AUTOMATE ALL THE THINGS

SELF INTRO

- Joshua Kaplan
- minne @ GMO Pepabo
- Danger-Swift contributer
 - Likes

WHY AUTOMATE?

- ► Fewer mistakes
- Increase development speed
 - More efficient
 - More exciting

WHAT AREAS TO AUTOMATE?

- ► Take much time
- ► Take time for multiple people
 - High risk
 - Prone to being forgotten

TOOLS OF THE TRADE

FASTLANE

SWIFILINI

SCRIPTING LANGUAGES

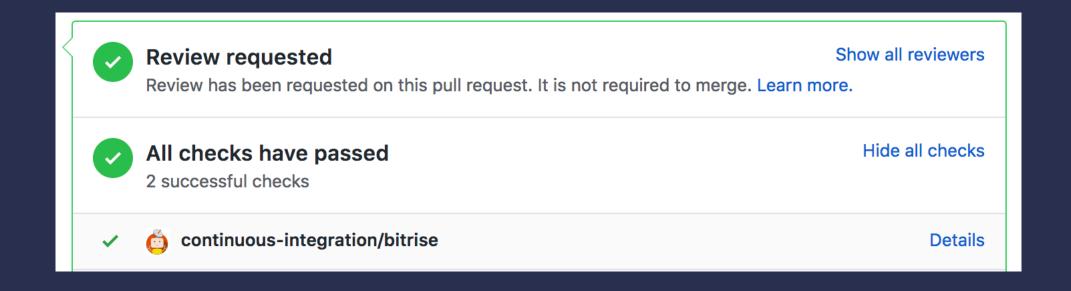
BOTS AND GITHUB APPS

- Probot
- Automatically marking old branches as stale
 - Reminders
 - Delete merged branch
- Marking issues to be closed when PR is merged
 - Updating dependencies automatically

CI IS THE ULTIMATE AUTOMATION TOOL

NORMAL CI FLOW (LEVEL 1)

RUN TESTS FOR

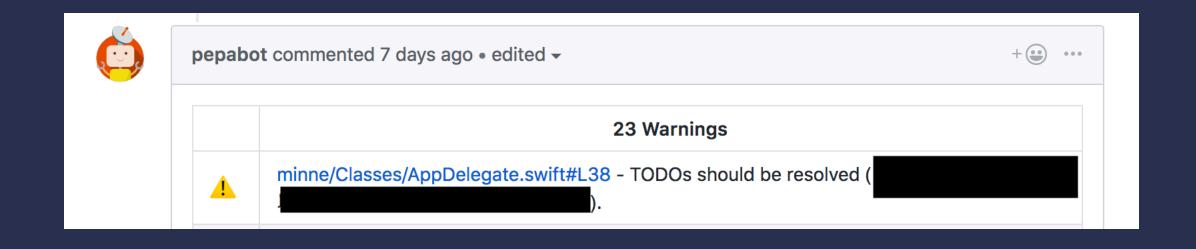


INTERMEDIATE CI FLOW (LEVEL 2)

LINTERS AND OTHER STATIC ANALYSIS

SWIFTLINT + DANGER

swiftlint.lint_files inline_mode: true



ORIGINALSTATIC

SPELL CHECKING



minne/Classes/Controllers/Product/ProductEditViewController.swift#L1247 - タイポかも? Dictinary

```
# タイポを検知する
added_and_modified_files = git.added_files + git.modified_files
added_and_modified_files.each do |file_path|
 next unless file_path =~ /\.swift$/
  stdout, status = Open3.capture2("npx", "cspell", file_path)
 next if status.success?
  stdout.split("\n").each do |line|
    next unless matches = /\w+\.swift:(\d+).*-\sUnknown\sword\s\((\w+)\)/.match(line)
    line_number = matches[1].to_i
    word = matches[2]
    warning = "タイポかも? #{word}"
    warn(warning, file: file_path, line: line_number)
  end
end
```

AUTOMATE PR TASKS

REVIEWERS

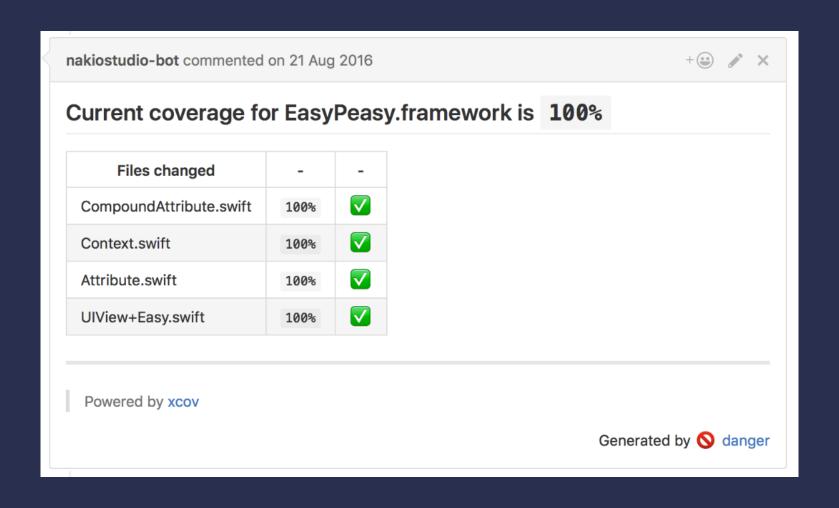
```
# レビュワー指定(コメント指定のためにこれを一番上に書く必要あり)
reviewers = ["user1", "user2", "user3"].reject { |reviewer| reviewer == github.pr_author }
repo_name = github.pr_json["head"]["repo"]["full_name"]
pr_number = github.pr_json["number"]
number_of_comments = github.api.issue_comments(repo_name, pr_number).size
if number_of_comments.zero?
 reviewers = reviewers.sample(2)
 github.api.request_pull_request_review(
   repo_name,
   pr_number,
   {},
   "reviewers": reviewers
end
```

POST CI RESULTS

	1 Error
0	MyWeightTests.MyWeightTests: testError, failed - :w: MyWeightTests/MyWeightTests.swift#L26
	2 Warnings
1	MyWeight/ViewController.swift#L35: initialization of immutable value 'bla' was never used; consider replacing with assignment to '_' or removing it let bla = "unused variable"
1	Bla.m#L32: Value stored to 'theme' is never read theme = *ptr++;
	1 Message
	Executed 5 tests, with 1 failure (0 unexpected) in 0.032 (0.065) seconds

```
# Xcode Summary
build_report_file = 'build_results.json'
xcode_summary.ignored_files = 'Pods/**'
xcode_summary.ignores_warnings = true
xcode_summary.inline_mode = true
xcode_summary.report build_report_file
```

GOVERAGE



```
xcov.report(
   scheme: 'minne',
   workspace: 'minne.xcworkspace',
   exclude_targets: 'TodayExtension.appex, NotificationServiceExtension.appex, MinneKit.framework',
)
```

CHECK FOR DEAD



```
def get dead objc code
  std_out, status = Open3.capture2("bundle", "exec", "fui", "--ignorexib", "--path", "minne/Classes")
 # fuiのexitstatusは、使われていないクラスの数で、
 # Bridging-Headerが必ず当たってしまうので、
 # 2つ以上の結果がある場合通知している。
 return status.exitstatus >= 2 ? std_out : ""
end
def get_dead_swift_code
  std_out, _ = Open3.capture2("periphery", "scan")
  r = /minne.*(Struct|Class) .*is unused$/
  filtered_results_array = std_out.to_enum(:scan,r).map {$&}.flatten
 return filtered_results_array.join("\n")
end
# Main
dead_objc_result = get_dead_objc_code
dead_swift_result = get_dead_swift_code
mention = "<!subteam^S1DDSFQSF|minne-ios>"
message = "#{mention}, Unused files exist:\n"
notify_slack(message + dead_objc_result) unless dead_objc_result == ""
notify_slack(message + dead_swift_result) unless dead_swift_result == ""
```

CUSTOM LINTER RULES

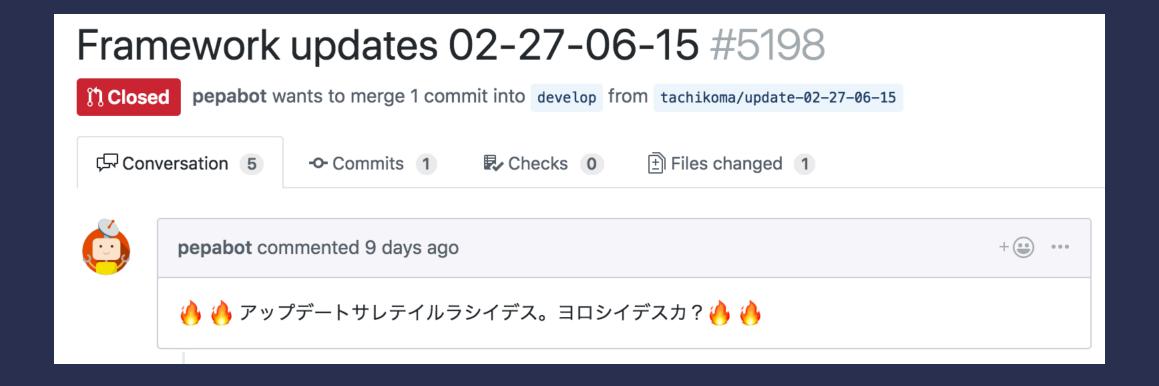
```
prefer_gregorian_calendar:
    name: "Gregorian Calendar"
    regex: "Calendar\\.current"
    message: "Please use `Calendar(identifier: .gregorian)` to avoid Japanese calendar-related bugs"
    severity: error
https_only:
    name: "HTTPS Only"
    match_kinds:
        - string # コメントなどを無視して、文字列のみをみる
    regex: "http:"
    message: "Please use HTTPS due to security policy"
    severity: error
```

ADVANCED CI FLOW (LEVEL 3)

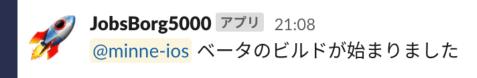
RUNTIME ANALYSIS AND INTEGRATION

- Checking for thread issues (thread sanitizer)
 - Checking for memory leaks
 - Performance tests

AUTOMATIC DEPENDENCY UPDATES



DEPLOYMENT





JobsBorg5000 アプリ 21:26

ジャンプ

@minne-ios

minne betaが 9.23.0.1.6549 としてTestFlightへアップロードされましたので、検証よろしくお願いします。(反映後通知されます)

また、リリースノートをまだ書いていない場合はリリースノートを書いていただくよう、お願いします~



JobsBorg5000 アプリ 21:44

ジャンプ

@minne-ios 9.23.0.1、App Connectにアップロードし、現在処理中です。

@minne-product-directors 概要の更新をお願いします

SPEED OPTIMIZATION

CACHING

PARALLELIZATION

CONCLUSION

"LIQUID SOFTWARE"