

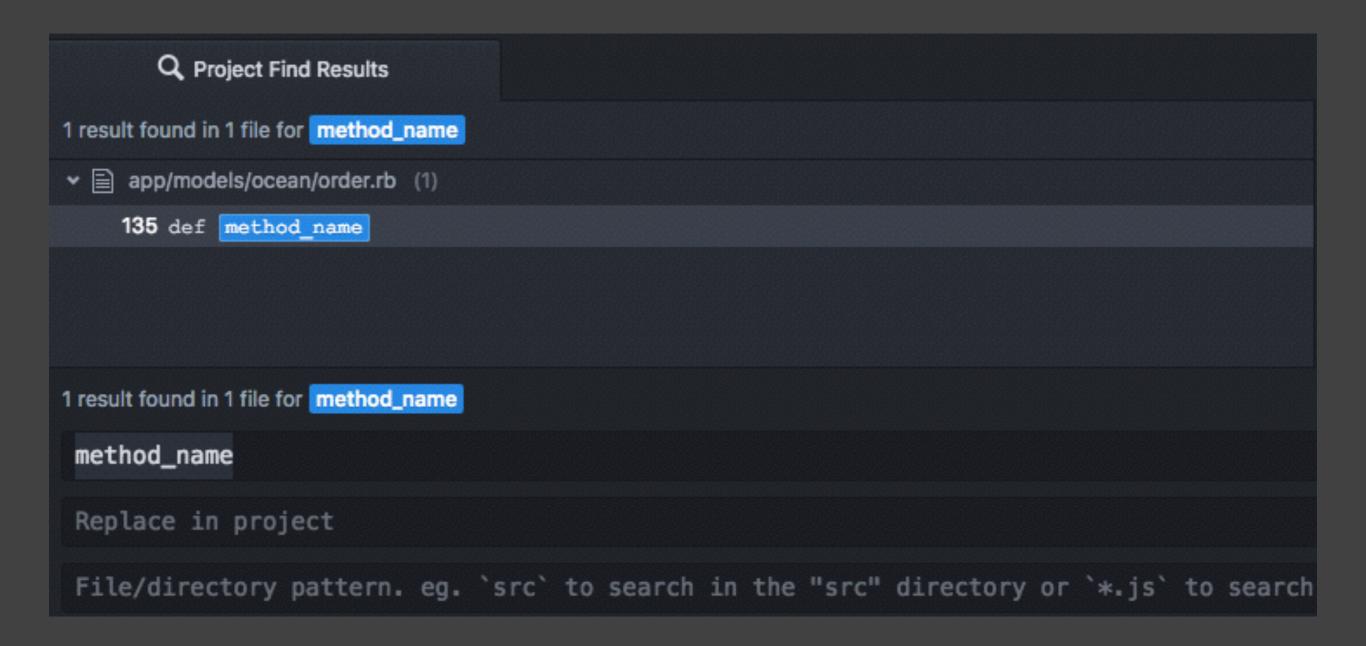
Killing dead code

NIKA JUKIĆ

DEAD CODE = UNREACHABLE CODE

IS ALL YOUR CODE REACHABLE?

BEEN THERE, DONE THAT



WHEN DOES THIS HAPPEN?

- Refactoring
- Getting to know a new project

"Where the hell is this used?"

CAN WE AUTOMATE IT?

UNUSED

https://unused.codes/

https://github.com/joshuaclayton/unused

WHAT IS UNUSED?

A command line tool to identify unused code.

HOW IT WORKS?

STEP ONE

Ctags generates index (tag) file of language objects

WHAT IS CTAGS?

- generates an index file of language objects in source files
- quickly and easily located

HOW IT WORKS?

STEP TWO

Silver Searcher searches codebase for each occurrence

HOW IT WORKS?

STEP THREE

Classification of occurrences into different buckets

INSTALLATION

- \$ brew tap joshuaclayton/formulae
- \$ brew install unused

HOW TO USE IT?

1. Generate tags file

```
$ git ls-files | xargs ctags -f
tmp/tags
```

2. Put it in .gitignore

3. Run unused

```
$ unused -a
$ unused -s (for single
occurrences only)
```

FRAMEWORK BASED ASSUMPTIONS

- controllers referenced from routes
- having only one reference:
 - Controllers in Rails
 - Views in Phoenix
- additional config

ADDITIONAL CONFIG FILE

~/.unused.yml

```
- name: Rails
 # Collection of matches allowed to have one occurrence
  autoLowLikelihood:
    - name: ActiveModel::Serializer
      classOrModule: true
      termEndsWith: Serializer
      termStartsWith: with_
      termEquals: ApplicationController
      pathEndsWith: _factory.ex
      pathStartsWith: app/policies
      allowedTerms:
      - index?
      - edit?
      - create?
```

CONFIG EXAMPLE

~/.unused.yml

name: Rails
 # Collection of matches allowed to have one occurrence autoLowLikelihood:
 name: ActiveModel::Serializer classOrModule: true

termEndsWith: Serializer

- name: Pundit Helpers
allowedTerms:

- index?

- edit?

- create?

- name: Decorators
pathStartsWith: app/decorators

Be confident the code you're removing won't break your program.

- UNUSED

Finished in 5 minutes 17 seconds (files took 22.33 seconds to load) 1149 examples, 542 failures, 18 pending

SUMMARY

RECOMMENDED FOR

- Bigger and older projects
- Projects with many developers working on it

SUMMARY

PREREQUISITES

- Good test coverage
- Developer knows the project
- Additional config



Thank you.

Visit infinum.co or find us on social networks:







