







## Best Coding Practices

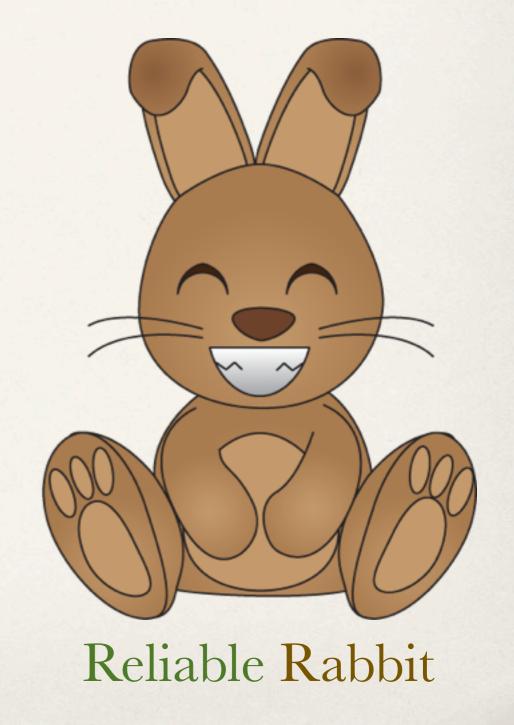
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#### Who Am I?

And why does it matter?

- \* Ruby on Rails, Java, PHP, C++ freelancer
- \* Ruby on Rails documentation contributor
- \* The guy with a beard
- https://GitHub.com/TheEmpty
- An eighteen year-old university student



#### An Overview

- Don't overuse variables, use constants when possible
- When you name an object, it should be descriptive
- \* Don't define methods in the main scope
- \* Document methods, their parameters and return values
- Write many small reusable methods, instead of one big method
- \* If you have to comment the code, you're probably make it too complex. The variable names and method names should be clear on the method's intensions.

#### Use Constants When Possible

- What is a constant?
- \* How do they affect performance?
- \* How do I declare a constant in Java?

## Naming Your Things

- \* What does toString() do?
- \* What does marksAlgorithm() do?
- What does int year hold?
- \* Is int car Year a bit more concise?
- \* How to refactor in Netbeans IDE (what we use in this course)

# Don't Define Methods in the Main Scope

- What is the main scope in Java?
- \* What about other languages that have a driver file instead of method?
- \* Why Not?

### Document All the Things!

- What is JavaDoc?
- \* Why use JavaDoc?
- How to document classes
- How to document variables
- How to document methods

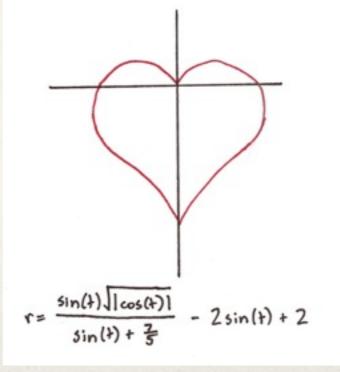
#### I'm Small In Japan

- Reusability
- Being able to keep function names concise
- Easier to read and track down bugs

## Keep It Simple Stupid! (K.I.S.S. me)

 Code should rarely need comments, the identifiers should be the comments

See "Naming Your Things"



#### Questions?

- \* Professor Kraft says, that if you don't ask questions, the teacher is either explaining everything crystal-clear, or you're so confused you don't even know how to ask a question.
- Next: Practice Application!

#### Practice Application

- \* Taking in a person's names (First, Last)
- Start building a Person class
- \* Create a constant for separator (Want a challenge? Make a String[] of banned names and create getters/setters so you can check against it)
- \* If you want more of a challenge, make a nickname and make it optional
- Document all the things!
- \* KEEP this application, ir will use it for the JUnit presentation