

Apache Maven as a Community & Enterprise enabler

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Few items we'll talk about...

- Developer ergonomics & the ideal world
- Apache Chemistry OpenCMIS
- Alfresco Community & Enterprise
- Maven Alfresco SDK
- Summary & Q/A

Who's this guy?

- Gabriele Columbro
 - Principal Architect, Alfresco Software
 - Release Mgr, Apache Chemistry OpenCMIS
 - Maven enthusiast & fundamentalist :)
- Alfresco Software
 - Open Source ECM
 - Community vs. Enterprise
 - Java Based, Integrates Apache * and more

Why do we love #asf development?

- As a developer
 - Self-documenting
 - You are never alone!
 - Open Source ↔ Standard
- As a release manager
 - Lean release process
 - Automation
 - Standardization
 - Legal coverage



In substance...freedom!

- Integrating components
- Running on your laptop!
- No lock-ins
- Learn by example
- Fix it yourself
- Focusing of “creativity”
 - Standard development / release process
 - No infrastructure gotchas
 - Jump start, low RTFM



Developer ergonomics

- How simple is to build and run your software?
- How easy is testing it?
- Framework based development
 - Clean / clear release cycle
 - Dependency Management
 - Core build vs. integration facilities
 - Extension points
- Key element to a successful / viral ecosystem!

Community vs. Ecosystem

- **Community**

- End users
- Buzz and trends
- Initial driver

- **Ecosystem**, the next level for a framework

- Active lively development community
- Contributions
- Proactive Partners / Customers

Apache Chemistry OpenCMIS

Project history

- CMIS standard implementation
- Project started in 2009
- ASF contribution in late 2009 / early 2010
- First incubator release in early 2010
- Graduation in 2011
- 8 releases in less than 2 years
- Maven Release management might have been quite tedious! But...

Maven + ASF. The dynamic duo ☺



Maven + ASF: releases like a charm!

Zero conf
via Apache POM

repository.apache.org

Incubator mentoring

Maven Central

Integrated process

Staging support



Basically...paradise!



Who benefits from that?

- Me, me, me!
- Community
 - Well-know contracts and interfaces
 - No brainer evaluation
- Did I mention ME?
- Enterprise Ecosystem
 - Standard integration lifecycle
 - Thorough legal / licensing enforcement
 - Control over inbound software

The Maven + Alfresco story

Once upon a time... (2007)

Boss: “You gotta learn Alfresco, quick!”

Gab: “Mhmhmh...ok 😊”

- We all ♥ frameworks
 - Modern and cool
 - Open Source and Easy to use
- And Alfresco is all of that but...



So what was this Alfresco thing?

Very, **very** nice platform, but not so easy to

Unit testing?

Rapid
development?

Process integration?

Dependency
Management?

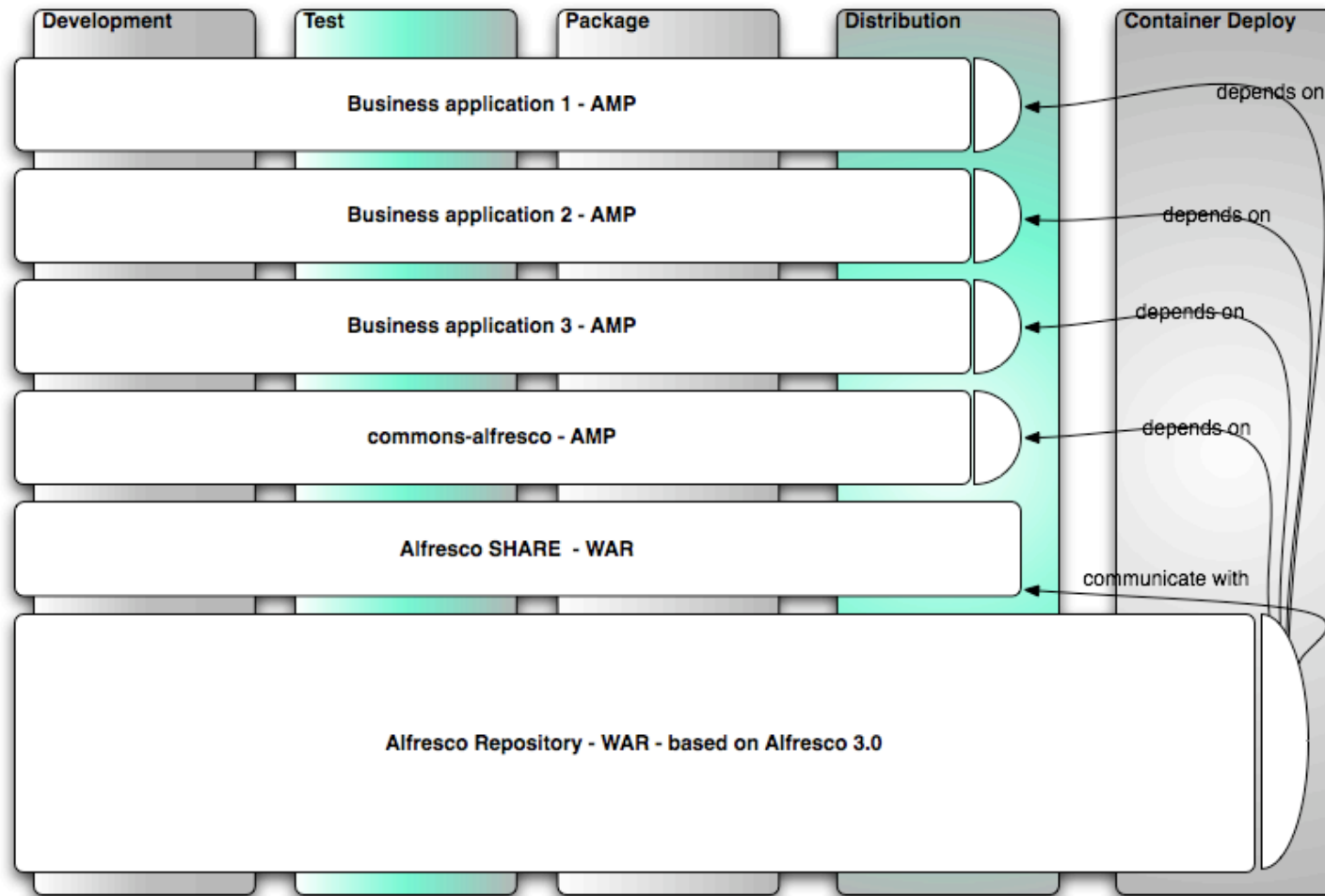
`{extensionRoot}`?

Alfresco Module
Packages?

It's a bit like...



A typical complex ECM project



And the solution would be?



The real solution was ... going rogue! 😊

Confession

- I have never used the “old” Alfresco SDK! (ehm...)
- I need more productivity and standards!

Why not?

- Alfresco is **just a webapp** (WAR)
- AMPs are **no more than ZIPs** managed by Alfresco Module Management tool

Why can't I use my favorite tool of choice?



maven



But a fool with a tool is still a fool...



Evil plan needed!

1. *The hole in the box*

Alfresco Artifacts taxonomy

Artifacts Repository

2. *My stuff in that box*

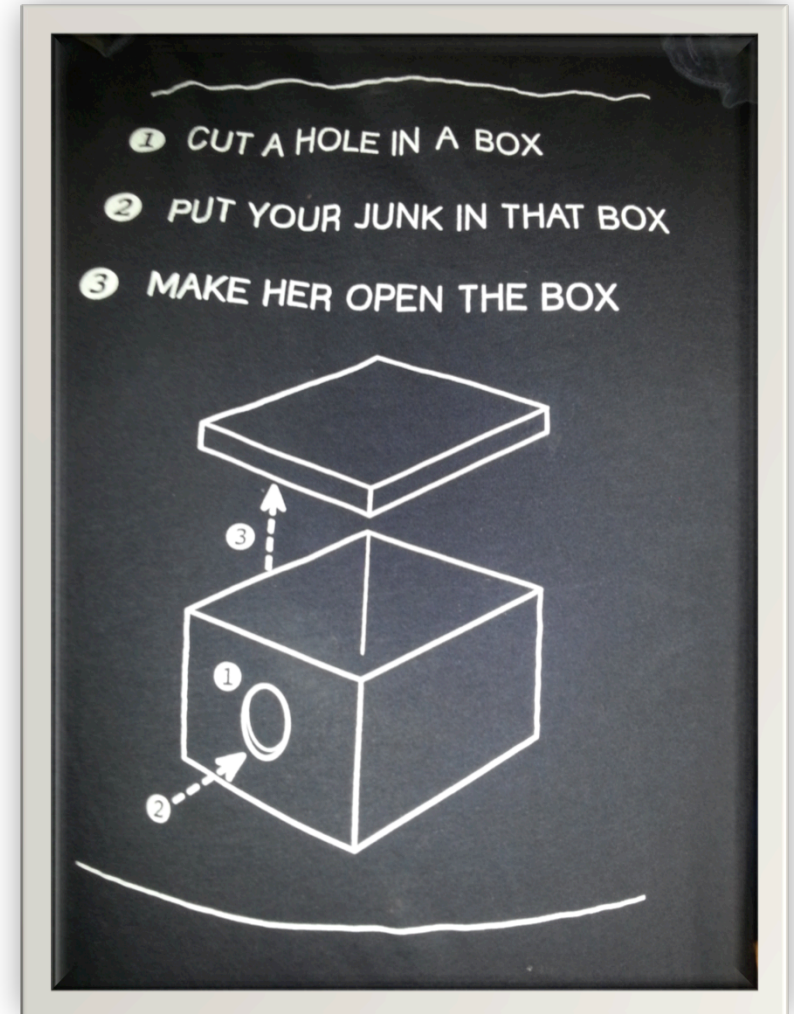
Project archetypes

Frequently used samples

3. *Make her open the box*

Delivery to the Community

Alfresco Enterprise compatible



A Community success story

- **2008: Maven Alfresco Archetypes founded**
 - A (quite messy) set of field Maven best practices
- **2009: Maven Alfresco Lifecycle (up to 3.9.1)**
 - Consolidation of archetypes and plugins
 - More than 100 people on the public list
- ***June 2012: Alfresco Artifacts Repository!***
 - More than 100 Enterprise customers subscribed!
- ***Nov 2012: Maven Alfresco SDK™ released!***
 - Backed by Alfresco Artifacts and POMs!

Wait or build the momentum!



Patience

It's good unless you have severe head trauma

Just two days ago...

Guess what?



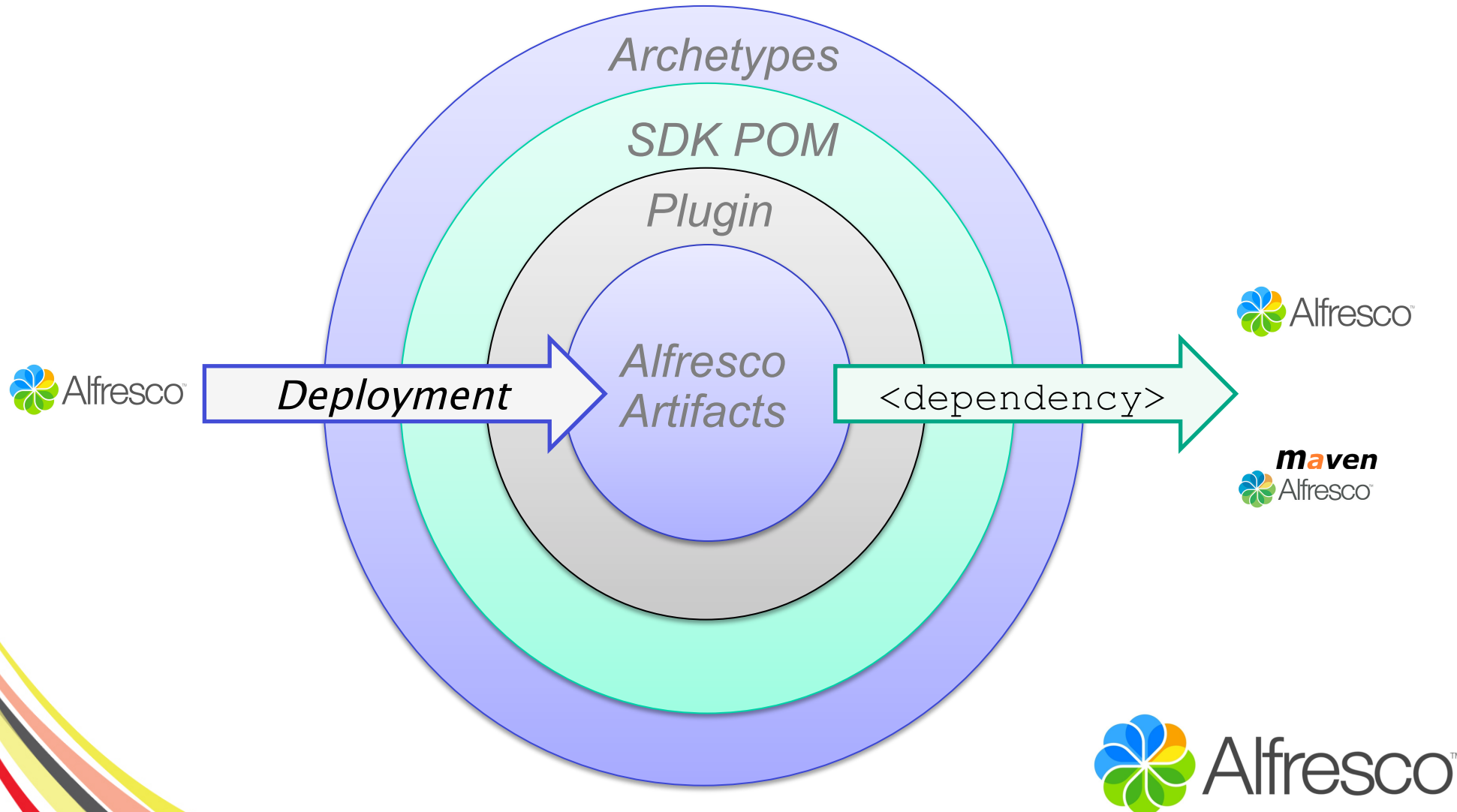
Alfresco.org
devcon 2012

The Maven Alfresco SDK

Maven Alfresco SDK components

- ***Alfresco Maven Plugin***
Embeds Alfresco MMT
- ***Alfresco SDK Parent POM***
SDK single point of entrance
- ***Alfresco Platform Distribution POM***
Community / Enterprise
- ***Alfresco Maven archetypes***
AMP & All-in-One

Maven Alfresco SDK™ architecture



Because development should be fun...

Zero downloads

Sources &
Javadocs

Unit & integration
testing

Integrated runtime

Standard lifecycle

Fast
Prototyping

IDE independent

SDK entry points

- **AMP archetype**
 - Development of features on Repo / Share as AMPs
 - Local testing of developed features
- **All-in-one archetype**
 - Full blown demo or Enterprise quick start project
 - Contains AMP, Repo, Share, Solr, Web Quick Start
- **Your custom project**

Using SDK Parent or Alfresco Maven Plugin

And with Maven also
Alfresco development can be!

AMP packaging

Alfresco platform
selection

AMP → WAR
installation

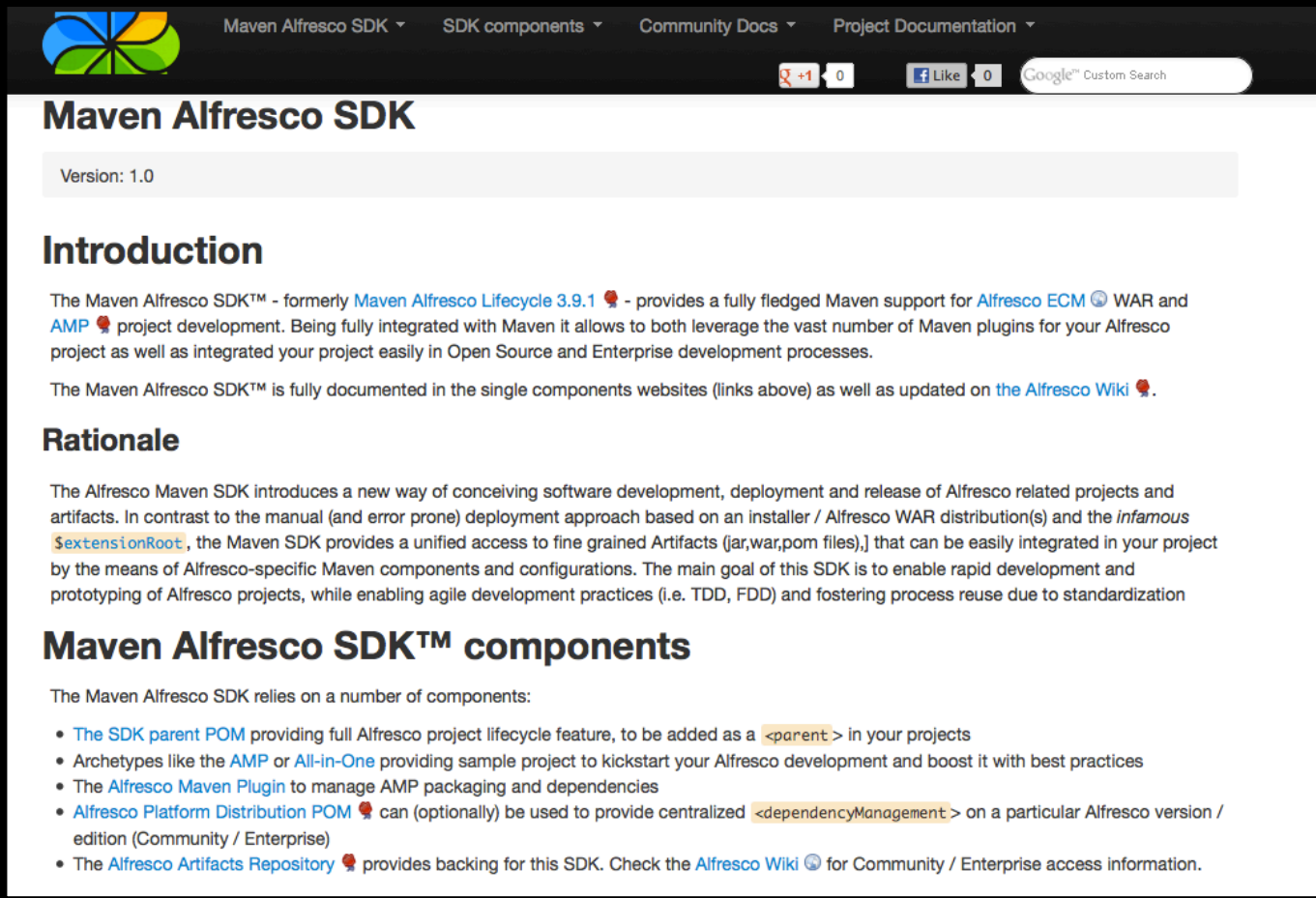
UI Share
customization

Repository extension

Solr configuration

Documentation website

<https://artifacts.alfresco.com/nexus/content/repositories/alfresco-docs/alfresco-lifecycle-aggregator/latest/index.html>



The screenshot shows the documentation page for the Maven Alfresco SDK. The page has a dark header with navigation links: "Maven Alfresco SDK", "SDK components", "Community Docs", and "Project Documentation". There is also a search bar and social media icons for +1 and Like. The main content area has a title "Maven Alfresco SDK" and a sub-header "Version: 1.0". The "Introduction" section describes the SDK as a fully fledged Maven support for Alfresco ECM WAR and AMP project development. The "Rationale" section explains the SDK's goal of enabling rapid development and prototyping. The "Maven Alfresco SDK™ components" section lists four key components: the SDK parent POM, archetypes like AMP or All-in-One, the Alfresco Maven Plugin, and the Alfresco Platform Distribution POM.

Maven Alfresco SDK

Version: 1.0

Introduction

The Maven Alfresco SDK™ - formerly [Maven Alfresco Lifecycle 3.9.1](#) - provides a fully fledged Maven support for [Alfresco ECM](#) WAR and [AMP](#) project development. Being fully integrated with Maven it allows to both leverage the vast number of Maven plugins for your Alfresco project as well as integrated your project easily in Open Source and Enterprise development processes.

The Maven Alfresco SDK™ is fully documented in the single components websites (links above) as well as updated on [the Alfresco Wiki](#).

Rationale

The Alfresco Maven SDK introduces a new way of conceiving software development, deployment and release of Alfresco related projects and artifacts. In contrast to the manual (and error prone) deployment approach based on an installer / Alfresco WAR distribution(s) and the *infamous* [\\$extensionRoot](#), the Maven SDK provides a unified access to fine grained Artifacts (jar,war,pom files,) that can be easily integrated in your project by the means of Alfresco-specific Maven components and configurations. The main goal of this SDK is to enable rapid development and prototyping of Alfresco projects, while enabling agile development practices (i.e. TDD, FDD) and fostering process reuse due to standardization

Maven Alfresco SDK™ components

The Maven Alfresco SDK relies on a number of components:

- The [SDK parent POM](#) providing full Alfresco project lifecycle feature, to be added as a `<parent>` in your projects
- Archetypes like the [AMP](#) or [All-in-One](#) providing sample project to kickstart your Alfresco development and boost it with best practices
- The [Alfresco Maven Plugin](#) to manage AMP packaging and dependencies
- [Alfresco Platform Distribution POM](#) can (optionally) be used to provide centralized `<dependencyManagement>` on a particular Alfresco version / edition (Community / Enterprise)
- The [Alfresco Artifacts Repository](#) provides backing for this SDK. Check the [Alfresco Wiki](#) for Community / Enterprise access information.

BTW, The sexy Fluido skin ROCKS!
Kudos!

Quick Demo

<https://artifacts.alfresco.com/nexus/content/repositories/alfresco-docs/alfresco-lifecycle-aggregator/latest/archetypes/alfresco-allinone-archetype/index.html>

*All-in-One multi-module
packaging & embedded run*

0 manual downloads, 2 commands and you're up and running!

```
MAVEN_OPTS="-Xms256m -Xmx1G -XX:PermSize=300m"
```

Enthusiastic feedback!

“Who is supporting
Ant for integration,
in 2012? ☺”

Twitter buzz at
#alfDevCon

Session Packed
and kudos ☺

Peak of visits!

Hyper productive
hack-a-thon

A needed clarification...

- **I did my homeworks**
 - *Ant* → Just can't scale and provide simple support for “framework integration”
 - *Gradle* → Nice and lean but
 - Less mature and complete than Maven
 - Less expertise around
 - Perfect for experienced developers, less for noobs
- **Maven and the 80% - 20% rule**
 - Nobody is perfect
 - Standard de facto
 - Provides compatibility for other build tools

Conclusions and Q/A

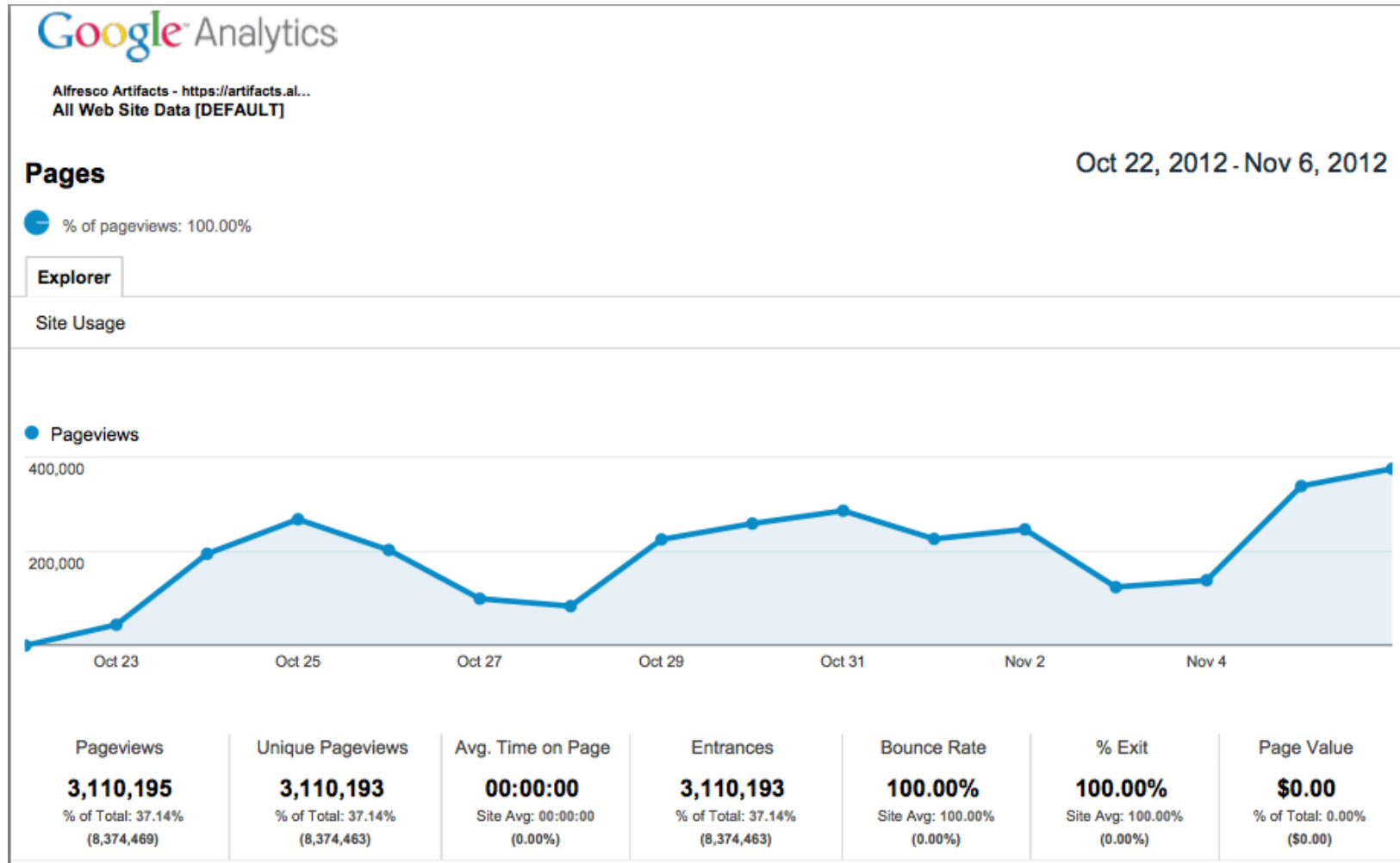
Community != Marketing

- **Community is our best asset**
 - Cannot be “controlled”
 - Cannot be “convinced”
 - Cannot be easily fooled 😊
- **Ecosystem needs to be “seeded”**
 - Turn your community into a lively ecosystem making it “easy for them”
 - Mainstream and Viral effect!
- A standard process is critical for its **sustainability!**

SDK as ecosystem enabler

- **What's possible now**
 - 2 commands, no downloads → up'n'running
 - Easy extension testing → Quality & easier support
 - Framework Integration Process reuse via archetypes
- **Community ecosystem enablement**
 - Quick evaluation and contribution
 - Zero-BS approach with archetypes (nobody likes RTFM)
- **Enterprise ecosystem enablement**
 - OEM and embedding of Alfresco (fine grained)
 - Drop all their custom Maven repositories!
 - Easy Community → Enterprise switch

A very promising start...





Maven provides a platform to build a sustainable and lively ecosystem!

Conclusion

- Community and Enterprise network require an enabling technology to build a lively framework ecosystem
- Maven is a perfect enabler for
 - Simple, minimal RTFM, product evaluation
 - Scaling from individual to enterprise processes seamlessly
 - Opening up a black box in a controlled way!
 - Enabling integration process reuse (via archetypes)

Hopefully one step closer!



On a a more serious note...















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AGSM CHARITY EVENT 2011


FRI 25th NOV, 5:00PM @ ASB LOUNGE

DONATE: <http://au.movember.com/donate/team-details/id/241870/searchTerm/agsm>

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 undercover brother	 trucker	 major	 jihad jack
 connoisseur	 regent	 business man	 after eight

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JOIN US! SEARCH "AGSM MOVEMBER" 

So happy *Mavember* everyone!

Please join us to raise much needed
funds for Men's Health at the

MAVEMBER



Danke!

References

[Alfresco Software](#)

[Maven Alfresco SDK](#)

[Alfresco SDK Parent POM](#)

[Alfresco 4.2.b Platform Distribution POM](#)

[Alfresco Artifacts Repository](#)

Join the community

- [Alfresco Software](#)
- [Maven Alfresco Community](#)
- [Maven Alfresco on GoogleCode](#)
- Twitter
 - @mindthegabz