

Joram Barrez

@jbarrez

joram.barrez@alfresco.com

github.com/jbarrez

Josh Long (龙之春)

@starbuxman

jlong@pivotal.io

github.com/joshlong

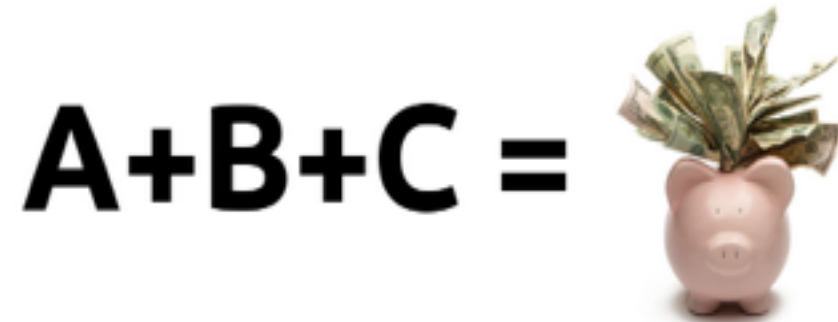
PROCESS DRIVEN APPS WITH ACTIVITI + SPRING BOOT

WHY WORKFLOW?



Activiti is a platform for executing
workflows or *business processes*

A business process, you say?

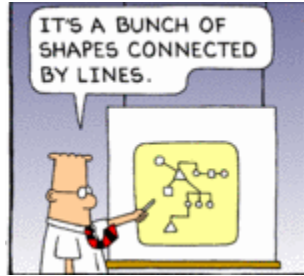


A business process, you say?

- Anywhere *human* work and/or *systems* are combined to produce value
- Business processes involve *everyone*
 - The employees being part of it
 - The customers paying for them
 - The bosses trying to optimise them
 - ... and the developers implementing them

A business process, you say?

- Processes are visualised (with flowcharts)



- Why would I use a picture for creating software?
 - Improve communication and understanding of both tech and non-tech people
 - Manage complexity
 - Orchestrate distributed cloud services

Why would I execute those 'pictures'?

Business Processes automated



Metrics

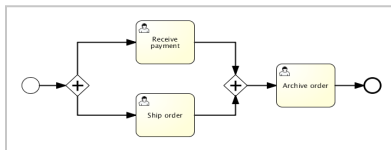


Optimization

So, it's basically a picture?

- Yes, and no: it's a picture (or *diagram*) with
 - standardized building blocks
 - technical XML representation
- The industry accepted standard: BPMN 2.0
- The *Activiti engine* takes BPMN 2.0 XML and executes the system calls and create tasks for the human workers

The diagram



API's
UI's
Insight

Human work

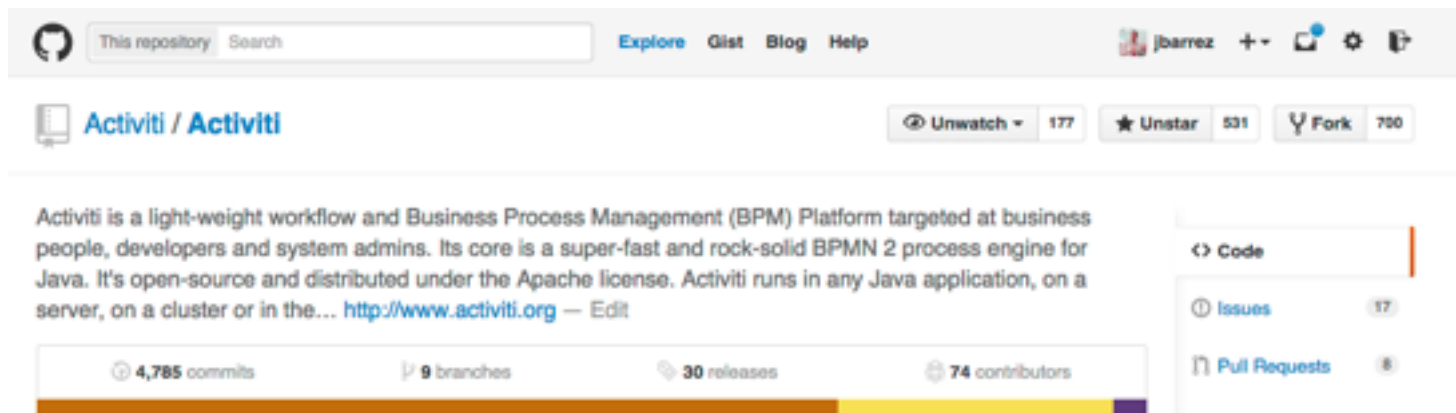
*Boss needs to approve expense ...
Joey needs to call this customer!
Customer can't book ticket ...*

System calls

*Generate a pdf
Book ticket through partner REST api ...
Merge all documents involved in the process*

Activiti is open source

- Founded and funded by Alfresco
- First commit March 2010
- Apache 2 licensed
- 1 pull request / 2 days
- Fork us @ www.github.com/Activiti !



The screenshot shows the GitHub repository page for Activiti. At the top, there's a navigation bar with the GitHub logo, a search bar labeled "This repository", and links for "Explore", "Gist", "Blog", and "Help". On the right of the navigation bar, there's a user profile for "jbarrez" and icons for adding, cloning, settings, and sharing. Below the navigation bar, the repository name "Activiti / Activiti" is displayed with a repository icon. To the right of the name are buttons for "Unwatch" (177), "Unstar" (531), "Fork" (750), and a "Watch" button. The main content area contains a description of Activiti as a light-weight workflow and Business Process Management (BPM) Platform, noting it's open-source and distributed under the Apache license. It also provides a link to the website <http://www.activiti.org> and an "Edit" link. At the bottom, there's a statistics bar showing "4,785 commits", "9 branches", "30 releases", and "74 contributors". On the right side, there's a sidebar with links to "Code", "Issues" (17), and "Pull Requests" (8).

This repository Search

Explore Gist Blog Help

jbarrez + -

Activiti / Activiti

Unwatch 177 Unstar 531 Fork 750

Activiti is a light-weight workflow and Business Process Management (BPM) Platform targeted at business people, developers and system admins. Its core is a super-fast and rock-solid BPMN 2 process engine for Java. It's open-source and distributed under the Apache license. Activiti runs in any Java application, on a server, on a cluster or in the... <http://www.activiti.org> — Edit

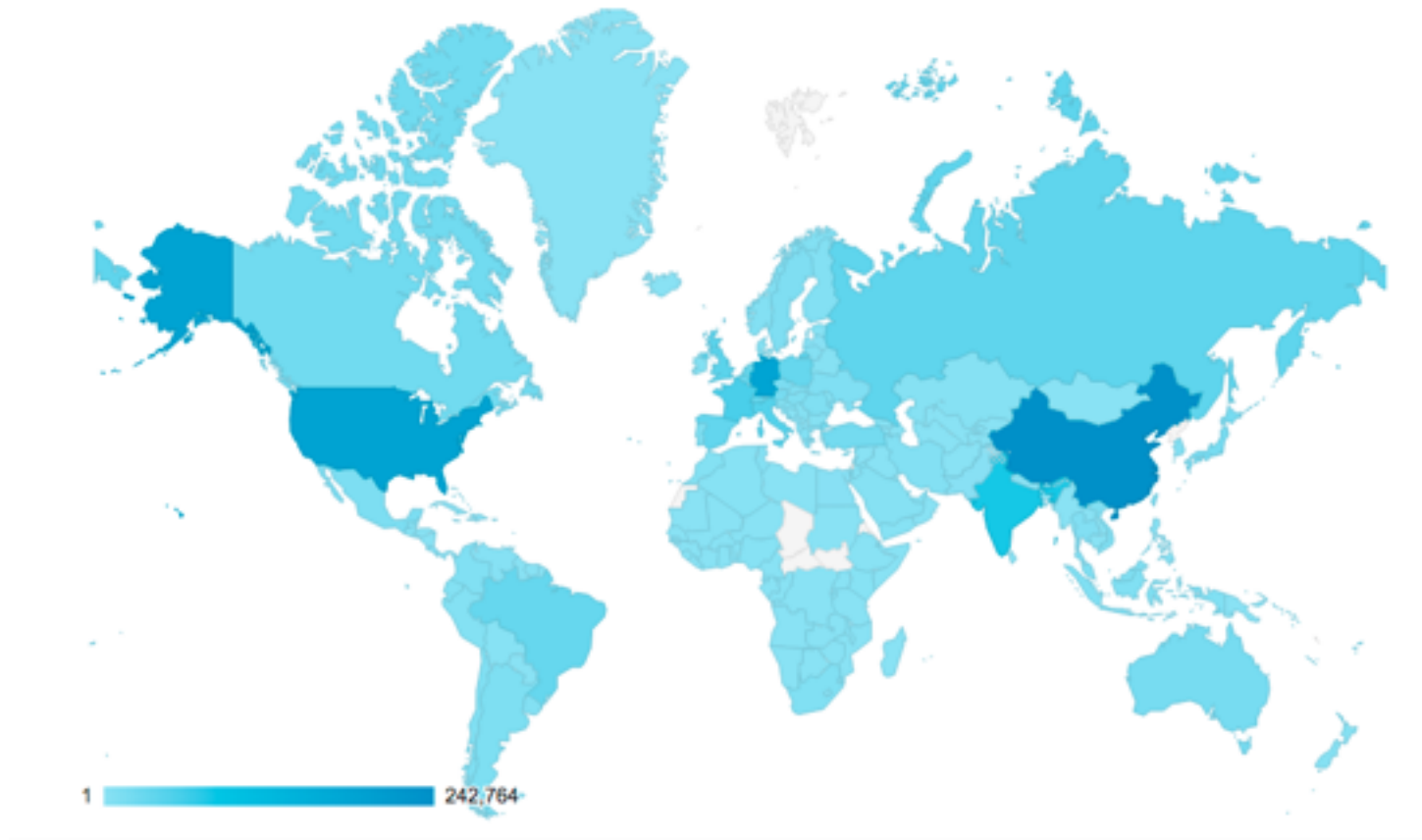
4,785 commits 9 branches 30 releases 74 contributors

Code

Issues 17

Pull Requests 8

Activiti is global




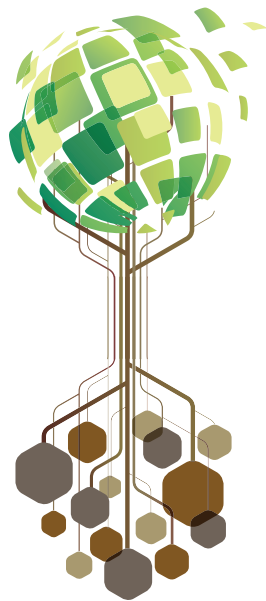
Activiti is lightweight

- Java core engine
- Just a jar == **Embeddable** in any Java environment
 - But full-blown standalone server possible
- Designed to be very light on resources

<http://www.jorambarrez.be/blog/2013/02/15/activiti-runs-on-a-raspberry-pi-model-b-with-9mb-heap/>
- Designed for performance
- Designed to scale horizontally
 - stateless architecture
 - database spof

Activiti is ready for your enterprise

- Commercial support by  Alfresco®
- Partner ecosystem
- Enterprise Activiti Suite offering
 - SaaS : activiti.alfresco.com
 - Try it today!
 - On premise



Enough jibber-jabber, show me code!

- Finding a good business process is hard
 - *Always* company/industry specific
- Introducing the Photo Service

THE PROCESS ENGINE



THE “DOGIFICATION” PROCESS





THE GLORY OF DOGE

<http://knowyourmeme.com/memes/doge>

STEP 1: UPLOAD IMAGE @ /client



+

WOW

+



=



STEP 2: SEE IT IN `/monitor`



THE PROCESS ENGINE



MANAGING HUMAN TASKS



SPRING SECURITY AND ACTIVITI'S IDENTITYSERVICE



THE REST API



ACTIVITI ACTUATOR ENDPOINTS



NEXT STEPS

- SPRING.IO GUIDE
- BOOT
- CHECK IT OUT!





Questions?

References

activiti.org

spring.io/

start.spring.io

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