

DAY 15

WHAT
YOU
LEARNED



DOCUMENTATION
&
PSUEDO CODE



REFACTORING
W/ LINKED LISTS



CODE
REVIEW





REPORT IN

REPORT IN

As a class:

- How did Thur/Fri. go?

Individually:

- What did you learn from doing cal?

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PSUEDO CODE

Example (from Whiteboard)

- 0 Flatten Tire
- 1 Pull over
- 2 Put car in park
- 3 get out tire iron & spare
- 4 walk over
- 5 jack up car
- 6 Remove 6 lug nuts & store
-
3. Profit

Car	tire iron
person	lug nuts
tire	Car

Person → hands
Car → drives → lug nuts
→ tire iron
→ spare tire

```
Car.tire (front left). Flatten
person.pull over(car)
person.retrieve(car, "tire iron")
for every lugnut {
    remove lugnut
    store lugnut
}
```


DOCUMENTATION

Example (from Whiteboard)

README

- 4 File Structure & Naming Conventions
- 5 Dependencies (libraries & ruby version(s))
- 3 Limitations (e.g. only works for 1800-3000)
- 2 Features
- 1 Goal / Intentions of this code
- 4 How to use it (e.g. cat.rb 02 2012)
- 7 Contribution Guidelines
- 6 Author information & Attribution
- 8 Bugs / TODO
- 9 Changelog

Code Comments

Resources (e.g. wikipedia link,
algorithm name)

Explain difficult code

DOCUMENTATION

Exercise:

Write comments and a README for your cal project.

Resources:

- Notes from board (previous slide)
- <http://stackoverflow.com/questions/2304863/how-to-write-a-good-readme>
- <https://github.com/avdi/alter-ego>
- https://github.com/avdi/alter-ego/blob/master/spec/alter_ego_spec.rb

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CODE REVIEW

WHAT IS IT?

What is a code review?

- systematic examination (often known as peer review) of computer source code

WHY DO IT?

- intended to find and fix mistakes overlooked in the initial development phase

WHAT TO CHECK

- done in various forms such as pair programming, informal walkthroughs, and formal inspections

EXERCISE

Source: http://en.wikipedia.org/wiki/Code_review

CODE REVIEW

WHAT IS IT?

WHY DO IT?

WHAT TO CHECK

EXERCISE

Why do code reviews?

Because it improves both the overall quality of software and the developers' skills!

Source: http://en.wikipedia.org/wiki/Code_review

CODE REVIEW

WHAT IS IT?

WHY DO IT?

WHAT TO CHECK

EXERCISE

What to check?

(Whiteboard discussion time!)

See also:

ruby style guidelines (<https://github.com/bbatsov/ruby-style-guide/blob/master/README.md>)

And:

http://en.wikipedia.org/wiki/Code_smell

CODE REVIEW

WHAT IS IT?

WHY DO IT?

WHAT TO CHECK

EXERCISE

Today:

- Walk two peers through your code, reviewing it for the code smells we discussed
- **Be nice!** This isn't for criticism, it is for improvement!
- Each reviewer should produce a list of changes

Tomorrow:

- Refactor your code for cal based on your code reviews