



# Cultivating the Jenkins job jungle with Groovy

J-FALL

2014

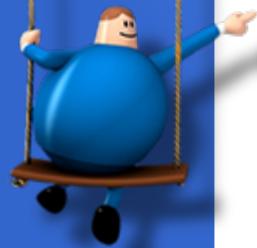
nl.  
jug



- Jenkins @ bol.com
- Evolution of Jenkins Management
- Job DSL
  - from scratch
  - real setup
- Future

# Jenkins @ bol.com

We have **1085** jobs  
Of which, **48** are 'System' jobs  
(jobs using System Groovy plugin)



35 scrum teams  
97 applications



## Evolution of Jenkins Management

- Basic CI
- Multiple jobs per app
- Large with flows
- Continuous Delivery



### Manual Solutions

Manual Edits

Copy From Existing

### Script Solutions

Script Console

System Groovy  
Script

Scriptler

### Job-like Solutions

Jenkins Template  
Plugin

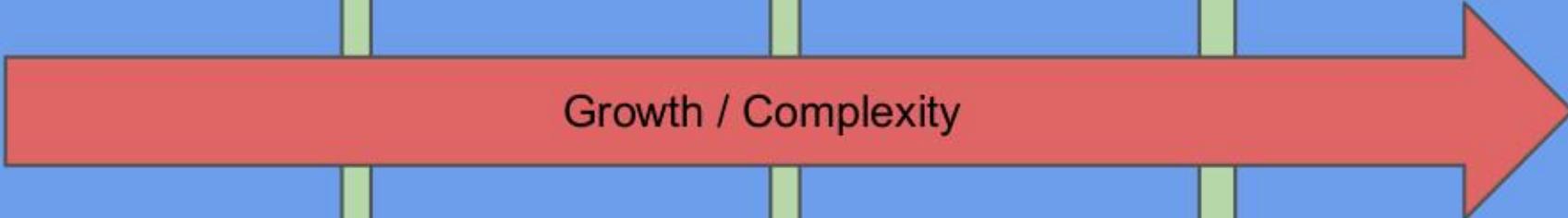
Jenkins Job DSL  
Plugin

### External Solutions

Jenkins Job Builder

Gradle Jenkins  
Plugin

Growth / Complexity



Evolution of Jenkins Management

A photograph of a traditional hut with a thick, dark thatched roof and wooden walls, situated on stilts over a body of water. The hut is surrounded by lush green jungle. In the background, a person wearing a red shirt is crouching on a large leaf or branch. The overall atmosphere is one of a remote, natural environment.

Configuration-as-Code  
Don't Repeat Yourself  
Version Control

*The Addison-Wesley Signature Series*

# CONTINUOUS DELIVERY

RELIABLE SOFTWARE RELEASES THROUGH BUILD,  
TEST, AND DEPLOYMENT AUTOMATION

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JEZ HUMBLE  
DAVID FARLEY



*Foreword by Martin Fowler*

A MARTIN FOWLER SIGNATURE BOOK



# Issues

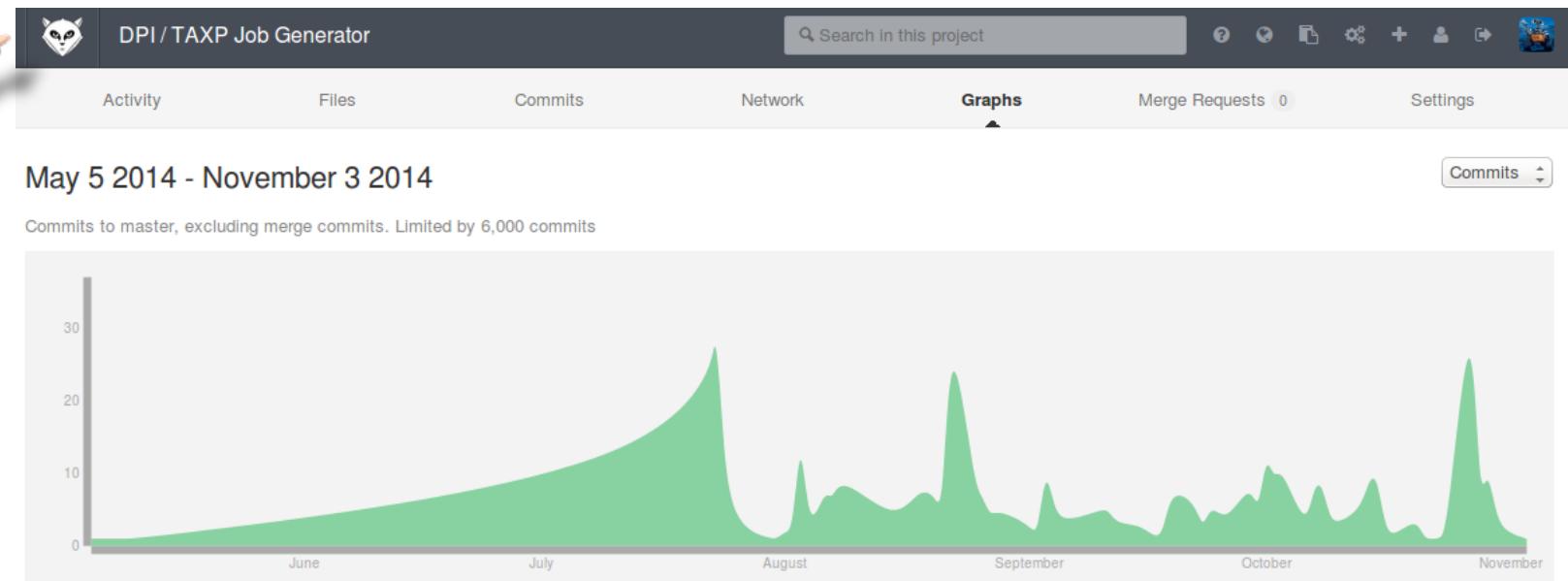
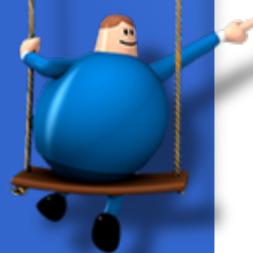
Not managing whole config

May need plugin

May need Jenkins reload

# JobDSL @ bol.com

From the **1085** jobs we have,  
**752** are maintained with the JobDSL

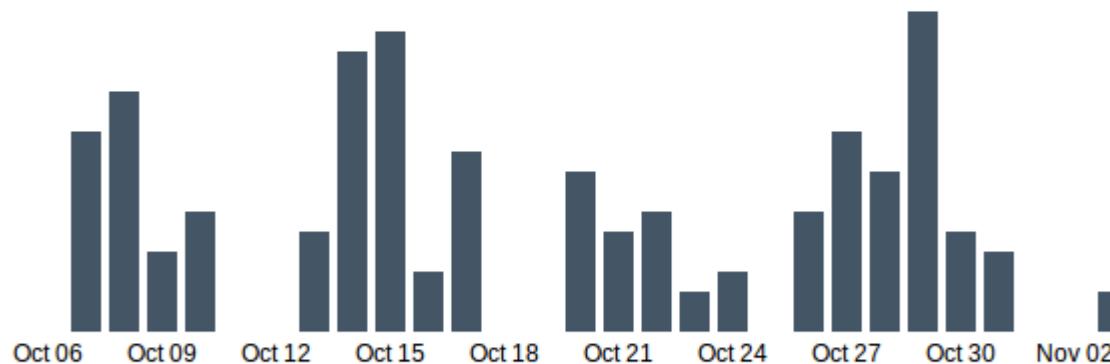


# JobDSL @ bol.com

35 scrum teams

Commits   Compare   Branches 7   Tags 0   **Stats**

Commit activity for last 4 weeks



**Total commits:** 513

**Total files in master:** 252

**Authors:** 28

# Benefits

Consistency

Predictability

Auditability

Self-servicing

No repetitive strain injury (RSI)

Time to do other stuff

# Future?

Pipeline configuration:

- in project repo
- auto picked up on commit
- run local, in-house, cloud
- no plugins
- takes care of required tools
- IDE support

Next-gen Continuous Delivery tool



Pipeline.cd

@pvdisseL

[github.com/pvdisseL/talk-jenkins-jobdsl](https://github.com/pvdisseL/talk-jenkins-jobdsl)



Next-gen CD tool? Come help  
**Pipeline.cd**

## Images used

- 14766487031\_38a4bfcb51\_o.jpg  
<https://www.flickr.com/photos/lukeprice88/14766487031>
- 14718610966\_07d1039086\_o.jpg  
<https://www.flickr.com/photos/101244975@N08/14718610966>
- Jenkins logo  
<https://wiki.jenkins-ci.org/display/JENKINS/Logo>
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- 15010592305\_009ae3b976\_o.jpg  
<https://www.flickr.com/photos/kurt-b/15010592305>

## Slide used:

- "Evolution of Jenkins Management"  
From "Managing Jenkins With Gradle" by Gary Hale @GradleSummit2014  
[https://www.youtube.com/watch?v=FGs6\\_D8ul60](https://www.youtube.com/watch?v=FGs6_D8ul60)  
<https://speakerdeck.com/ghale/managing-jenkins-with-gradle>