



Killing dead code

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DEAD CODE = UNREACHABLE CODE

**IS ALL YOUR CODE
REACHABLE?**

BEEN THERE, DONE THAT

 Project Find Results

1 result found in 1 file for `method_name`

▼  app/models/ocean/order.rb (1)

135 def `method_name`

1 result found in 1 file for `method_name`

`method_name`

Replace in project

File/directory pattern. eg. ``src`` to search in the "src" directory or ``*.js`` to search

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: ActiveRecord::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: ActiveRecord::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.

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