jgitver Documentation

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Quickstart

The main documentation for the site is organized into a couple sections:

CHAPTER 1

Introduction

jgitver in essence is a set of tool providing auto-computation of projects versioning and comes with plugins for maven-usage and gradle-usage.

For those who can wait go directly to maven-usage or gradle-usage pages.

Main features include:

- project version calculation (semver compatible)
- standardized but configurable computations
- **0** file modification and thus **0** additional commit
- plugins for maven-usage and gradle-usage

When activated, jgitver is able for example to compute version number *à la maven* as following:

but depending on your needs, you could also configure jgitver to produce:

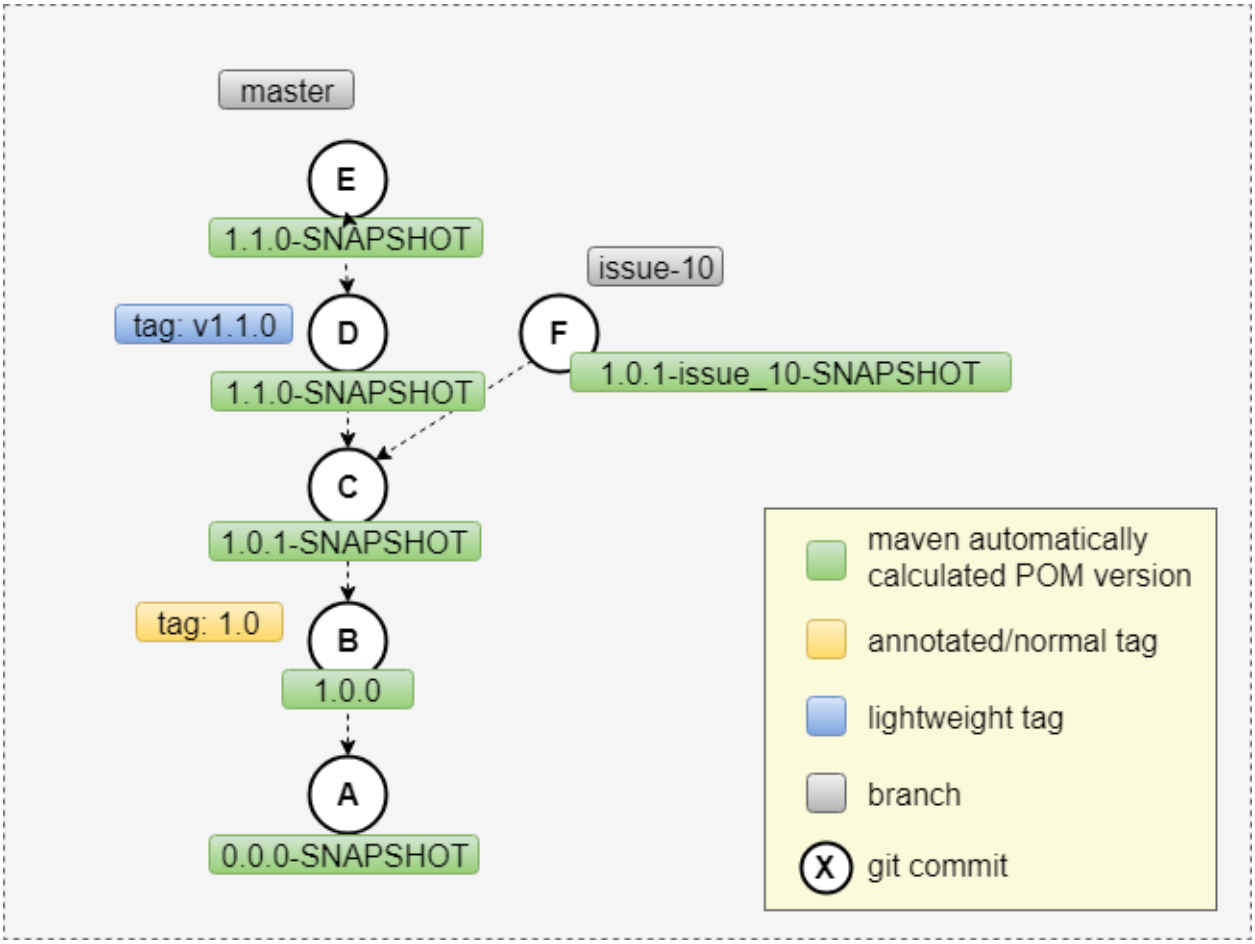


Fig. 1: jgitver in 'maven' mode

Using a maven like configuration, it is possible for your project to automatically:

- use SNAPSHOTS
- have dedicated versioning for branch
- have released versions for release tags

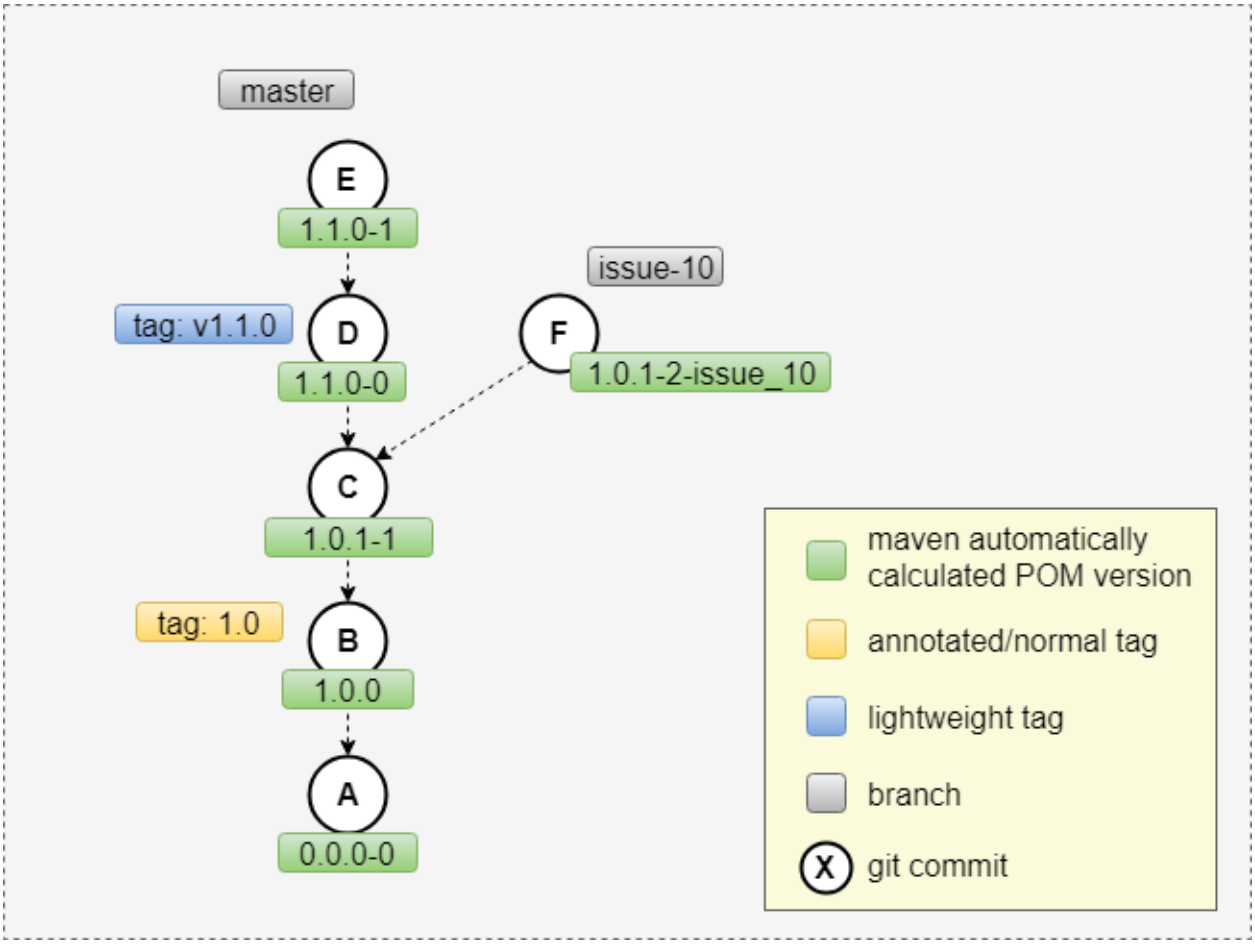


Fig. 2: jgitver producing unique versions for each commit

In this mode:

- versions are suffixed with the distance to the base tag
- have dedicated versioning for branch
- have released versions for release tags

CHAPTER 2

Clean git history

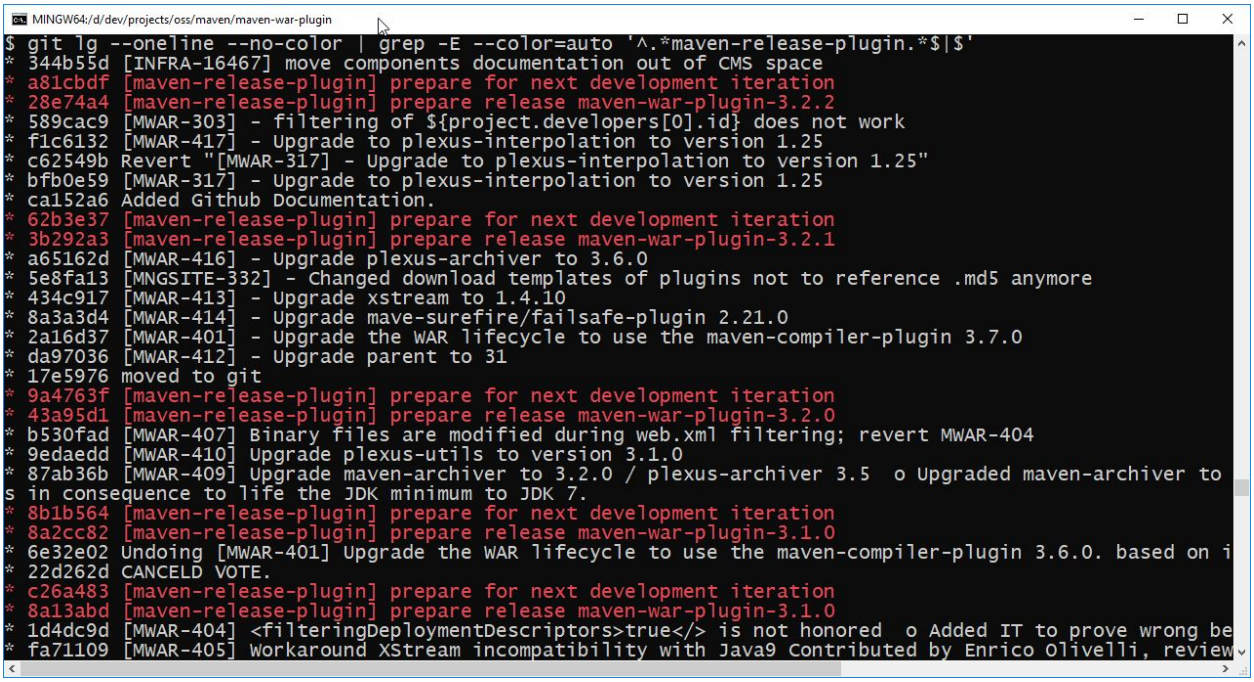
jgitver has been created with DRY & KISS principles in mind especially to keep a clean git history.

Having this in mind, jgitver has been built to allow to **NOT** modify any project descriptor (pom.xml or build.gradle).

The benefits from the above:

- no pollution of git history for unnecessary commits. Your git log contains **ONLY** business changes ; *tag & deploy* actions are enough for your project
- project version follows defined *(but configurable)* guidelines
- version can be automatically differentiated when working in branch

To summarize if you are familiar with the following unnecessary commits *(in red)* from *maven release* plugin



Then be happy to hear that *git tag* and *mvn deploy* || *gradle publish* are just enough when using jgitver.

CHAPTER 3

Maven usage

jgitver operates as a maven core extension and needs a per project installation.

Installing is as simple as running the following command from the root directory of your project *(see below for other methods)*:

```
sh -c "$(curl -fsSL https://raw.githubusercontent.com/jgitver/jgitver-maven-plugin/
↪master/src/doc/scripts/install.sh)"
```

Congratulations, your project now uses jgitver, run *mvn validate* to be convinced that jgitver works

```
$ mvn validate
[INFO] no suitable configuration file found, using defaults
[INFO] Scanning for projects...
[INFO] Using jgitver-maven-plugin [1.3.0] (sha1:␣
↪ef8eec9f820d662e63a84f1210c377183e450cbd)
[INFO] jgitver-maven-plugin is about to change project(s) version(s)
[INFO]     fr.brouillard.oss::jgitver::0 -> 0.7.0-SNAPSHOT
```

Note: As jgitver uses the maven core extension mechanism it requires a maven version >= *3.3.2*

3.1 All installation methods

All the installation scripts below will use the latest version available ; if you are updating find the latest version here or there.

3.1.1 curl

```
sh -c "$(curl -fsSL https://raw.githubusercontent.com/jgitver/jgitver-maven-plugin/
↪master/src/doc/scripts/install.sh)"
```

3.1.2 wget

```
sh -c "$(wget https://raw.githubusercontent.com/jgitver/jgitver-maven-plugin/master/
↪src/doc/scripts/install.sh -O -)"
```

3.1.3 manual installation

- Create a directory *.mvn* under the root directory of your project.
- Create file *.mvn/extensions.xml*
- Put the following content to *.mvn/extensions.xml* (adapt to latest version).

```
<extensions xmlns="http://maven.apache.org/EXTENSIONS/1.0.0" xmlns:xsi="http://www.w3.
↪org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/EXTENSIONS/1.0.0 http://maven.apache.
↪org/xsd/core-extensions-1.0.0.xsd">
  <extension>
    <groupId>fr.brouillard.oss</groupId>
    <artifactId>jgitver-maven-plugin</artifactId>
    <version>1.3.0</version>
  </extension>
</extensions>
```

CHAPTER 4

Gradle usage

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Gradle configuration

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