when not specified.
```

Param	Description	Required	Default I	Message
match	Bool value to check for	Yes		
message	Message to show if the validation fails	No	The NAME] [match]	[INPUT must be

Supported Filters:

'payload'

2.4.2 BeginsWith

begins_with can be used to validate inputs if begin with given string

```
- do: milestone
begins_with:
    match: 'A String' # array of strings
    message: 'Some message...'
```

Table 2:	Supported Params
----------	------------------

Param	Description	Required	Default Message
match	message to validate input with	Yes	
message	Message to show if the validation fails	No	[INPUT NAME] must begins with [MATCH]

Supported Validators:

```
'changeset', 'content', 'description', 'label', 'milestone', 'title'
```

2.4.3 EndsWith

ends_with can be used to validate inputs if end with given string

```
- do: milestone
ends_with:
   match: 'A String' # array of strings
   message: 'Some message...'
```

Table 3:	Supported Params
----------	------------------

Param	Description	Required	Default Message
match	message to validate input with	Yes	
message	Message to show if the validation fails	No	[INPUT NAME] must ends with [MATCH]

Supported Validators:

```
'changeset', 'content', 'description', 'label', 'milestone', 'title'
```

2.4.4 Jira

jira can be used to validate inputs string in Atlassian Jira with APIs

Note: This option work in self-hosted version only.

Env	Description	Required	Default
JIRA_PASSWORD	Password to authenticate with JIRA	Yes	
JIRA_USERNAME	Username to authenticate with JIRA	Yes	
JIRA_HOST	Host to authenticate with JIRA	yes	
JIRA_PROTOCOL	Protocol to establish connection with JIRA	no	https
JIRA_VERSION	JIRA API Version to use	no	2
JIRA_STRICT_SSL	Force SSL while establishing connection	no	yes

Table 4: Required Environment Variable
--

```
- do: headRef
    jira:
    regex: '[A-Z][A-Z0-9]+-\d+'
    regex_flag: none
    message: 'The Jira ticket does not valid'
```

Table 5: S	Supported Params
------------	------------------

Param	Description	Required	Default Message
regex	Regex enabled message to validate input with	Yes	
message	Message to show if the validation fails	No	[INPUT NAME] does not include [REGEX]
regex_flag	Regex flag to be used with regex param to validate inputs	No	i

Supported Validators:

```
'commit', 'description', 'headRef', 'label', 'milestone', 'title'
```

2.4.5 Max

max can be used to validate inputs length that is no more than given integer.

```
- do: assignee
max:
    count: 2 # There should not be more than 2 assignees
    message: 'test string' # this is optional
```

Table 6: Supported Params

Param	Description	Required	Default Message
count	number to validate input's length	Yes	
message	Message to show if the validation fails	No	[INPUT NAME] count is more than [COUNT]

Supported Validators:

```
'approvals', 'assignee', 'changeset', 'label'
```

2.4.6 Min

min can be used to validate inputs length that isn't less than given integer.

```
- do: assignee
min:
    count: 2 # There should be more than 2 assignees
    message: 'test string' # this is optional
```

Table 7: Supported Params

Param	Description	Required	Default Message
count	number to validate input's length	Yes	
message	Message to show if the validation fails	No	[INPUT NAME] count is less than [COUNT]

Supported Validators:

```
'approvals', 'assignee', 'changeset', 'label', 'size'
```

2.4.7 MustInclude

must_include can be used to validate input that includes the given regex supported message.

You can also use an array of regex matchers. If any of them match, the validation will pass.

```
- do: headRef
must_include:
regex:
    " ^ feature"
    " ^ hotfix"
    " ^ "^fix"
message: |
    Your pull request doesn't adhere to the branch naming convention described <a_
$\theref="some link">there</a>!k
```

Param	Description	Required	Default Message
regex	Regex or array enabled message to validate input with	Yes	
message	Message to show if the validation fails	No	[INPUT NAME] does not include [REGEX]
regex_flag	Regex flag to be used with regex param to validate inputs	No	i

Table 8:	Supported	Params
----------	-----------	--------

Supported Validators:-

2.4.8 MustExclude

must_exclude can be used to validate input that excludes the given regex supported message.

You can also use an array of regex matchers. If any of them match, the validation will fail.

Param	Description	Required	Default Message
regex	Regex or array enabled message to validate input with	Yes	
message	Message to show if the validation fails	No	[INPUT NAME] does not include [REGEX]
regex_flag	Regex flag to be used with regex param to validate inputs	No	i

Supported Validators:-

2.4.9 NoEmpty

no_empty can be used to validate if input is not empty

```
- do: description
no_empty:
    enabled: false # Cannot be empty when true.
    message: 'Custom message...' # this is optional, a default message is used when_
onot specified.
```

Param	Description	Required	Default I	Message
enabled	Bool value to enable/disable the option	Yes		
message	Message to show if the validation fails	No	The NAME]	[INPUT can't be
			NAME] empty	can't

Supported Validators:

'changeset', 'description', 'label', 'milestone', 'title'

2.4.10 Required

required can be used to validate if input meets the conditions given with params

```
- do: approvals
required:
    reviewers: [ user1, user2 ] # list of github usernames required to review
    owners: true # Optional boolean. When true, the file .github/CODEOWNERS is read.
    →and owners made required reviewers
    assignees: true # Optional boolean. When true, PR assignees are made required_
    →reviewers.
    requested_reviewers: true # Optional boolean. When true, all the requested_
    →reviewer's approval is required
    message: 'Custom message...'
```

Param	Description	Required	Default Message
reviewers	An array value for github users/teams to be	No	[]
	required to do the validation		
owners	The file .github/CODEOWNERS is read	No	[]
	and owners made required reviewers		
assignees	PR assignees are made required reviewers.	No	[]
requested_reviewers	All the requested reviewer's approval is re-	No	[]
	quired		
message	Message to show if the validation fails	No	[INPUT NAME]
			does not include
			[REGEX]

Table 11:	Supported Params
-----------	------------------

Supported Validators:

'approvals'

2.5 Operators

These operators can help create more complex logic of validations

Operator List

2.5.1 And

And, Or, and Not can be used to create more complex validation/filter check

```
filter:
  - do: and
  filter:
    - do: author
    must_include: 'user-1'
    - do: repository
    visibility: public
validate:
    - do: and
    validate:
    - do: title
        begins_with: '[WIP]'
    - do: label
        must_include: 'Ready to Merge'
```

you can also create nested And, Or, and Not

```
filter:
 - do: and
   filter:
     - do: or
       filter:
         - do: author
           must_include: 'user-1'
         - do: author
           must_include: 'user-2'
     - do: repository
       visibility: public
validate:
 - do: and
   validate:
      - do: or
       validate:
          - do: title
           begins_with: 'feat:'
         - do: label
           must_include: 'feature'
      - do: label
       must_include: 'Ready to Merge'
```

2.5.2 Or

And, Or, and Not can be used to create more complex validation/filter check

```
filter:
  - do: or
  filter:
    - do: author
    must_include: 'user-1'
    - do: repository
    visibility: public
validate:
```

```
- do: or
validate:
    - do: title
    begins_with: '[WIP]'
    - do: label
    must_include: 'Ready to Merge'
```

you can also create nested And, Or, and Not

```
filter:
 - do: and
   filter:
     - do: or
       filter:
         - do: author
           must_include: 'user-1'
          - do: author
           must_include: 'user-2'
      - do: repository
       visibility: public
validate:
 - do: and
   validate:
     - do: or
       validate:
         - do: title
           begins_with: '[WIP]'
         - do: label
           must_include: '[WIP]'
      - do: label
       must_include: 'DO NOT MERGE'
```

2.5.3 Not

And, Or, and Not can be used to create more complex validation/filter check

```
filter:
  - do: not
    filter:
        - do: author
        must_include: 'user-1'
        - do: repository
        visibility: public
validate:
        - do: not
        validate:
        - do: title
        begins_with: '[WIP]'
        - do: label
        must_include: 'Ready to Merge'
```

you can also create nested And, Or, and Not

filter: - do: not

```
filter:
      - do: or
       filter:
         - do: author
           must_include: 'user-1'
          - do: author
           must_include: 'user-2'
validate:
  - do: and
   validate:
     - do: not
       validate:
          - do: title
           begins_with: 'feat:'
          - do: label
           must_include: 'feature'
      - do: label
       must_include: 'Ready to Merge'
```

2.6 Actions

Actions that mergeable is currently able to perform.

Hint: Don't see an action that should be on here? Let us know by creating an issue on github

2.6.1 Assign

```
- do: assign
    assignees: [ 'shine2lay', 'jusx', '@author' ] # only array accepted, use @author_
    ↔for PR/Issue author
```

Supported Events:

```
'pull_request.*', 'issues.*'
```

2.6.2 Check

Note: The logic for whether checks will be added by default is as follows: 1. If no action is provided in either pass, fail or error, add *checks* as default (to be backward compatible) 2. If only actions other than *checks* is provided, don't add check as default (to support cases where checks are not wanted) 3. If checks is a part of the actions provided, all pass, fail and error cases will have *checks* (to prevent case where a check is hanged and never finish processing)

```
title: 'Mergeable Run have been Completed!'
summary: "All the validators have returned 'pass'! \n Here are some stats of the_
→run: \n {{validationCount}} validations were ran"
```

You can pass in Handlebars template to show the details result of the run.

```
- do: checks # default fail case
 status: 'failure' # Can be: success, failure, neutral, cancelled, timed_out, or_
→action_required
 payload:
   title: 'Mergeable Run have been Completed!'
   summary: |
        ### Status: {{toUpperCase validationStatus}}
             Here are some stats of the run:
             {{validationCount}} validations were ran.
             {{passCount}} PASSED
             {{failCount}} FAILED
   text: "{{#each validationSuites}}\n
         #### {{{statusIcon status}}} Validator: {{toUpperCase name}}\n
         {{#each validations }} * {{{statusIcon status}}} ***{{{ description }}}***\n
                Input : {{{details.input}}\n
                Settings : {{{displaySettings details.settings}}\n
                \{ \{ / each \} \} 
         {{/each}}"
```

```
- do: checks # default error case
 status: 'action_required' # Can be: success, failure, neutral, cancelled, timed_out,
↔ or action_required
 payload:
   title: 'Mergeable found some errors!'
   summary: |
       ### Status: {{toUpperCase validationStatus}}
       Some or All of the validators have returned 'error' status, please check.
→below for details
       Here are some stats of the run: \n {{validationCount}} validations were ran.
       {{passCount}} ***PASSED***
       {{failCount}} ***FAILED***
       {{errorCount}} ***ERRORED***
   text: "{{#each validationSuites}}
       #### {{{statusIcon status}}} Validator: {{toUpperCase name}}
       Status {{toUpperCase status}}
       {{#each validations }} * {{{statusIcon status}}} ***{{{ description }}}***
              Input : {{{details.input}}}
              Settings : {{{displaySettings details.settings}}}
              {{#if details.error}}
              Error : {{{details.error}}}
              {{/if}}
              {{/each}}
       {{/each}}"
```

Note: if any of required fields title, summary or status is missing, default values will be used

Note: checks will automatically re-run if the base branch has a modified config file

Supported Events:

The *pull_request.closed* event is not supported since it does not have meaningful use in the context of GitHub check API.

2.6.3 Close

- do: close

Supported Events:

'schedule.repository', 'pull_request.*', 'issues.*'

2.6.4 Comment

```
- do: comment
  payload:
    body: >
    Your very long comment can go here.
    leave_old_comment: true # Optional, by default old comments are deleted, if true,_
    old comments will be left alone
```

Supported Events:

'schedule.repository', 'pull_request.*', 'issues.*'

2.6.5 Merge

```
- do: merge
merge_method: 'merge' # Optional, default is 'merge'. Other options : 'rebase',

   'squash'

   # template variables for next two items come from result of https://docs.github.com/

   en/rest/reference/pulls#get-a-pull-request

   # use triple curly braces to avoid html escaping

   commit_title: '{{{ title }}} (#{{{ number }}})' # Optional, override commit title

   commit_message: '{{ body }}' # Optional, override commit message
```

Supported Events:

'pull_request.*', 'pull_request_review.*', 'status.*', 'check_suite.*'

2.6.6 Labels

You can add, remove, and delete labels with one action.

```
Warning: Using multiple do: labels in the same operation is not idempotent. Use only one labels action per block for accurate labeling.
```

You can add new labels, preserving existing ones

```
- do: labels
   add: 'Ready for Review'
```

You can delete existing labels

```
- do: labels
  delete: [ 'Ready for Review', 'Triage' ]
```

You can replace all current labels with new ones

- do: labels
 replace: ['Triage', 'Needs Deploy']

You can also use any combination of these options. They can be listed in any order, but the action is always evaluated in the order of replace \rightarrow add \rightarrow delete.

```
- do: labels
  replace: [ 'New Task', 'Not Useful' ]
  add: [ 'Work in Progress', 'Needs Deploy' ]
  delete: 'Not Useful'
# result: [ 'New Task', 'Work in Progress', 'Needs Deploy' ]
```

labels and mode

Warning: Using labels with mode is deprecated and will be removed in v3. Use the add, replace, and delete options above for labeling.

You can also add a set of the labels on an item

```
- do: labels
# if label doesn't exist, it'll be created
labels: [ 'Triage' ] # Only arrays are accepted
mode: 'add' # Optional , default is 'add'. Other options : 'replace', 'delete'
```

You can also replace all of the labels on an item with a given set of labels

```
- do: labels
# if label doesn't exist, it'll be created
labels: [ 'Triage' ] # Only arrays are accepted
mode: 'replace' # Replaces all of the labels with the above array of labels
```

You can also delete existing labels on an item and specify glob patterns when the mode is *delete*.

```
- do: labels
# if label doesn't exist, it'll be created
labels: [ 'feature-*' ] # All labels beginning with 'feature-' will be removed
mode: 'delete'
```

Note that the glob functionality is powered by the minimatch library. Please see their documentation for details on how glob patterns are handled and possible discrepancies with glob handling in other tools.

Supported Events:

```
'schedule.repository', 'pull_request.*', 'issues.*'
```

2.6.7 Request Review

You can request specific reviews from specific reviewers, teams, or both

```
- do: request_review
   reviewers: ['name1', 'name2']
   teams: ['developers'] # team names without organization
```

Supported Events:

'pull_request.*'

2.7 Reusable Configuration

YML has a feature called 'Anchor<https://blog.daemonl.com/2016/02/yaml.html>'_ that allows you to create reusable parts in the config

2.8 Organisation-wide defaults

You can specify a default configuration to be applied across your GitHub organisation. This can help reduce how many configuration files you need to maintain and make it easier to get started with Mergeable.

To add a default configuration:

- 1. Create a repository called .github in your organisation.
- 2. Create a file with the path .github/mergeable.yml in this repository.

The final path of the file (including the repo name) should be <YOUR_ORG>/.github/.github/mergeable. yml

Mergeable will now use this file as the default when it cannot find one in a given repository or PR. It determines the file to use in the following order:

- 1. A mergeable.yml inside the PR if the PR originates from the same repository. If it originates from a fork it is not loaded for security reasons. See #406 for more details.
- 2. A mergeable.yml inside the repository the PR is for.
- 3. A mergeable.yml at <YOUR_ORG>/.github/.github/mergeable.yml.

Note: If config file is changed in base branch, all the PR against the base branch will be re ran using the changed config file Warning! this feature require mergeable have read access to contents and needs to be listening for push event

2.8.1 Why the weird default file path?

The Probots library that Mergeable uses automatically searches for config files in a repo named .github within the organisation.

The double nesting of the <YOUR_ORG>/.github/.github/mergeable.yml default file is unfortunately necessary. The GitHub app permissions model only lets you specify a single path for your probot to access, so it must be the same as in regular repositories.

Recipes

3.1 Work In Progress

Prevent accidental merging of Pull Requests that are work in progress by labeling it WIP or prefixing the title with the abbreviation.

```
version: 2
mergeable:
    - when: pull_request.*
    validate:
        - do: title
        must_exclude:
            regex: ^\[WIP\]
        - do: label
        must_exclude:
            regex: 'wip'
```

3.2 No Empty Description

Ensure all Pull Requests have a description so that reviewers have context.

```
version: 2
mergeable:
    - when: pull_request.*
    validate:
        - do: description
        no_empty:
        enabled: true
        message: Description matter and should not be empty. Provide detail with_
        +**what** was changed, **why** it was changed, and **how** it was changed.
```

3.3 Dependent Files

Certain files are related and you want to ensure that they are updated as part of the PR (i.e. if package.json is updated, so should yarn.lock and package-lock.json)

```
version: 2
mergeable:
    - when: pull_request.*
    validate:
        - do: dependent
        changed:
        file: 'package.json' # also supports globs expressions
        required: ['package-lock.json', 'yarn.lock'] # alias: `files` for backward_
        → compatibility
```

3.4 Must Include Milestone

Ensure that all Pull Requests have a milestone associated. Mergeable will also detect when you are 'closing an issue<https://help.github.com/en/github/managing-your-work-on-github/linking-a-pull-request-to-an-issue>'_ that is associated with the specified milestone.

```
version: 2
mergeable:
    - when: pull_request.*
    validate:
        - do: milestone
        must_include:
        regex: Release 1
```

3.5 Small PR Size

Size: Ensure that PRs don't exceed a certain size in terms of lines changed (excluding file patterns specified with ignore).

```
version: 2
mergeable:
    - when: pull_request.*
    validate:
        - do: size
        ignore: ['ignore_me.js', 'ignore_this_directory/*', '**/ignore_this_prefix*.js
        -']
        lines:
            max:
            count: 500
            message: Change is very large. Should be under 500 lines of addtions and_
        --deletions.
```

3.6 Comment If Guidelines not met

Automatically create a comment when a new issue is openened to remind the author when the title does not follow conventions or is missing a label.

```
version: 2
mergeable:
  - when: issues.opened
   validate:
      - do: title
        begins_with:
         match: ['AUTH', 'SOCIAL', 'CORE']
      - do: label
       must_include:
         regex: bug|enhancement
    fail:
      - do: comment
        payload:
          body: >
            The following problems were found with this issue:
              - Title must begin with `AUTH`, `SOCIAL` or `CORE`
              - The issue should either be labeled `bug` or `enhancement`
```

3.7 Check Stale PR and Issues

Detect issues and pull requests that are n days old (stale) and notify authors and collaborators by creating a comment.

```
version: 2
mergeable:
    - when: schedule.repository
    validate:
        - do: stale
        days: 20
        type: pull_request, issues
    pass:
        - do: comment
        payload:
            body: This is old. Is it still relevant?
```

3.8 Greet a new contributor

Add a comment on a pull request when it is created

```
version: 2
mergeable:
    - when: pull_request.opened
    name: "Greet a contributor"
    validate: []
    pass:
        - do: comment
        payload:
```

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```
body: >
    Thanks for creating a pull request! A maintainer will review your changes_
→shortly. Please don't be discouraged if it takes a while.
```

3.9 Auto-merge pull requests once all checks pass

This recipe relies on the fact that the main branch has been protected and only allows merges when the required checks have passed or the required number of reviews/other conditions are met. This basically means that mergeable will merge the pull request as soon as it shows a green merged button on Github.

Notice the blank validator which ensures that the merge event happens as soon as Github allows mergeable to merge the pull request.

```
version: 2
mergeable:
    when: pull_request.*, pull_request_review.*, status.*, check_suite.*
    name: "Automatically merge pull requests once it passes all checks"
    validate: []
    pass:
        - do: merge
        merge_method: "squash"
```

3.10 Approval check + title check if certain files are changed

Add 2 checks to the PR 1. Approval check - Checks whether the PR has been approved by certain people 2. Title should match a regex if certain files are changed. If no changes are made in those files, check should pass

```
version: 2
mergeable:
  - when: pull_request.*, pull_request_review.*
   name: 'Approval check'
    validate:
      - do: approvals
        min:
          count: 1
        limit:
          users: [ 'approverA', 'approverB' ]
  - when: pull_request.*, pull_request_review.*
    name: 'PR title check'
    validate:
      - do: or
        validate:
          - do: changeset
            must_exclude:
              regex: 'some/regex/for/those/certain/files/*'
          - do: and
            validate:
              - do: changeset
                must_include:
                  regex: 'some/regex/for/those/certain/files/*'
```

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```
- do: title
begins_with:
    match: [ 'some prefix' ]
```

3.11 Only run rules if PR is not a draft

Checks that the PR's draft state is false before running actions.

```
version: 2
mergeable:
  - when: pull_request.*, pull_request_review.*
   name: 'Draft check'
   validate:
      - do: payload
        pull_request:
         draft:
            boolean:
              match: false
   pass:
      - do: comment
        payload:
         body: This PR is NOT a draft!
    fail:
      - do: comment
        payload:
          body: This PR is STILL a draft!
```

3.12 Allow commits only if they contain a Issue ID (like an Azure DevOps Work Item)

Checks that the PR's draft state is false before running actions.

```
version: 2
mergeable:
  - when: pull_request.*
    validate:
      - do: commit
        message:
            regex: '^(AB#[0-9]{1,})' #check if all commit messages begin with an AzDO_
\hookrightarrow Work Item
    pass:
      - do: comment
        payload:
          body: >
           <h2>Successfully checked for Azure Work Item IDs in commits</h2>
           <h3>All commits in your PR have Azure Board Work Item IDs. Ready for_
→Review!</h3>
           :+1:
      - do: labels
        add: 'Ready for Review'
    fail:
```

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```
- do: comment
       payload:
         body: >
           :warning:
           <h2>Azure Boards Work Item IDs missing in commits</h2>
           <h3>Some commits messages were found not having the Azure Boards Work_
→Item ID (AB#1234).</h3>
           <h3>We will close this PR for now.</h3>
           <h3>To resolve, please do one of the following</h3>
           Identify your Azure Boards Work Item ID and <a href="https://gist.</pre>
→github.com/nepsilon/156387acf9e1e72d48fa35c4fabef0b4">amend your commits</a>. Then_
\rightarrow re-open the PR
             In case you do not have a Work Item ID to reference, please discuss_
↔with your reviewer(s) for alternate options
           - do: labels
       add: 'Non-Compliant'
     - do: close
```

Contributing

We need your help:

- Have an idea for a new feature? Please create a new issue and tell us!
- Fix a bug, implement a new validator or action and open a pull request!

Note: For development and testing, you'll want to read deploying.

Support

Found a bug? Have a question? Or just want to chat?

- Find us on Gitter.
- Create an Issue.

CHANGELOG

May 12, 2023: fix: Loading teams for team option of author filter/validator #713 May 11, 2023: fix: Send correct payload for changing labels #715 April 25, 2023: feat: Add author validator #710 March 13, 2023: fix: Replace delete with remove in changeset validator #705 March 7, 2023: fix: Extend checks supported events #700 March 1, 2023: feat:Added user information for commit validator #682 February 3, 2023: feat: Add team option to author filter #696 February 3, 2023: chore: Update node version for release workflow #699 February 3, 2023: feat: Add Not operator #695 September 28, 2022: feat: Add last comment validator #668 August 26, 2022: set fallback for no_empty options processor #657 August 25, 2022: fix: set fallback value for description payload #655 August 20, 2022: fix: supported events for *request review* action #651 August 2, 2022: feat: Add newest_only commit validation setting #649 April 7, 2022: feat: Support adding deployment labels from values #631 March 22, 2022: fix: pass comment instance to removeErrorComments #626 February 24, 2022: fix: correct indentation on documentation #623 February 8, 2022: feat: Allow all option on must_include and must_include inside changeset validator #611 February 6, 2022: feat: Add commit title and commit message options to merge action so the merge commit can be customized based on PR content #612 December 12, 2021: feat: Add support for status events to baseRef validator #395 November 25, 2021: feat: Add more supported events to baseRef validator #395 November 12, 2021 : feat: Add baseRef filter #596 October 19, 2021 : feat: Add validator approval option to exclude users #594 October 12, 2021 : feat: Add boolean option for payload filter #583 September 27, 2021 : fix: use node version 14.17.6 for the release action #591 September 25, 2021 : feat: Support for objects in arrays in the payload filter #589 September 20, 2021 : fix: Check that getRouter is defined before attempting to access it #587

August 26, 2021 : fix: Await GithubAPI topics response #585 August 10, 2021 : feat: New labels API #577 August 6, 2021 : feat: Add team assignment to request review action #574 August 6, 2021 : feat: Support must_include and must_exclude regex as an array #575 July 19, 2021 : feat: Add ignore_drafts option to ignore drafts in stale validator #565 July 12, 2021 : feat: Filter specific status of files in changeset #550 June 26, 2021 : feat: Add payload filter #398 March 31, 2021 : feat: add chart support to prometheus servicemonitor #535 March 30, 2021 : fix: codeowners team March 25, 2021 : feat: Add rate limit related metrics/endpoint #526 February 25, 2021 : feat: add feature to limit approval to a list of users #509 February 25, 2021 : fix: minor bugs #508 February 25, 2021 : fix: Correct use of cache env February 22, 2021 : feat: add age validator #367 February 22, 2021 : feat: add a info panel for 'limit' option in approval validator #509 February 21, 2021 : feat: name sub-option for repository filter February 18, 2021 : fix: Scheduler support #499 February 12, 2021 : feat: Implemented redis as a dependency to the helm-chart February 10, 2021 : feat: global cache manager #502 February 10, 2021 : feat: Implement and/or filters support #496 February 10, 2021 : feat: New Author filter #496 January 28, 2021 : feat: global settings feature January 28, 2021 : feat: Filters validators #496 January 21, 2021 : fix: request review action failing when the reviewer is PR author #486 January 20, 2021 : fix: deep validation bug that is causing HttpError #488 January 19, 2021 : feat: Async Options #480 January 19, 2021 : feat: Support use organization-wide configuration as default #470 January 19, 2021 : feat: Jira Validator Option #482 January 17, 2021 : fix: required-status-check bug in merge action January 15, 2021 : feat: add prometheus templates for easy alerting setup January 14, 2021 : fix: validators not running in certain pull request events #431 January 14, 2021 : fix: remove unsupported settings from title, description and milestone validator January 14, 2021 : feat: Allow to have pending checks #454 January 13, 2021 : fix: GH Action workflows for pushing to dockerhub. January 12, 2021 : feat: upgrade probot to v11.0.1 January 8, 2021 : fix: Prevent add comma on last list element January 5, 2021 : fix: Shift fix in team slug pagination January 4, 2021 : feat: GitHub actions #450 December 18, 2020 : feat: Better logs for failures in PR home page without going to details #446 December 17, 2020 : fix: Members in Org listing pagination bug #442 December 17, 2020 : feat: Add docker image build and push #427 December 14, 2020 : feat: Add branch validator #438 December 11, 2020 : feat: Helm Chart implementation for kubernetes #435 December 11, 2020 : feat: Add env to control which configuration file to use #429 October 20, 2020 : feat: Add a config cache which can be enabled via MERGEABLE ENABLE CONFIG CACHE env var #407 October 15, 2020 : feat: Add the ability to auto-merge pull requests #395

October 8, 2020 : feat: added BaseRef-validator to enforce stricter rules on certain branches #343 October 8, 2020 : feat: Do not load modified unsafe config files from forks #406 October 6, 2020 : fix: Size validator - do not ignore hidden files by default #401 October 6, 2020 : Do not attempt to merge a pull request if the status is blocked #389 October 6, 2020 : fix: Fix undefined error with blank validators #402 October 5, 2020 : fix Typo in header of labels action docs and corresponding rst file October 4, 2020 : fix Typo in header of title validator docs October 2, 2020 : Don't throw merge error if required status are the cause of the error #389 September 24, 2020 : Add ability to delete or replace the labels on an issue #380 September 22, 2020 : Allow support for customizing the scheduler interval via an environment variable MERGEABLE_SCHEDULER_INTERVAL #383 September 17, 2020 : Add support for schedule.repository event for 'labels' and close actions #377 September 17, 2020 : Fix the comment action to work correctly with the scheduler #376 September 16, 2020 : Allow specifying files to match for the size validator #371 September 16, 2020 : stale validator now supports optionally skipping items associated with a project or a milestone #375 September 16, 2020 : stale validator now supports labels for match or ignore #372 August 24, 2020: display files processed in size validator #366 August 17, 2020: fix Error string in merge failed error July 28, 2020 : owners file now support teams and limit.owners option added in approvals validator #331 July 12, 2020 : Allow usage of special annotation @author in comments and checks #328 July 1, 2020 : When config file is added/modified in base branch, mergeable will trigger for all PR against the base branch #153 June 30, 2020 : Add ignore_comment option to size validator #245 June 17, 2020 : Added new validator contents #207 June 16, 2020 : Create an error comment if errors have occurred during execution of actions #312 June 5, 2020 : For missing fields in 'checks', default values will be used #233 May 30, 2020 : New Action merge added #201 May 29, 2020: throw UnSupportedSettingError if provided setting is not valid #228 May 29, 2020 : Ability to Limit stale validator to certain days and time #221 May 23, 2020 : Allow PRs/Issues to be assigned to their author by using @author in the assign action May 14, 2020 : Delete obsolete comments by default #157 May 12, 2020 : Limit so that only approval from team members will count, #236 May 6, 2020 : Ability to create multiple checks with named recipe, #225 May 5, 2020: Added ability to configure config file name using CONFIG PATH env variable, #223 April 22, 2020 : readthedoc documentation added, start of CHANGELOG