



June 2nd - 4th 2015
Copenhagen, Denmark



CONTRIBUTING TO GR8 TECHNOLOGIES

Dan Hyun

WHO?

Dan Hyun

 @LSpacewalker

 @danh hyun

Software Engineer @ [Mindspark](#)



GROOVY USAGE

~1 year personally/professionally

- Groovy
- Gradle
- Spock





WHAT?

How to...



WHAT?

How to...

- Contribute to Groovy



WHAT?

How to...

- Contribute to Groovy
- Contribute to Grails



WHAT?

How to...

- Contribute to Groovy
- Contribute to Grails
- Contribute to Gr8 Technologies



MY GROOVY EXPERIENCE



MY GROOVY EXPERIENCE

1. Wanted to use Gradle



MY GROOVY EXPERIENCE

1. Wanted to use Gradle
2. I had no idea where to start



MY GROOVY EXPERIENCE

1. Wanted to use Gradle
2. I had no idea where to start
3. Decided I needed to learn Groovy



GROOVY WHIRLWIND

Started with [Grails In Action 2nd Ed.](#)

Led me to Peter Ledbrook → [@GroovyPodcast](#) → GR8Conf

Continued with [Groovy In Action 2nd Ed.](#)
and watching talks from [GR8Conf youtube Channel](#)

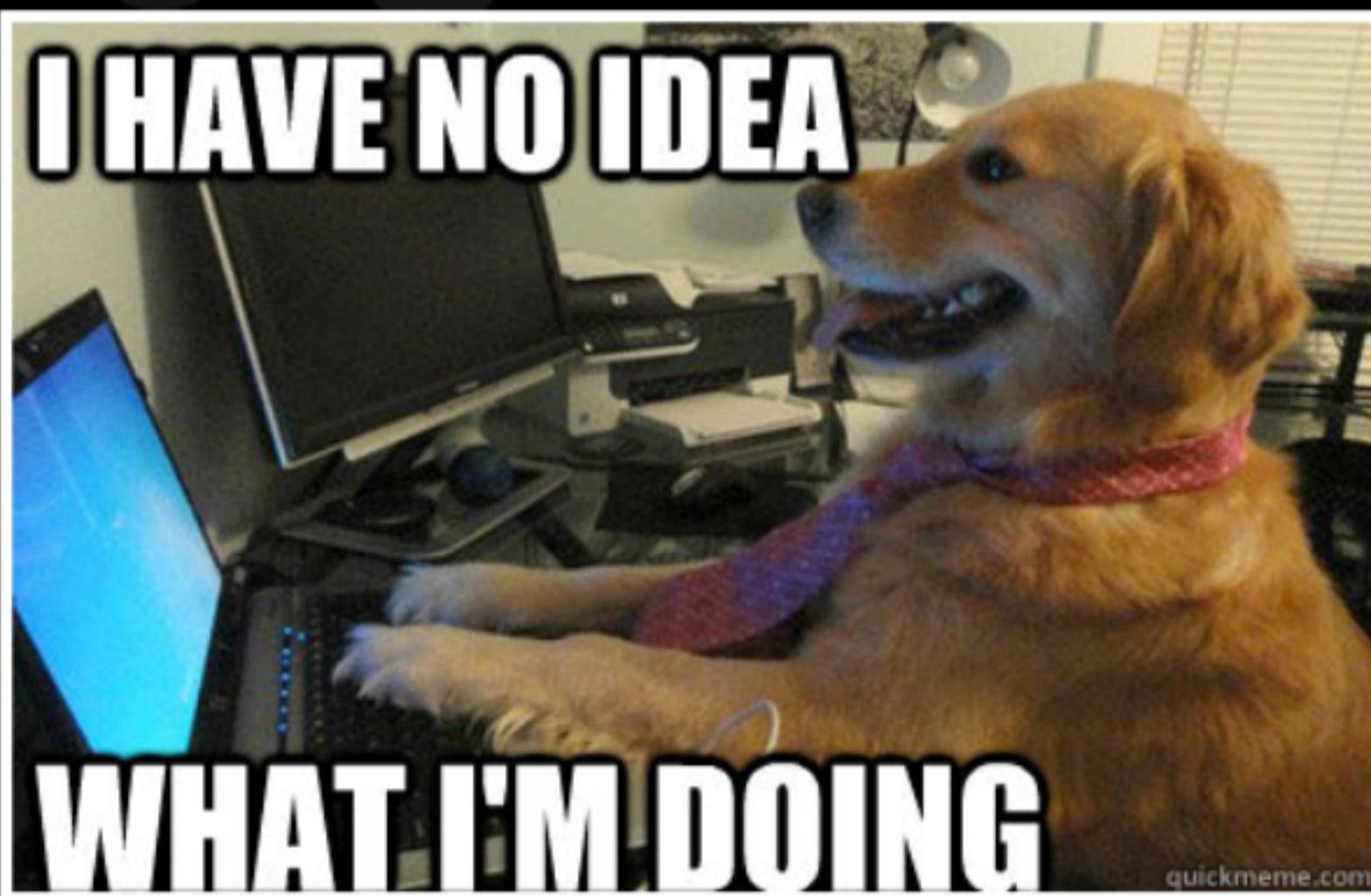
Follow Guillaume's [Groovy Weekly Update](#)

Participation on twitter [#groovylang](#)



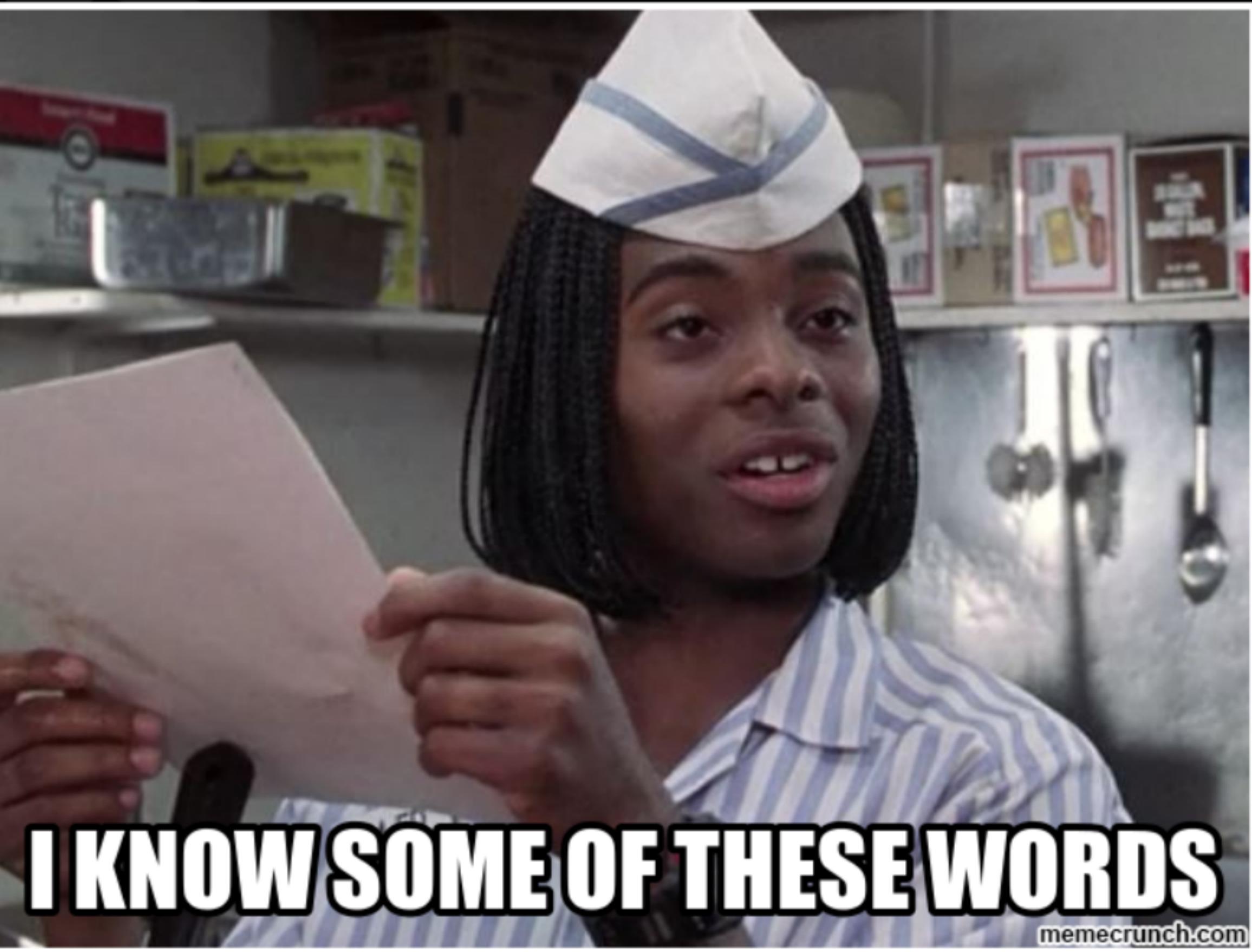
GROOVY EXPOSURE

From



GROOVY EXPOSURE

To



HOW TO FIND WAYS TO CONTRIBUTE?

USAGE

utilization → reading docs → executing sample code → encountering bugs (Groovy Puzzlers??)

EXPOSURE

Usage comes from exposure

COMMUNITY

Exposure comes from community



HOW TO FIND WAYS TO CONTRIBUTE?

Participate at any of these levels
you eventually find your way to source code



CURRENT STATE OF AFFAIRS

Groovy/Grails development no longer
financially supported by Pivotal



MOST RECENT GROOVY/GRAILS WINS

Groovy 2.4 (Groovy on Android!!!!)

Grails 3.0 (Complete rewrite on Spring Boot)



THE GROOVY COMMUNITY

- Friendly
- Positive
- Lots of Gr8 OSS projects
- and @HORSEGROOVY



HOW I ENVISION THE GROOVY COMMUNITY

F.U.B.U == For Us By Us



LEVELS OF CONTRIBUTION

- Community
- Usage
- Source Code



A GR8 COMMUNITY CONTRIBUTION

 **Danny Hyun**
@Lspacewalker

I can't get the transliteration of "Guillaume LaForge" out of my head - sorry in advance
/cc @glaforge

↪ ⌂ ⭐ ...



The image shows a man with glasses and a patterned jacket pointing towards a poster. The poster features a rainbow and the text 'The Groovy Prince of Bel-Air'. The background of the slide has a network graph pattern.



ANOTHER GR8 COMMUNITY CONTRIBUTION



CONTRIBUTING TO GROOVY



CONTRIBUTING TO GROOVY

- Good OSS Projects tell you how you can contribute.



CONTRIBUTING TO GROOVY

- Good OSS Projects tell you how you can contribute.
- Groovy is a Good OSS Project.



CONTRIBUTING TO GROOVY

- Good OSS Projects tell you how you can contribute.
- Groovy is a Good OSS Project.
- [Groovy's Contribution Guideline](#)



CONTRIBUTING TO GROOVY

Contribute

 Improve this doc

There are many ways you can help the Groovy development team improve the Groovy programming language. And all help is welcome to make a difference, by:

- helping other users on the [mailing-lists](#)
- [reporting issues](#) you encounter in our [bug tracker](#)
- [documenting](#) various aspects of the language or its APIs
- improving this [website](#)
- covering the code base with more tests to avoid future regressions,
- and of course, by [contributing bug fixes or new features](#)



DOCUMENTING

So don't hesitate to help us improve it, fix typos, broken language, clarify complicated sections, add new material, etc.

– Groovy Contribution Guide



DOCUMENTATION

The "Hello, World!" of contributions

Discover typos by usage



GROOVY TEAM MERGES CORRECTIONS!

apache / incubator-groovy
mirrored from <git://git.apache.org/incubator-groovy.git>

Watch 25 Star 336 Fork

Pull requests Labels Milestones Filters is:pr is:closed New pull request

Clear current search query, filters, and sorts

8 Open ✓ 22 Closed Author Labels Milestones Assignee Sort

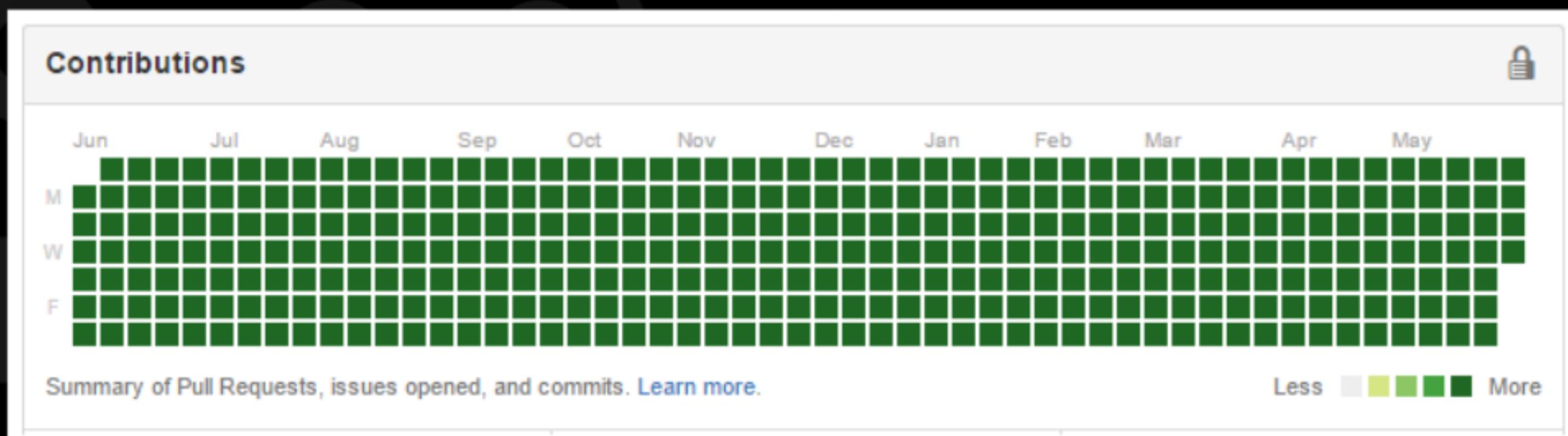
GROOVY-6212: SpreadExpression BUG! when slicing a List
#30 opened 2 days ago by paulk-asert

Append the power assignment operator to the docs
#29 opened 3 days ago by EPadronU

Corrections for a couple of minor typos in the documentation.
#28 opened 4 days ago by EPadronU



THE POSSIBILITIES



UPDATED CV

*Expert Groovy OSS Documentation
Contributor*

— Your Name Here



BECOME THE NEXT GROOVY KNIGHT



LIVE DOCUMENTATION CONTRIBUTION

WARNING



PREFLIGHT CHECKLIST



PREFLIGHT CHECKLIST

- Learn and download git



PREFLIGHT CHECKLIST

- Learn and download git
- Github Account



PREFLIGHT CHECKLIST

- Learn and download git
- Github Account
- git clone
git://github.com/apache/incubator-groovy.git



PREFLIGHT CHECKLIST

- Learn and download git
- Github Account
- `git clone
git://github.com/apache/incubator-groovy.git`
- Push finished code to your own fork



PREFLIGHT CHECKLIST

- Learn and download git
- Github Account
- `git clone
git://github.com/apache/incubator-groovy.git`
- Push finished code to your own fork
- Create PR with relevant info



FINDING AN ISSUE

While reading some Javadoc...

DefaultGroovyMethods.java

```
/**
 * Iterates through an List,
 * passing each item and the item's index (a counter starting at
 * zero) to the given closure.
 *
 * @param self    an List
 * @param closure a Closure to operate on each item
 * @return the self List
 * @since 2.4.0
 */
public static <T> List<T> eachWithIndex(...) { ... }
```



THE TYPO

an List

Bingo!

Time to contribute!



SCOPE OUT THE WORK

```
$ grep -ir "\b([^\w\W]\b)an \b(list\b)" .
./src/main/org/codehaus/groovy/runtime/DefaultGroovyMethods.java:
./src/main/org/codehaus/groovy/runtime/DefaultGroovyMethods.java:
./src/main/org/codehaus/groovy/runtime/DefaultGroovyMethods.java:
./src/main/org/codehaus/groovy/runtime/DefaultGroovyMethods.java:
./src/main/org/codehaus/groovy/runtime/DefaultGroovyMethods.java:
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./src/main/org/codehaus/groovy/runtime/DefaultGroovyMethods.java:
./src/main/org/codehaus/groovy/runtime/DefaultGroovyMethods.java:
./src/main/org/codehaus/groovy/runtime/InvokerHelper.java:
./src/main/org/codehaus/groovy/runtime/InvokerHelper.java:
./subprojects/groovy-jmx/src/main/groovy/groovy/jmx/builder/JmxLister
```



DOING THE WORK

```
$ grep -ir "\([^\w\W]\)\an \(\list\)" . | cut -d":" -f1 \
| sort -u | xargs sed -i 's/\([^\w\W]\)\an \(\list\)/\1a \2/g'
```



VERIFICATION

```
$ git status
On branch master
Your branch is up-to-date with 'origin/master'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working dire

    modified:   src/main/org/codehaus/groovy/runtime/DefaultGroov
    modified:   src/main/org/codehaus/groovy/runtime/InvokerHelp
    modified:   subprojects/groovy-jmx/src/main/groovy/groovy/jmx

$ git diff -b
```



RESPECT THE PROJECT'S PROTOCOL

Don't want to waste anyone's time

- Make sure it compiles locally
- Run tests
- Etc



SUBMIT PR

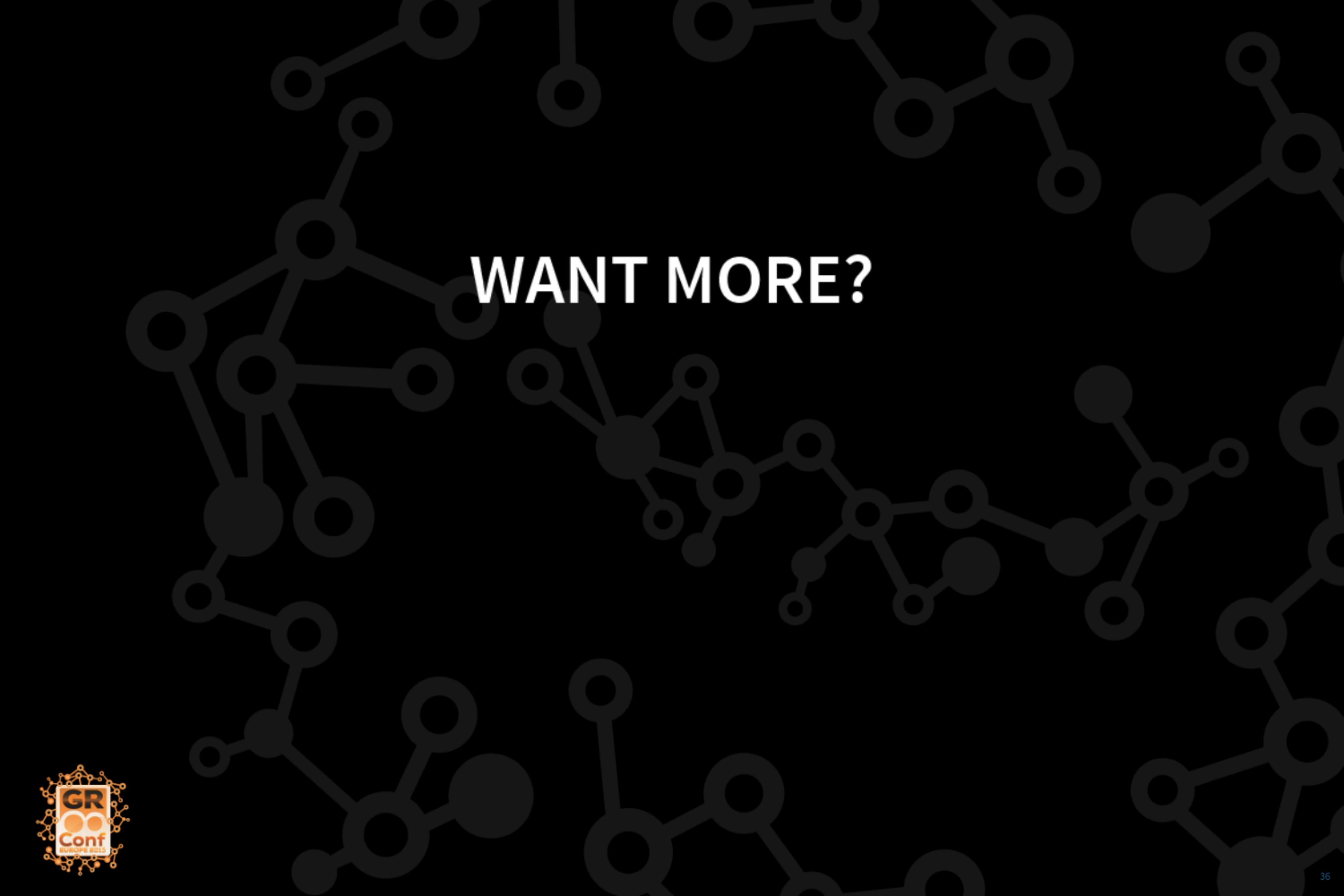
Provide some relevant information
about the work you've done.

Reference ticket numbers, etc...



IS IT MERGED YET?





WANT MORE?



WANT MORE?

- Learn about [Asciidoctor](#)



WANT MORE?

- Learn about [Asciidoctor](#)
- [Subscribe to Mailing Lists](#)



WANT MORE?

- Learn about [Asciidoctor](#)
- [Subscribe to Mailing Lists](#)
- Browse [issue tracker](#) for good first contribution tickets



GROOVY AND ASCIIDOCTOR

src/spec/doc/design-pattern-singleton.adoc

We can use this singleton class in some script code as follows:

```
[source,groovy]
-----
include:::{projectdir}/src/spec/test/DesignPatternsTest.groovy[tags=singleton]
-----
```



CORRESPONDING CODE

src/spec/test/DesignPatternsTest.groovy

```
// tag::singleton_vote_collector_usage[]
def collector = VoteCollector.instance
collector.display()
collector.votes++
collector = null
Thread.start{
    def collector2 = VoteCollector.instance
    collector2.display()
    collector2.votes++
    collector2 = null
}.join()
def collector3 = VoteCollector.instance
collector3.display()
// end::singleton_vote_collector_usage[]
```



RESULT

We can use this singleton class in some script code as follows:

```
def collector = VoteCollector.instance
collector.display()
collector.votes++
collector = null

Thread.start{
    def collector2 = VoteCollector.instance
    collector2.display()
    collector2.votes++
    collector2 = null
}.join()

def collector3 = VoteCollector.instance
collector3.display()
```

CONTRIBUTING TO GRAILS

Grails is also a Good OSS Project.

Grail's Contribution Guideline



GRAILS'S RECOMMENDATIONS

Contribute

 Improve this doc

There are many ways you can help the Grails development team improve The Grails Framework. And all help is welcome to make a difference, by:

- helping other users on [StackOverflow](#)
- contributing ideas to the [mailing-lists](#)
- [reporting issues](#) you encounter in our [bug tracker](#)
- [documenting](#) various aspects of the language or its APIs
- improving this [website](#)
- covering the code base with more tests to avoid future regressions,
- and of course, by [contributing bug fixes or new features](#)



GRAILS ALSO ACCEPTS TYPOS

grails / grails-doc

Watch 23 Star 154 Fork 185

fixed typo #238

Merged jeffbrown merged 1 commit into grails:master from domurtag:master on Mar 19

Conversation 0 Commits 1 Files changed 1

Showing 1 changed file with 1 addition and 1 deletion.

Unified Split

src/en/guide/introduction/whatsNew/coreFeatures.gdoc

View

		@@ -18,7 +18,7 @@ See the new section on the new [Gradle build guide:gradleBuild] for more informa
18	18	
19	19	h4. Application Profiles
20	20	
21		-Grails 3.0 supports the notion of application profiles via a new [profile repository https://github.com/grails/grails-profile-repository]
	21	+Grails 3.0 supports the notion of application profiles via a new [profile repository https://github.com/grails/grails-profile-repository]
22	22	
23	23	See the new section on [Profiles guide:profiles] for more information.
24	24	



FINDING AN ISSUE

The above command will create a new Spock spec called `MyFunctionalSpec.groovy` in the `src/test/groovy` directory. The test is annotated with the `Integration` annotation to indicate it is a integration test and extends the `GebSpec` super class:

```
@Integration
class HomeSpec extends GebSpec {

    def setup() {
    }

    def cleanup() {
    }

    void "Test the home page renders correctly"() {
        when:"The home page is visited"
        go '/'

        then:"The title is correct"
        $('title').text() == "Welcome to Grails"
    }
}
```



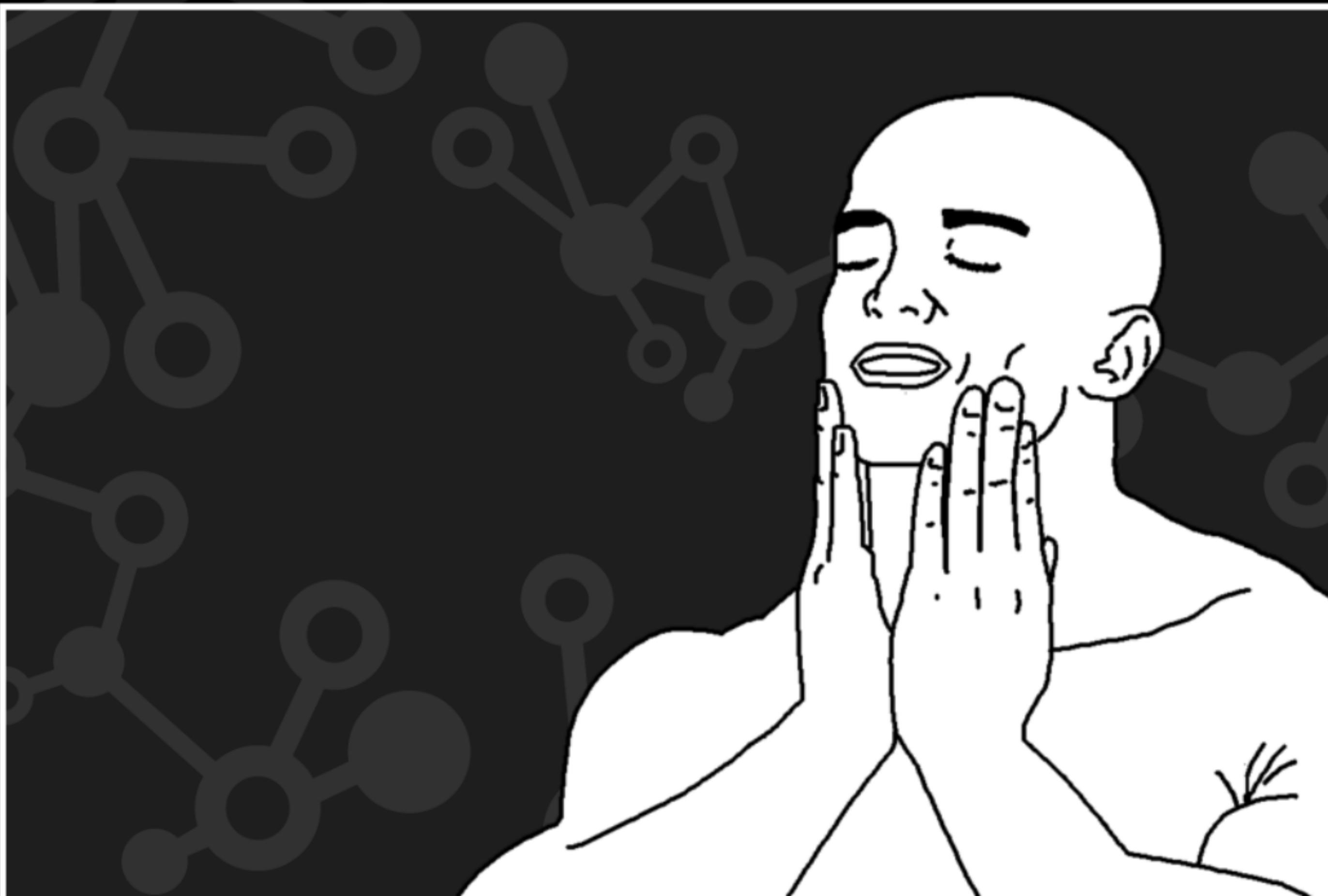
Craig Burke @craigburke1 · May 14

NOOOOOOO!! Spock indentation in the #grailsfw docs. Et tu, @grailsframework?

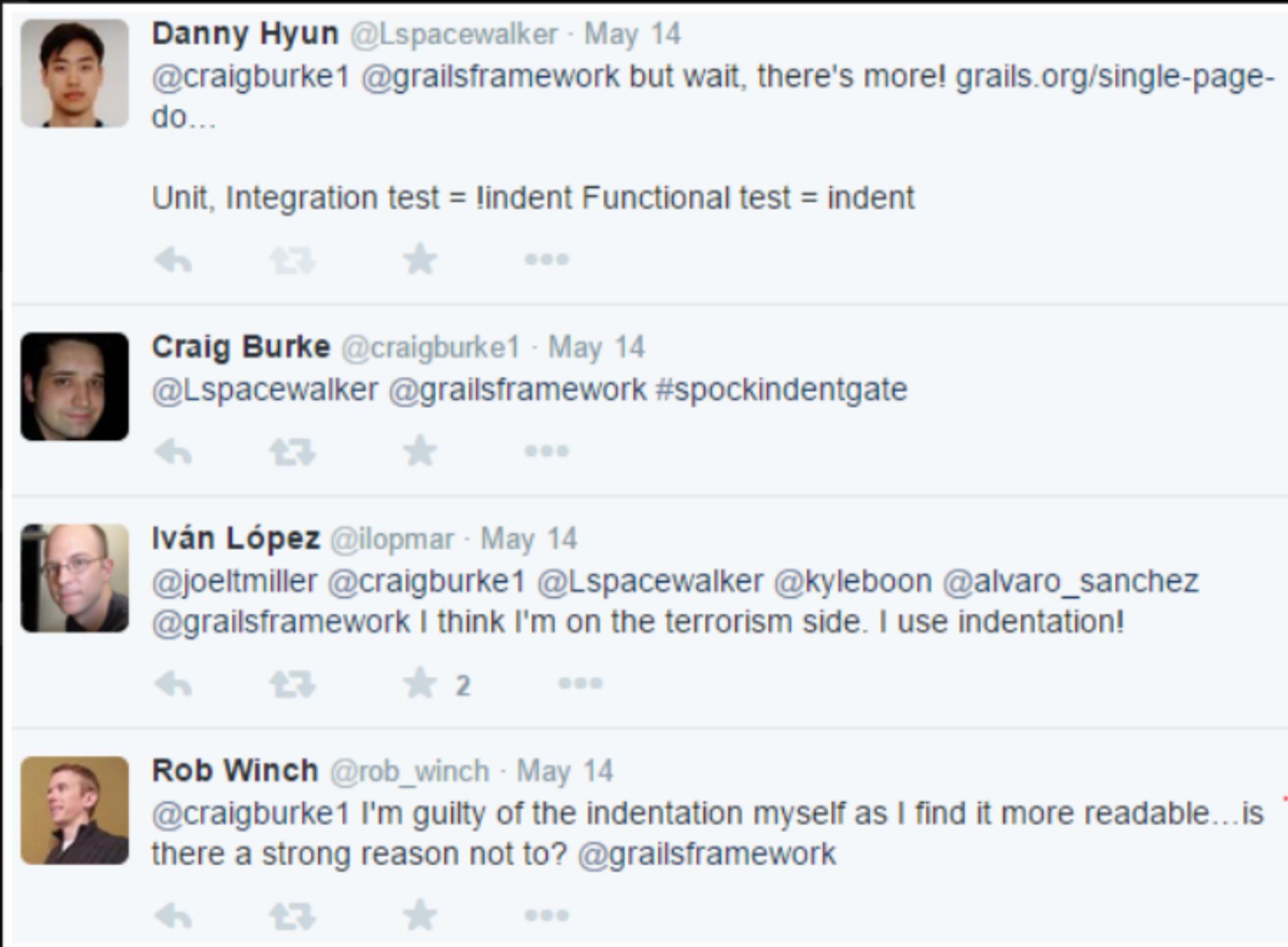
4 2 2 ⋮



ANOTHER CONTRIBUTION OPPORTUNITY!



SOME BACKGROUND



Danny Hyun @Lspacewalker · May 14
@craigburke1 @grailsframework but wait, there's more! grails.org/single-page-do...

Unit, Integration test = !indent Functional test = indent

Craig Burke @craigburke1 · May 14
@Lspacewalker @grailsframework #spockindentgate

Iván López @ilopmar · May 14
@joelmiller @craigburke1 @Lspacewalker @kyleboon @alvaro_sanchez
@grailsframework I think I'm on the terrorism side. I use indentation!

Rob Winch @rob_winch · May 14
@craigburke1 I'm guilty of the indentation myself as I find it more readable... is there a strong reason not to? @grailsframework



TO INDENT OR NOT TO INDENT?

Regardless of preference
indentation should be consistent



INCONSISTENCY

Confusing for the uninitiated

What is Spock or Geb?

Do I need to indent for this to work?

Why is it different?



UNIT TEST

```
def "grailsApplication is not null"() {  
    expect:  
    grailsApplication != null  
}  
  
def "doWithSpring callback is executed"() {  
    expect:  
    grailsApplication.mainContext.getBean('myService') != null  
}  
  
def "doWithConfig callback is executed"(){  
    expect:  
    config.myConfigValue == 'Hello'  
}
```



CONFUSION

New users may believe:

Unit tests == no indents

Functional tests == indentation



LIVE PR
functionalTesting.gdoc



NOW WE WAIT AGAIN



WANT TO CONTRIBUTE MORE?

Stack Overflow

Participate on StackOverflow

Code

Subscribe to the [mailing-list](#)

and indicate that you would like to do so.



GR8 OSS

There are a lot of
projects that use Groovy.

Feel free to explore and make
similar contributions.



CONTRIBUTE!

Say hello with `#groovylang`

Contribute some typo corrections

Get involved on Stack Overflow





QUESTIONS?

