

The logo for the Groovy Ecosystem conference 2014. It features a central square with the text 'GR' at the top, 'Eco' in the middle, and 'Conf' at the bottom. Below the square is the year '2014'. The entire logo is surrounded by a complex network of grey lines that resemble a circuit board or a web of connections.

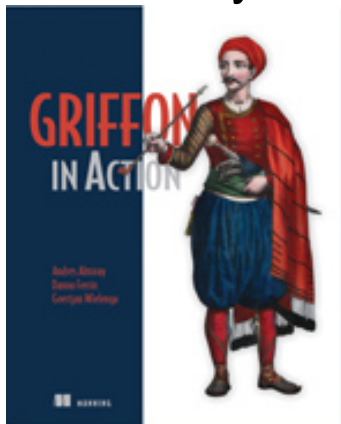
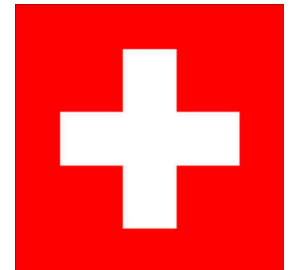
Groovy Ecosystem

Andres Almiray

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Career Engineering AG

About the Speaker

- ✓ **Java** developer since the beginning
- ✓ True believer in **Open Source**
- ✓ **Groovy** committer since 2007
- ✓ Project lead of the **Griffon** framework
- ✓ Currently working for **canoo**







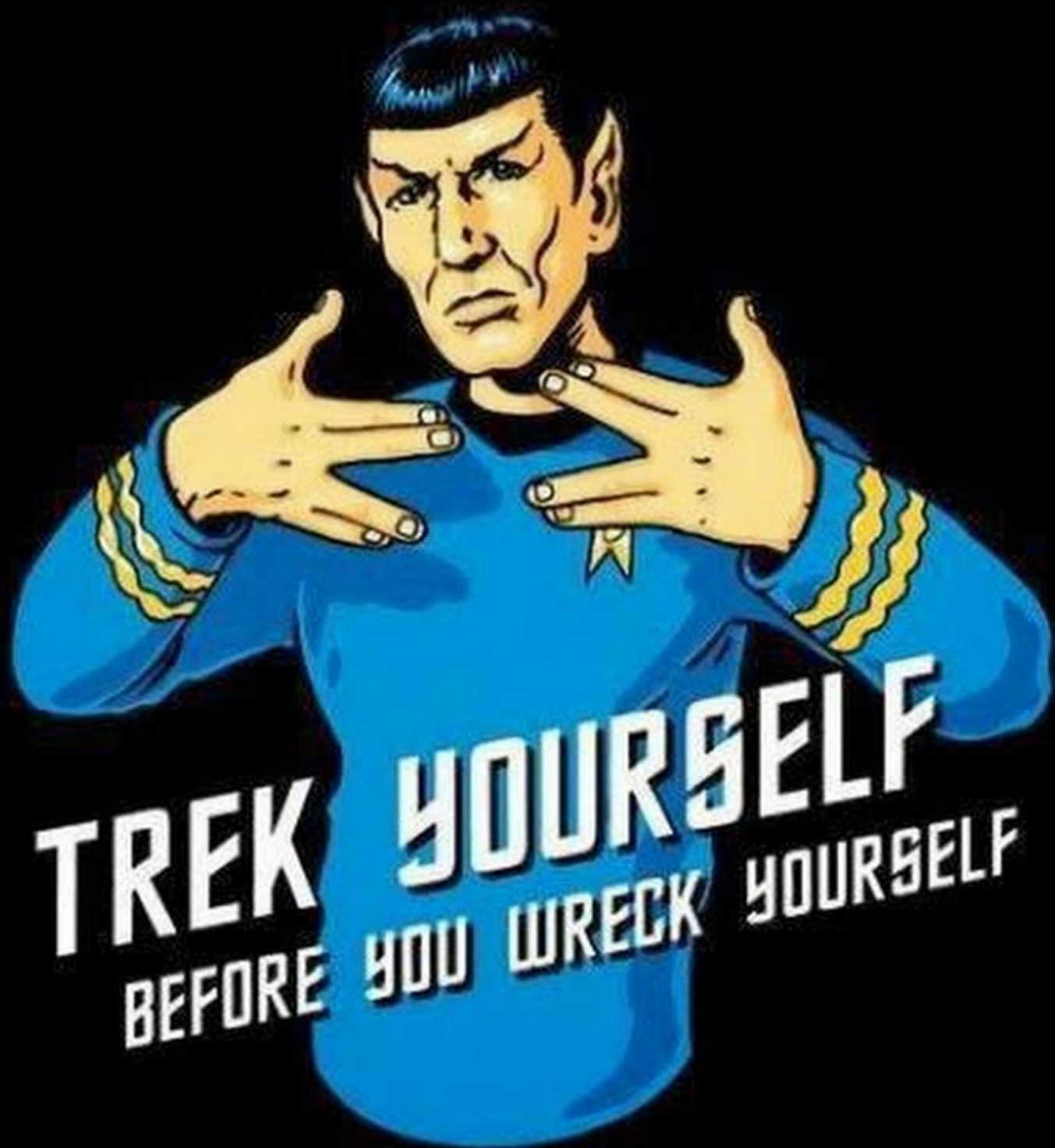
<http://grails.org>



<http://gradle.org>



<http://griffon-framework.org>





<http://spockframework.org>



<http://gvmtool.net>

WEB FRAMEWORKS



LIBRARIES

<http://gcontracts.org>

Provides “Design by Contract” capabilities

```
import org.gcontracts.annotations.*

@Invariant({ speed() >= 0 })
class Rocket {
    @Requires({ isStarted() })
    @Ensures({ old.speed < speed })
    def accelerate() { ... }

    boolean isStarted() { ... }
    def speed() { ... }
}
```



<http://gpars.codehaus.org>



<http://groovyfx.org>

<http://timyates.github.io/groovy-stream/>

```
def s = Stream.from( x:1..5, y:1..3 )
                .filter { ( x + y ) % ( x + 2 ) == 0 }
                .map { x + y }

// Returns results for:
// 3 - when - x:1, y:2 as (1+2)%(1+2) == 0
// 4 - when - x:2, y:2 as (2+2)%(2+2) == 0
// 5 - when - x:3, y:2 as (3+2)%(3+2) == 0
// 6 - when - x:4, y:2 as (4+2)%(4+2) == 0
// 7 - when - x:5, y:2 as (5+2)%(5+2) == 0

assert s.collect() == [ 3, 4, 5, 6, 7 ]
```

<https://github.com/dsrkoc/groovy-sql-stream-extension>

```
sql.withStream('...') { stream ->
    stream.collectMany { row ->
        [row.col_a + row.col_b, row.col_c * 2]
    }.collect {
        it < 10 ? it * 10 : it + 10
    }.findAll {
        it % 2 == 0
    }.toList()
}
```

TOOLS

jIPSY

gIPSY

<http://github.com/aalmiray/jipsy>

<http://github.com/aalmiray/gipsy>



<http://gant.codehaus.org>



<http://groovy.github.io/GMavenPlus>

<http://easyb.org>



```
scenario "DictionaryService can find the word 'Griffon'", {  
  given "an instance of DictionaryService is available", {  
    service = new DictionaryService()  
  }  
  
  when "the word 'Griffon' is used as parameter", {  
    result = service.findDefinition('Griffon')  
  }  
  
  then "the definition should be found", {  
    result.shouldBe "Desktop application development platform."  
  }  
}
```



CODENARC
Less Bugs Better Code

<http://codenarc.sourceforge.net>

<http://www.gebish.org>

```
import geb.Browser

Browser.drive {
  go "http://myapp.com/login"

  assert $("h1").text() == "Please Login"

  $("form.login").with {
    username = "admin"
    password = "password"
    login().click()
  }

  assert $("h1").text() == "Admin Section"
}
```

<http://kobo.github.io/groovyserv/>

Runs a JVM in the background, enables faster execution of scripts

Pair with @Grab to reap the benefits of fast, self contained scripts!

Multi platform support

GVM friendly



<http://github.com/pledbrook/lazybones>

<http://www.crashub.org/>

An embeddable shell for the Java Platform

Executes Groovy based commands

<http://grooscript.org/>



Transpiler from Groovy in Javascript

PUBLISHING TOOLS

<http://jbaje.org>



The “Jekyll” for the JVM

Supports GSP templates

Will support Cedric’s new Groovy Template engine

<http://sysgears.com/grain/>



Grain

Static website generator

Supports various formats such as AsciiDoc and Markdown

<https://github.com/kobo/gaiden>

Simplifies creating Markdown based documentation.

Pages, chapters, table of contents, templates

GVM friendly

THE FUTURE?

**Cédric Champeau**

@CedricChampeau

 Follow

Netflix, the largest single source of traffic in US is using [#groovylang](#), [#grailsfw](#) and [#gradle](#) at its core, and you say you can't?

9:51 AM - 16 Jul 2014

81 RETWEETS **24** FAVORITES



Thank you!

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