

**AUTOMATE ALL THE THINGS**

# SELF INTRO

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- ▶ minne @ GMO Pepabo
- ▶ Danger-Swift contributor
  - ▶ 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**



**DANGER**

**SWIFTLINT**

# 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  
EACH PR**






**Review requested**

Review has been requested on this pull request. It is not required to merge. [Learn more.](#)


[Show all reviewers](#)




**All checks have passed**

2 successful checks

[Hide all checks](#)



 **continuous-integration/bitrise**

[Details](#)

# INTERMEDIATE CI FLOW (LEVEL 2)

# LINTERS AND OTHER STATIC ANALYSIS

# SWIFTLINT + DANGER

```
swiftlint.lint_files inline_mode: true
```



pepabot commented 7 days ago • edited ▾



### 23 Warnings



[minne/Classes/AppDelegate.swift#L38](#) - TODOs should be resolved (  
[REDACTED]).

# ORIGINAL STATIC ANALYSIS

# SPELL CHECKING



[minne/Classes/Controllers/Product/ProductEditViewController.swift#L1247](#) - タイポかも？  
Dictionary



```
# 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

# ASSIGN REVIEWERS





```
# レビューワー指定（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
	<b>MyWeightTests.MyWeightTests:</b> testError, failed - :w: <a href="#">MyWeightTests/MyWeightTests.swift#L26</a>
	2 Warnings
	<b><a href="#">MyWeight/ViewController.swift#L35</a>:</b> initialization of immutable value ‘bla’ was never used; consider replacing with assignment to ‘_’ or removing it <pre>let bla = "unused variable"</pre>
	<b><a href="#">Bla.m#L32</a>:</b> Value stored to ‘theme’ is never read <pre>theme = *ptr++;</pre>
	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
```

# POST CODE COVERAGE




nakiostudio-bot commented on 21 Aug 2016

+ 😊 ✎ ✕

Current coverage for EasyPeasy.framework is **100%**

Files changed	-	-
CompoundAttribute.swift	100%	✓
Context.swift	100%	✓
Attribute.swift	100%	✓
UIView+Easy.swift	100%	✓

Powered by [xcov](#)

Generated by  [danger](#)

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

**CHECK FOR DEAD  
CODE**



コードの死神 アプリ 11:00

@minne-ios, Unused files exist:  
OtherFiles/MICollectionView.h

```

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

# Framework updates 02-27-06-15 #5198

 **Closed** pepabot wants to merge 1 commit into `develop` from `tachikoma/update-02-27-06-15`

-  Conversation 5
-  Commits 1
-  Checks 0
-  Files changed 1



pepabot commented 9 days ago

+  ...

🔥 🔥 アップデートサレテイルラシイデス。ヨロシイデスカ？ 🔥 🔥

# DEPLOYMENT



**JobsBorg5000** アプリ 21:08

@minne-ios ベータのビルドが始まりました



**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、リリースノートを書き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

```
lane :release do
  capture_screenshots          # generate new screenshots for the App Store
  sync_code_signing(type: "appstore") # see code signing guide for more information
  build_app(scheme: "MyApp")
  upload_to_app_store          # upload your app to App Store Connect
  slack(message: "Successfully uploaded a new App Store build")
end
```



# SPEED OPTIMIZATION

# CACHING

# PARALLELIZATION

# CONCLUSION

**"LIQUID SOFTWARE"**