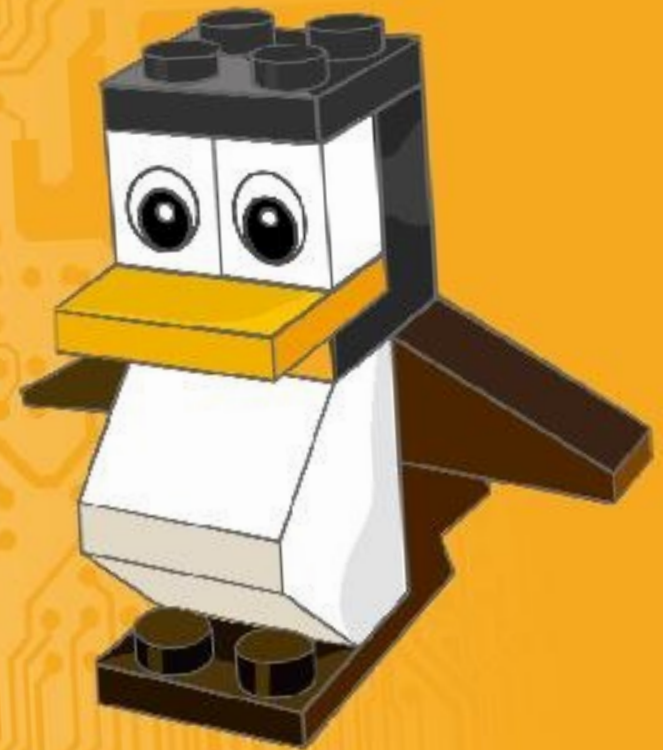


# Workflow for documentation in Open Source projects

Ronny Trommer



Spielend einfach



<https://github.com/indigo423/clt2015>



GPL freelancer  
OFE e.V.

***Hochschule Fulda***  
*University of Applied Sciences*



Research project enRZet

# Motivation

started as OpenNMS user

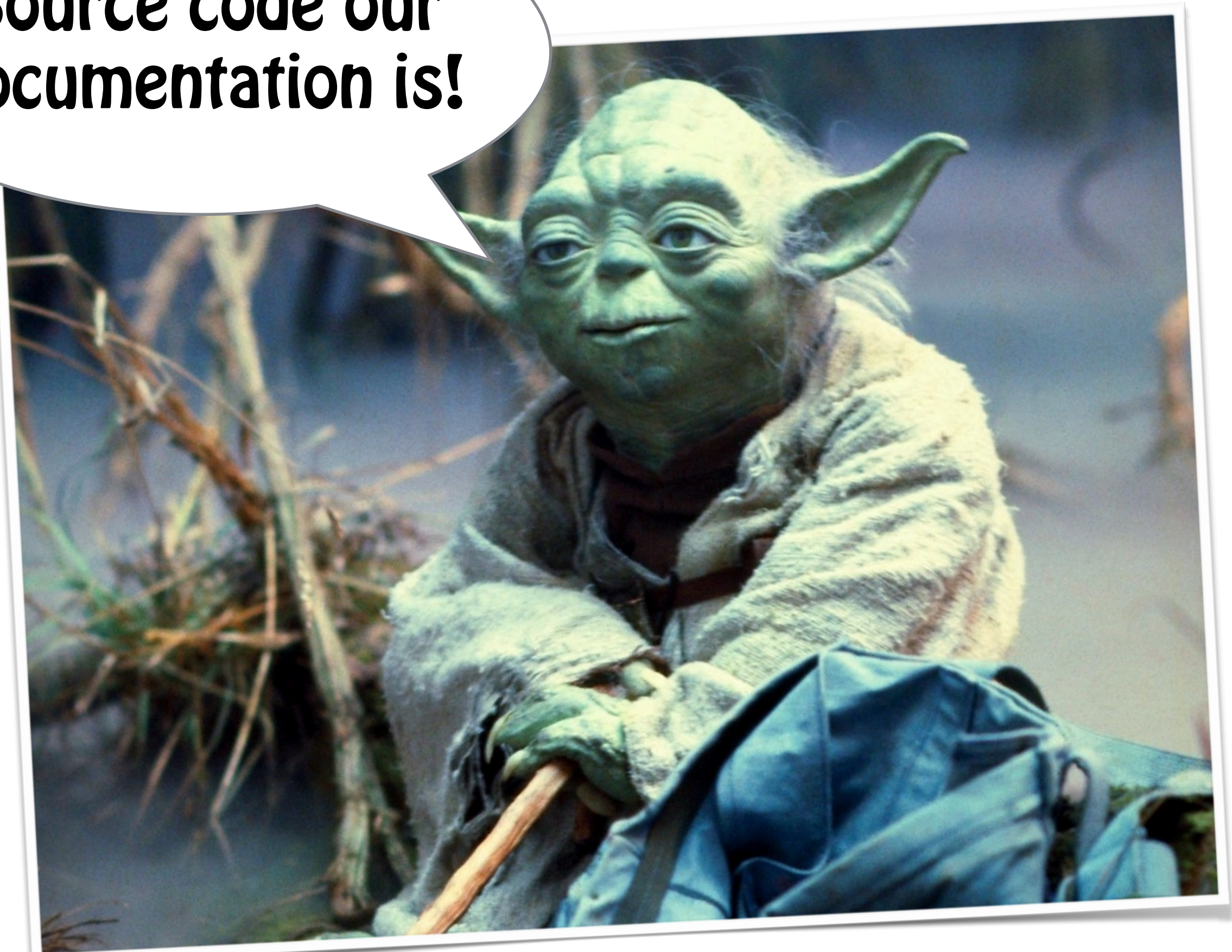
Experienced the lack of docs

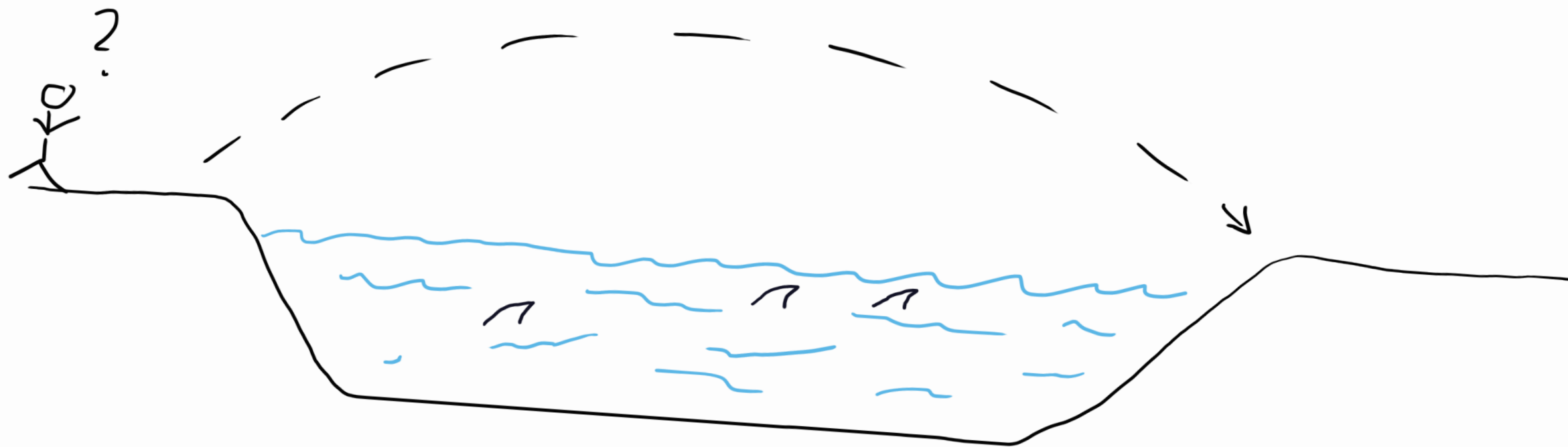
Found friends  
wrote a book

2nd Edition  
another year?



**Source code our  
documentation is!**









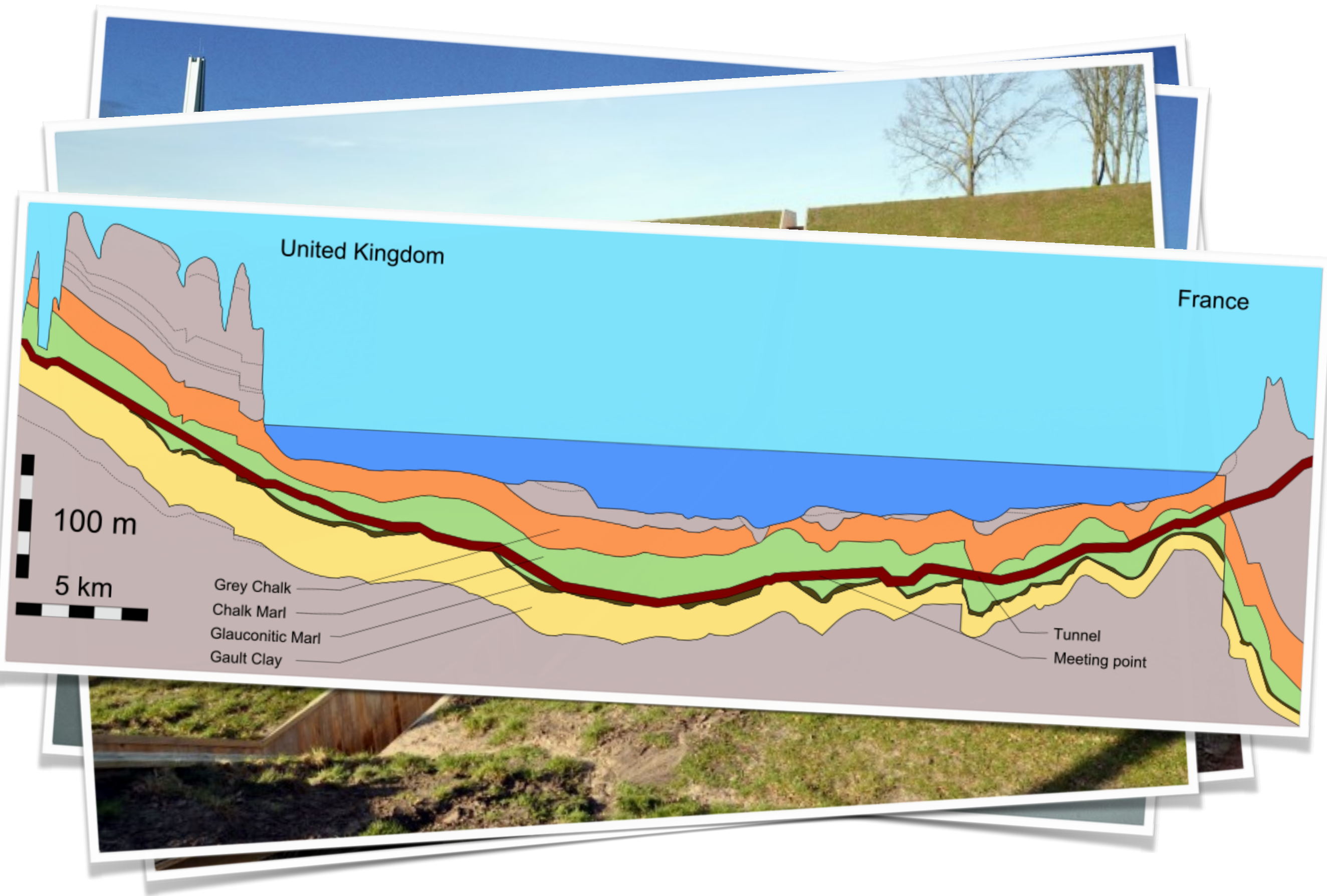














Source code is the *what*, not the **why**.



source code == documentation



**TRIPLE FACEPALM**

Not even double facepalm can explain how much you fail



```
1 /**
2  * @return Returns the xyz.
3  */
4 ▼ public String getXyz() {
5     return xyz;
6 ▲ }
7
```

# Wrong understanding of documentation

```
1 /**
2  * @return Returns the xyz.
3  */
4 ▼ public String getXyz() {
5     return xyz;
6 ▲ }
7
```



# Wrong understanding of documentation

```
1 /**  
2  * @return Returns the xyz.  
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4 ▼ public String getXyz() {  
5     return xyz;  
6 ▲ }  
7
```



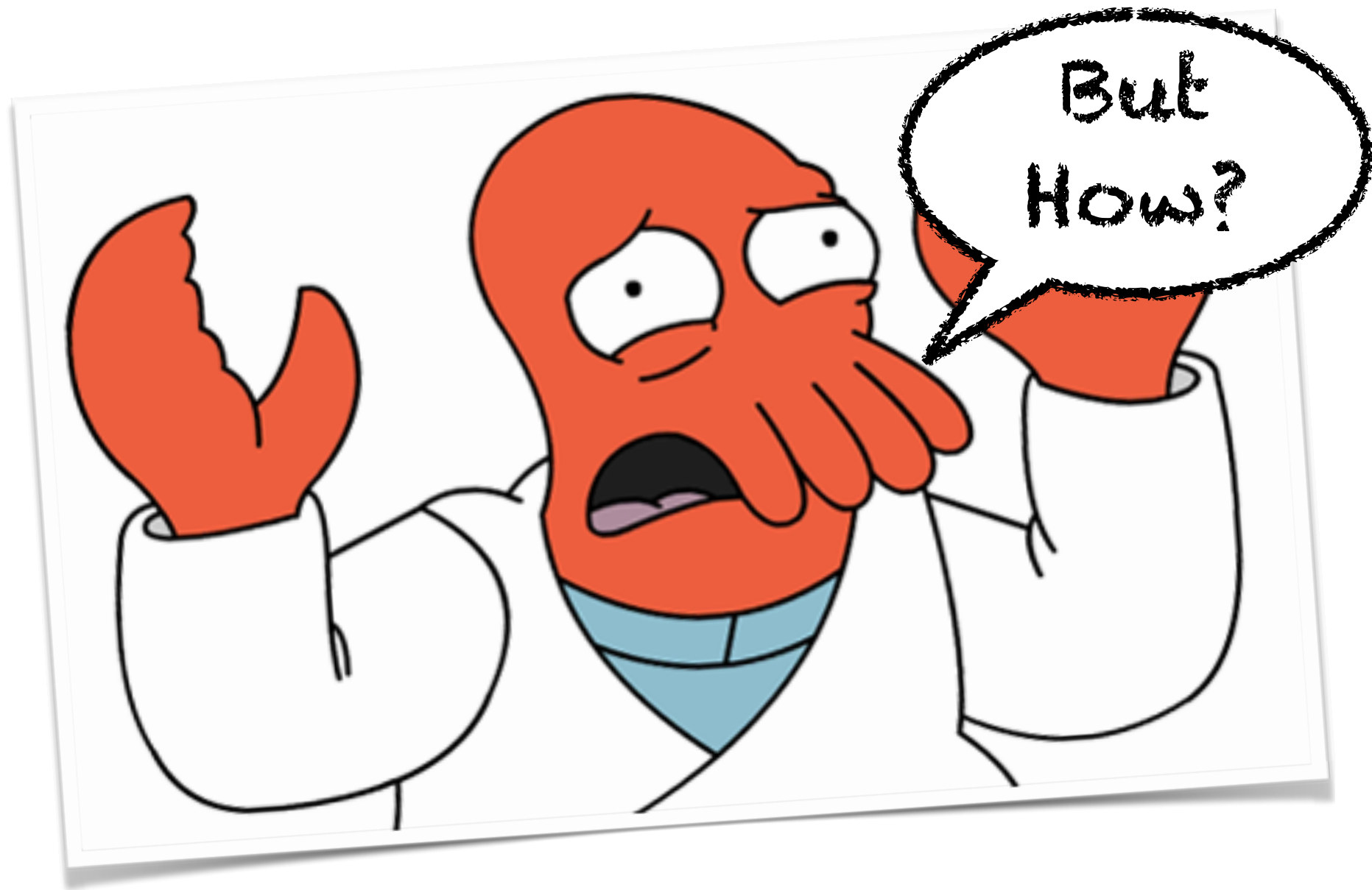
Write docs to have docs.

PHOTO: SHUTTERSTOCK



Empower people to use your software in the most efficient and right way.





shared understanding!

Problems with docs?

Outdated

It's just wrong

Explain stuff you already know

Does not exist



Problems with docs?

Outdated

Informiert den  
Techniker!

Explain stuff

How

Does not exist

Let's see ...

Wiki

OpenNMS Book

White paper

Docbook





Let's see ...

Wiki

OpenNMS Book

White paper

!! Docbook !!



# Treat docs as you treat source code

- Integration in development
- Define a workflow for contribution
- Allow tracking of documentation issues
- Integrate in review process
- Add docs to your acceptance criteria
- Iteration, Iteration, Iteration



**GitHub**



+

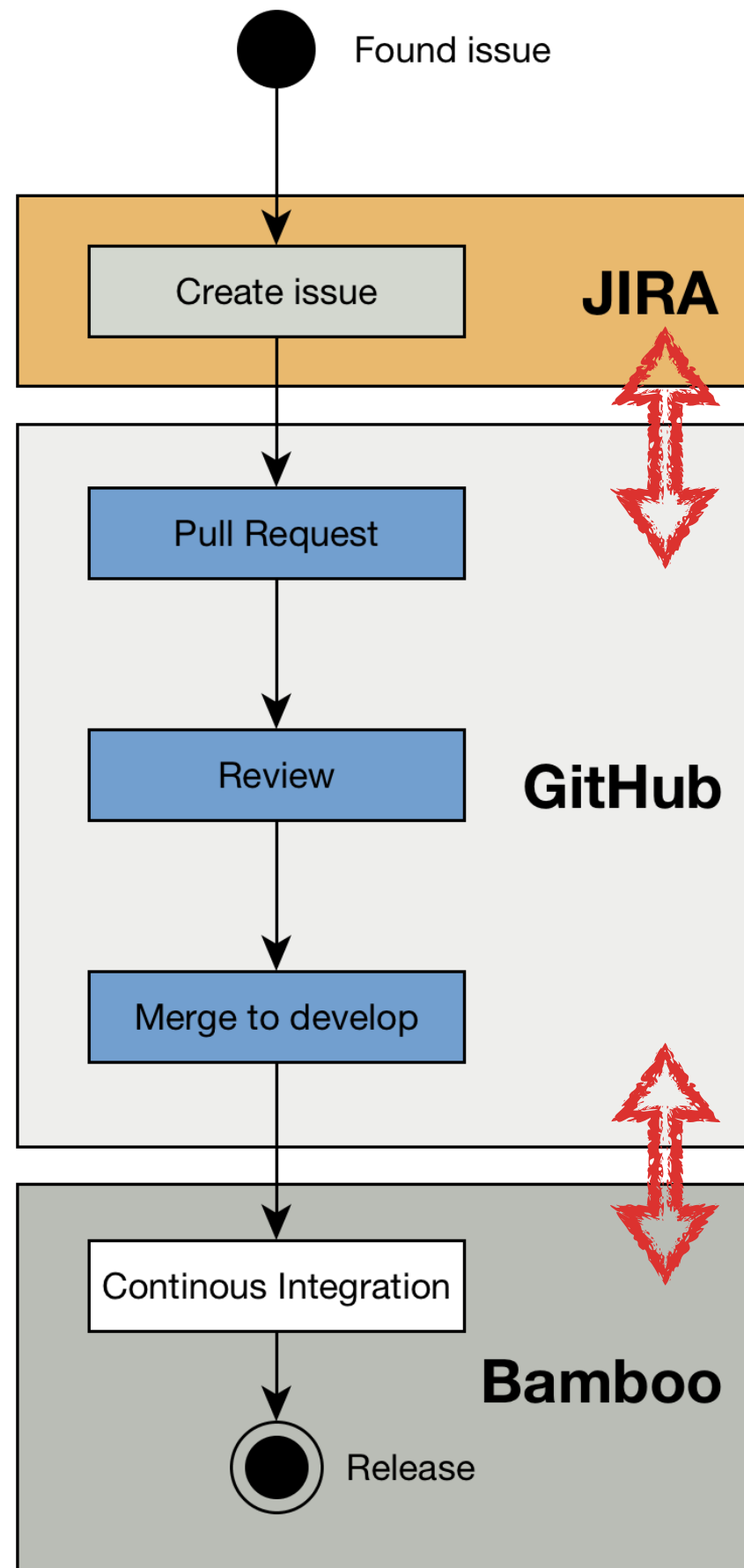


**JIRA**

+



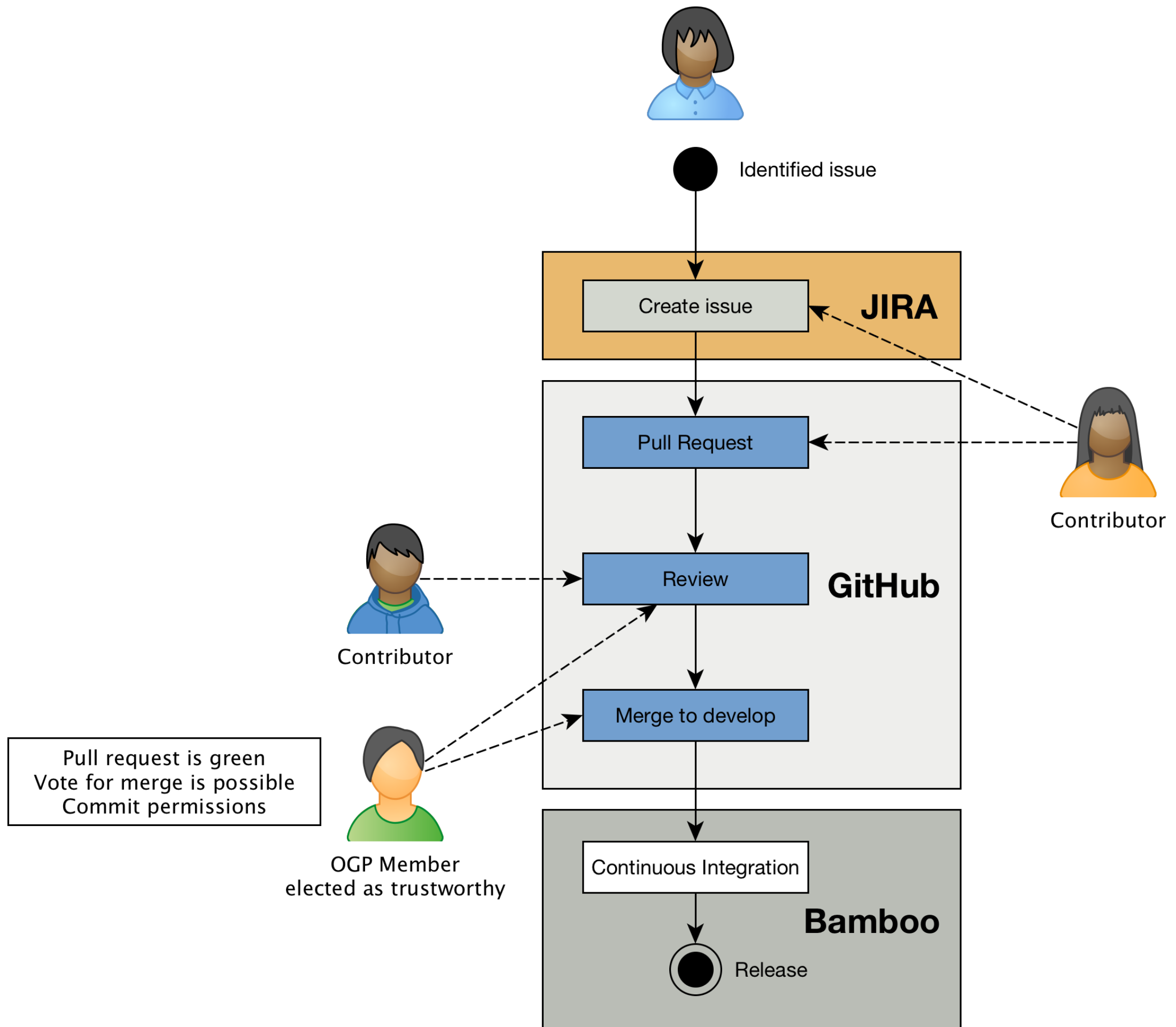
**BAMBOO**



Link by JIRA  
issue number

Driven by commits  
against branch





# Review for docs

## Formal

- What is written in monospace
- When use *italic*
- When use **bold**
- Table formatting → easier to read
- JIRA links and JIRA number



Review for docs

## Content

- Native speaker, language, grammar
- Complete
- Useful
- Iteration on Pull Request

docs.opennms.org/OpenNMS/snapshot/develop/documentation/guide-admin/#poller-dns-resolution-

Administrators Guide

1.5. Criteria Builder

2. Service Assurance

2.1. Service monitors

2.1.1. AvailabilityMonitor

2.1.2. BgpSessionMonitor

2.1.3. BSFMonitor

2.1.4. CiscoIpSlaMonitor

2.1.5. CiscoPingMibMonitor

2.1.6. CitrixMonitor

2.1.7. DhcpMonitor

2.1.8. DiskUsageMonitor

2.1.9. DnsMonitor

2.1.10. DNSResolutionMonitor

2.1.11. FtpMonitor

2.1.12.

HostResourceSwRunMonitor

2.1.13. HttpMonitor

2.1.14. HttpPostMonitor

2.1.15. HttpsMonitor

2.1.16. IcmpMonitor

2.1.17. ImapMonitor

2.1.18. JcifsMonitor

2.1.19. JDBCMonitor

2.1.20.

JDBCStoredProcedureMonitor

2.1.21. JDBCQueryMonitor

2.1.22. JolokiaBeanMonitor

2.1.23. LdapMonitor

# Administrators Guide

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## Administrative Webinterface

### 1. Operator Board

#### 1.1. Introduction

In a network operation center (*NOC*) the *Ops Board* can be used to visualize monitoring information. The monitoring information for various use-cases are arranged in configurable *Dashlets*. To address different user groups it is possible to create multiple *Ops Boards*.

There are two visualisation components to display *Dashlets*:

- *Ops Panel*: Shows multiple *Dashlets* on one screen, e.g. on a NOC operators workstation
- *Ops Board*: Shows one *Dashlet* at a time in rotation, e.g. for a screen wall in a NOC

<http://wiki.opennms.org/>



# Divide and Conquer

- What is really version control relevant
- fast vs. slow changing
- Strong related to OpenNMS version
- Slice by target group - User vs. Developer
- Search for patterns and components

Architecture

Concepts

Features

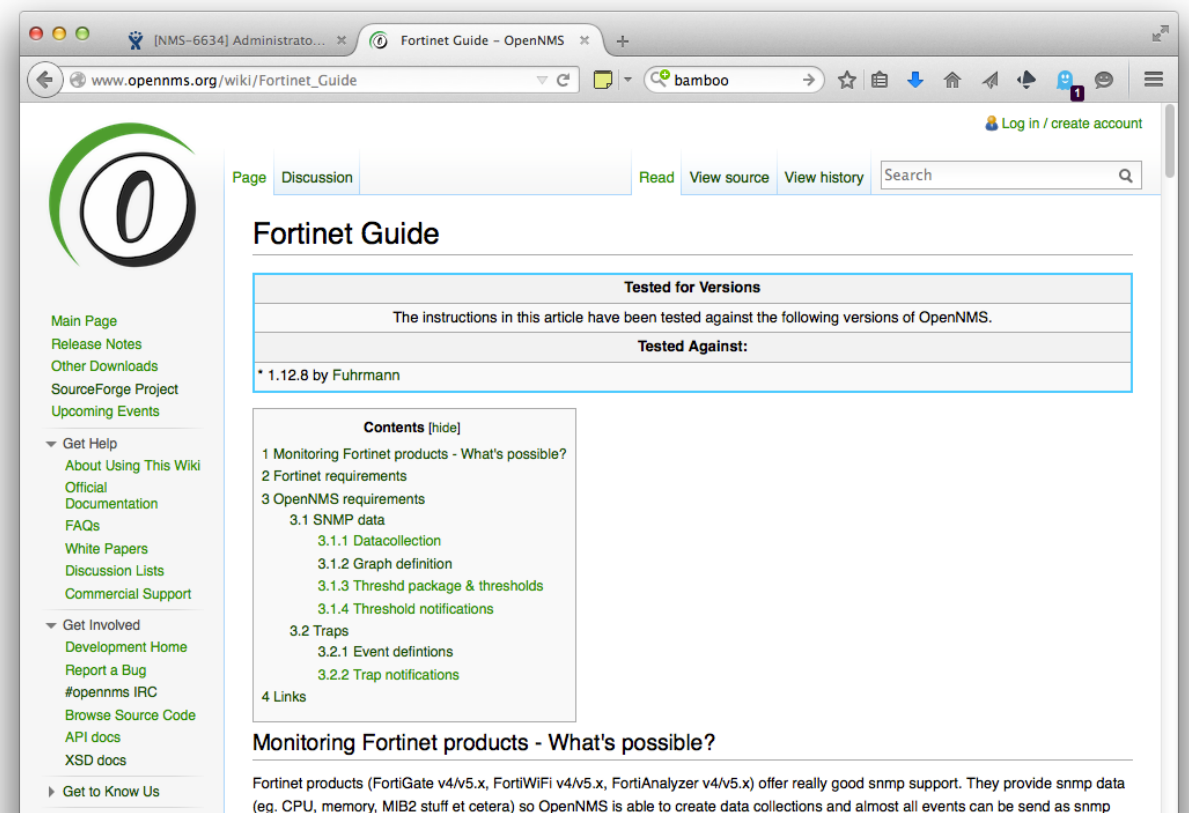
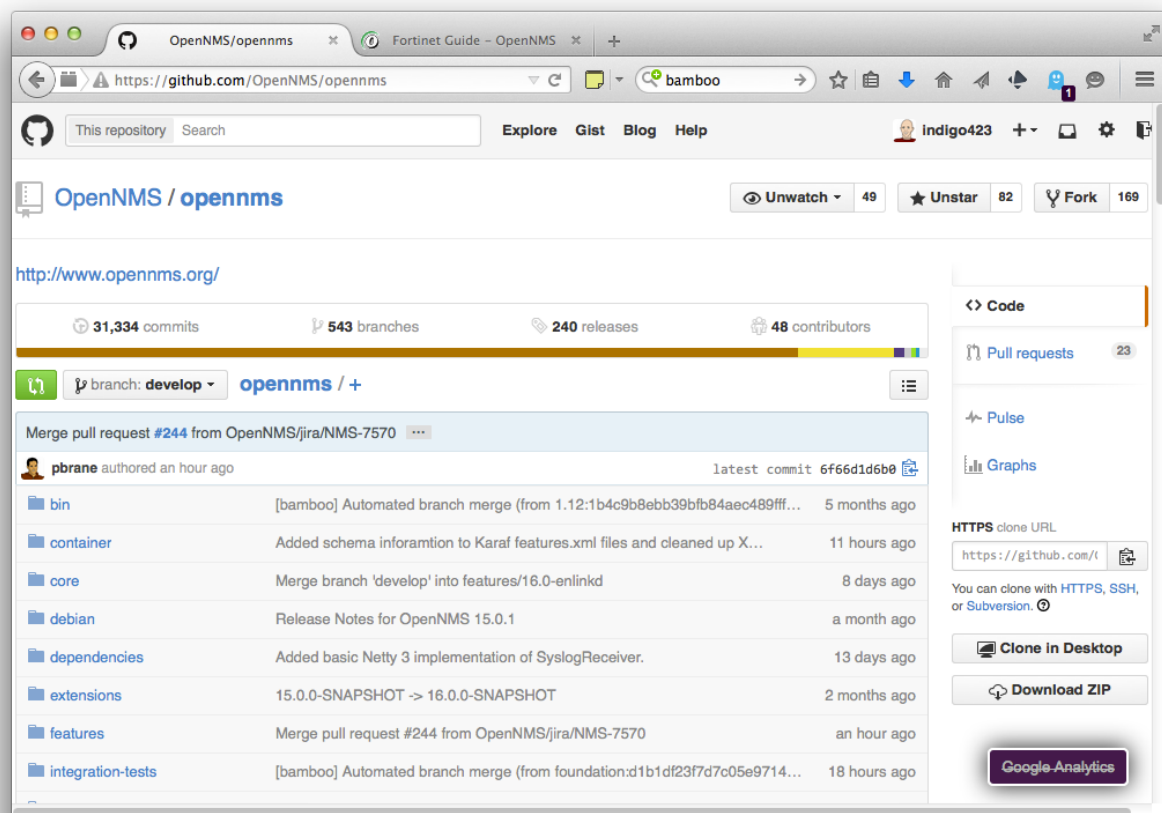
git

3rd party configs

Tutorials

Integrations

Wiki





Dashboard

Dashlet 1

...

Dashlet n

Monitors for  
service tests

Monitor 1

...

Monitor n

Data collection

Collector 1

...

Collector n



## **Name of the Monitor.** Normally the name of the class without .java

A summary what the monitor is doing. When is the monitor up or down.

### Monitor facts

Class Name	Name of the monitor class which has to be used in the poller-configuration.xml
Remote Enabled	true or false if the monitor can be used by the OpenNMS remote poller

### Configuration and Usage

Table 1. Monitor specific parameters for the <MONITORNAME-HERE>

Parameter	Description	Required	Default value
my parameter 1	This is a placeholder for the first required monitor parameter description. If you have a very long description make a soft break at line 120	required	-
my parameter 2	This is a placeholder for the second optional monitor parameter description.	optional	default value

This is optional just if you can use variables in the configuration

Table 2. Variables which can be used in the configuration

Variable	Description
----------	-------------

Parameter

Variables

issues.opennms.org/browse/NMS-6634

Search












OpenNMS / NMS-6634

Administrator can lookup all existing service monitors and their configuration parameters

EditCommentAssignMore

Start ProgressResolve IssueClose IssueAdmin

Export

9. ✓	CiscopSlaMonitor		CLOSED	Unassigned
10. ✓	CiscoPingMibMonitor		CLOSED	Unassigned
11. ✓	CitrixMonitor		CLOSED	Ronny Trommer
12. ✓	DiskUsageMonitor		CLOSED	Ronny Trommer
13. ✓	DNSResolutionMonitor		CLOSED	Unassigned
14.	DominolIOPMonitor		OPEN	Unassigned
15.	DskTableMonitor		OPEN	Unassigned
16. ✓	FtpMonitor		CLOSED	Marcel Fuhrmann
17.	GpMonitor		OPEN	Unassigned
18. ✓	HostResourceSwRunMonitor		CLOSED	Ronny Trommer
19. ✓	HttpPostMonitor		CLOSED	Ronny Trommer



Documentation - Agile Bo...

issues.opennms.org/secure/RapidBoard.jspa?rapidView=34&selectedIssue=NMS-6

Search

Star, Download, Home, Search, User

openNMS

Dashboards, Projects, Issues, Agile

Create

Search, Help, Settings, User

Documentation

Backlog, Active sprints, Reports, Board

SPRINT: Sprint 2, QUICK FILTERS: Only My Issues, Recently Updated

To Do	In Progress	Review	Done
NMS-6634 78 sub-tasks Administrator can lookup all existing service monitors and their configuration parameters			
<div>NMS-6679 ↑ PageSequenceMonitor</div>		<div>NMS-6691 ↑ TcpMonitor</div>	<div>NMS-6652 ↑ HttpMonitor</div>
<div>NMS-6685 ↑ SntpMonitor</div>		<div>NMS-6700 ↓ RadiusAuthMonitor</div>	<div>NMS-6638 ↑ AvailabilityMonitor</div>
<div>NMS-6680 ↑ PassiveServiceMonitor</div>		<div>NMS-6675 ↑ NrpeMonitor</div>	<div>NMS-6639 ↑ BgpSessionMonitor</div>
<div>NMS-6670 ↓ LoopMonitor</div>			<div>NMS-6640 ↑ BSFMonitor</div>
<div>NMS-6650 ↑ GpMonitor</div>			<div>NMS-6684 ↑ SmbMonitor</div>

OpenNMS - OpenNMS - D... Documentation Guide

docs.opennms.org/OpenNMS/snapshot/develop/documentation/guide-doc/ continuous integration

## Table of Contents

- 1. Introduction
- 2. Overall Layout
- 3. File Structure in 'opennms-doc'
- 4. Issues in JIRA and GitHub workflow
  - 4.1. Example workflow creating documentation
    - 4.1.1. Work on your computer locally
    - 4.1.2. Work with the GitHub Web editor
    - 4.1.3. Send the Pull Request
- 5. Writing
  - 5.1. Conventions for text formatting
  - 5.2. Gotchas
- 6. Headings and document structure

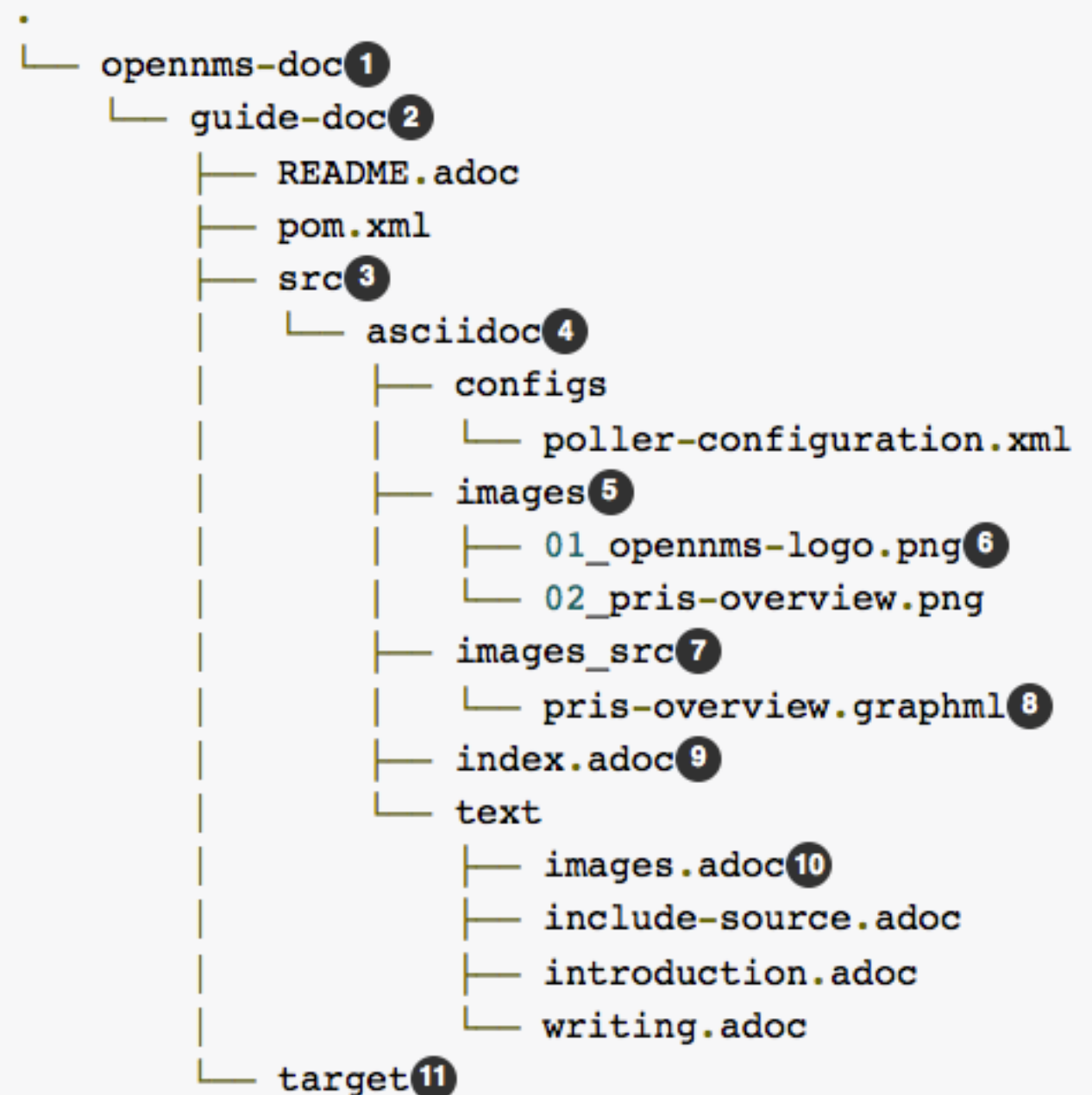
# Documentation Guide

Copyright (c) 2014 The OpenNMS Group, Inc. – OpenNMS V16.0.0-SNAPSHOT,  
Last updated 2015-03-20 03:33:09 EDT

## 1. Introduction

This document is the guideline for people who want to create documentation for the OpenNMS project. The project is open source, contribution of any kind is welcome. The rules and guidelines outlined here to maintain consistency.

## 2. Overall Layout



Ascii for the win

Low barrier to edit

Version controlled





# Markdown

Some evaluation



DocBook.org

AsciiDoc

Text based

Asciidoctor

A fast text processor & publishing toolchain for  
converting AsciiDoc to HTML5, DocBook & more.

L<sup>A</sup>T<sub>E</sub>X



# AsciiDoc

Text based doc

## Asciidoctor

A *fast* text processor & publishing toolchain for converting AsciiDoc to HTML5, DocBook & more.

"If Markdown is a 1st-grader, then AsciiDoc is a PhD student."

— Dan Allen - project lead for Asciidoctor



# AsciiDoc

Text based doc

## Asciidoctor

A *fast* text processor & publishing toolchain for converting AsciiDoc to HTML5, DocBook & more.

Maven support

Features

Allows multiple outputs

GitHub support

Themes for  
PDF and HTML







This repository Search

Explore Gist Blog Help



Indigo423

+ -



OpenNMS / opennms

Unwatch

49

Unstar

82

Fork

169

opennms / opennms-doc / guide-admin / src / asciidoc / text / poller / StrafePingMonitor.adoc



or cancel

Edit file

Preview changes

Spaces

No wrap



```
1 // Allow GitHub image rendering
2 :imagesdir: ../../images
3
4 ==== StrafePingMonitor
5
6 This monitor is used to monitor http://en.wikipedia.org/wiki/Packet_delay_variation[packet delay variation] to a specific endpoint.
7 The main use case is to monitor a WAN end point and visualize packet loss and ICMP packet round trip time deviation.
8 The StrafePingMonitor performs multiple ICMP echo requests (ping) and stores the response-time of each as well as the packet loss.
9 Credit is due to Tobias Oetiker, as this graphing feature is an adaptation of the http://oss.oetiker.ch/smokeping/[SmokePing] tool.
10
11 .Visualization of a graph from the StrafePingMonitor
12 image::poller/01_strafeping.png[]
13
14 ===== Monitor facts
15
16 [options="autowidth"]
17 |===
18 | Class Name      | `org.opennms.netmgt.poller.monitors.StrafePingMonitor`
19 | Remote Enabled  | false
20 |===
21
22 ===== Configuration and Usage
23
24 Monitor specific parameters for the StrafePingMonitor
25 [options="header, autowidth"]
26 |===
27 | Parameter      | Description                                                                                               | Required | Default
28 | `timeout`      | Time in milliseconds to wait before assuming that a packet has not responded | optional | `8000`
29 | `retry`        | The number of retries to attempt when a packet fails to respond in the given timeout | optional | `2`
30
```



## StrafePingMonitor

This monitor is used to monitor [packet delay variation](#) to a specific endpoint using *ICMP*. The main use case is to monitor a *WAN* end point and visualize packet loss and *ICMP* packet round trip time deviation. The *StrafePingMonitor* performs multiple *ICMP echo requests* (ping) and stores the response-time of each as well as the packet loss, in a *RRD* file. Credit is due to Tobias Oetiker, as this graphing feature is an adaptation of the [SmokePing](#) tool that he developed.

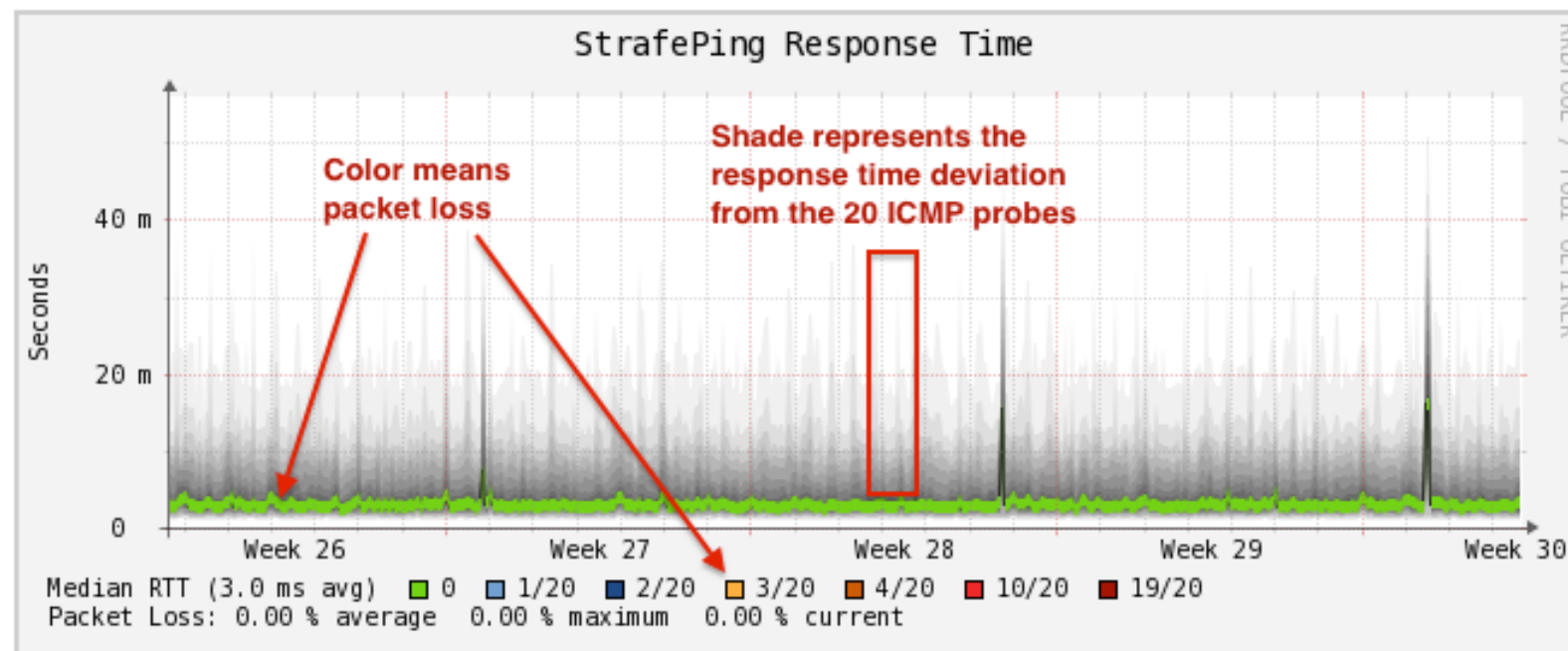


Figure 1. Visualization of a graph from the StrafePingMonitor

### Monitor facts

Class Name	<code>org.opennms.netmgt.poller.monitors.StrafePingMonitor</code>
Remote Enabled	false

### Configuration and Usage


Monitor specific parameters for the StrafePingMonitor

Issues · OpenNMS/opennms


https://github.com/OpenNMS/opennms/labels/docs


Search

☆📁↓🏠🚀👤🗨️☰

 This repository Search

ExploreGistBlogHelp

 Indigo423 + 📄 ⚙️ 📧

 OpenNMS / opennms

👁️ Unwatch 49

★ Unstar 82

🍴 Fork 169

Pull requestsLabelsMilestones


Filters is:open label:docs

New Issue

✕ Clear current search query, filters, and sorts


☐ ⓘ 7 Open ✓ 14 Closed

AuthorLabelsMilestonesAssigneeSort

☐  **NMS-7536: ReST API documentation** docs


#239 opened 10 days ago by indigo423 0 of 2

0

☐  **LTS-126: Create JasperReport template guideline** docs


#238 opened 11 days ago by indigo423 0 of 4

0

☐  **NMS-6675: Documentation NrpeMonitor** docs enhancement


#171 opened on Nov 17, 2014 by indigo423 0 of 2

0

☐  **NMS-6700: Documentation RadiusAuthMonitor** docs enhancement


#170 opened on Nov 16, 2014 by indigo423 0 of 2

0

☐  **NMS-6711: Documentation VmwareMonitor** docs enhancement


#169 opened on Nov 14, 2014 by indigo423 0 of 2

1

☐  **NMS-6710: Documentation VmwareCimMonitor** docs enhancement

#168 opened on Nov 14, 2014 by indigo423 0 of 2

1

☐  **NMS-6691: Documentation TcpMonitor** docs enhancement

#167 opened on Nov 14, 2014 by indigo423 0 of 2

0

💡 ProTip! Find everything you created by searching `author:indigo423`.



## yEd Graph Editor

### Downloads

#### Download yEd 3.14.1

The current version is **3.14.1**. To check your version, open the **Help** menu and choose **About**.

##### Download

##### Notes

**yEd for Windows**  
(54.7 MB)

yEd installer for 32-bit Windows Vista, 7, and 8. Includes a suitable Java 8 JRE. For 64-bit Windows installers or installation on Windows XP, see "More downloads..." below.

**yEd for Mac OS X**  
(97 MB)

yEd installer for Mac OS X 10.8 or higher. Includes its own embedded Java 8 JRE. For installation on earlier Mac OS X versions, see "More downloads..." below.

**yEd for Linux**  
(64 MB)

yEd installer script for 64-bit Linux systems. Either `chmod +x` first, or execute using `sh`. Includes a suitable Java 8 JRE.

**yEd**  
**(executable Jar)**  
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Zipped yEd Jar file. Requires an installed JRE 6 or higher.

Graph UML + PNG

OS independent

Free of charge

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redistribution and  
use in automation





AsciiDoc

GitHub

JIRA

yEd

establish some rules ...







Easier diffs

Less conflicts

Identify too long sentences

Sentence beginning

NMS-6710: Documentation VMwareCimMonitor #168

Open Indigo423 wants to merge 6 commits into OpenNMS:develop from indigo423:NMS-6710-Documentation-VMwareCimMonitor

Conversation 1 Commits 6 Files changed 2

indigo423 commented on Nov 14, 2014 Collaborator

- Create documentation for VMwareCimMonitor

JIRA: <http://issues.opennms.org/browse/NMS-6710>

Todo Review:

- ☐ Native speaker review
- ☐ Merge to develop and close JIRA issue

indigo423 added some commits on Nov 14, 2014

- NMS-6710: Documentation VMwareCimMonitor ... 5b39b6c
- Update VMwareCimMonitor.adoc ... b4b1f6a
- Update VMwareCimMonitor.adoc ... 03e49a2

indigo423 commented on Nov 17, 2014 Collaborator

Content reviewed by @christianpape

Merge branch 'develop' into NMS-6710-Documentation-VMwareCimMonitor d9ed086

indigo423 added the enhancement label on Dec 3, 2014

OpenNMS / NMS-6634 Administrator can lookup all existing service monitors and their config VMwareCimMonitor

Agile Board

Details

Type:	Sub-task	Status:	REOPENED
Priority:	Major	Resolution:	Unresolved
Affects Version/s:	None	Fix Version/s:	None
Component/s:	Documentation	Security Level:	Default (Default Security Scheme)
Labels:	None		
Sprint:	Sprint 1, Sprint 2		

Issue Links

blocks

NMS-7213 VMware CIM monitor should be configurable to allow ... OPEN

Activity

All Comments Work Log History Activity

Ronny Trommer added a comment - 14/Nov/14 2:28 PM

Review pull request: <https://github.com/OpenNMS/opennms/pull/168>

Ronny Trommer added a comment - 2 days ago

Not merged yet, review required.

Atlassian JIRA Project Management Software (v6.3.15#6346-sha1:dbc023d) · About

Powered by a free Atlassian JIRA open source license for OpenNMS. Try JIRA - bug track



```
commit 44247b0a0de93781e1366031145ccb8eff75e10c
Merge: 102a69f a9ff9bb
Author: Ronny Trommer <ronny@opennms.org>
Date: Sun Feb 15 23:02:32 2015 +0100
```

**Author:** Ronny Trommer <ronny@opennms.org>  
**Date:** Sun Feb 15 23:02:32 2015 +0100

[Open](#) [Indig](#) **Date:** Sun Feb 15 23:02:32 2015 +0100

Merge pull request #223 from indigo423/NMS-7460-doc-as-pdf

- **NMS-7460: Generate documentation as PDF**

```
commit 5907a7797902e50f43e60fee9d24ef679869bcbd
Author: Ronny Trommer <ronny@opennms.org>
Date: Thu Feb 12 22:29:45 2015 +0100
```

```
Author: Ronny Trommer <ronny@opennms.org>  
Date: Thu Feb 12 22:29:45 2015 +0100
```

Date: Thu Feb 12 22:29:45 2015 +0100

**NMS-7460:** Documentation generate as PDF

- Added dependencies for asciidocj
- Added dependencies for asciidocj-pdf
- Added version attributes in main pom

## Credits:

Neo4j for AsciiDoc format conventions

Spring for pointing us to AsciiDoc

AsciiDoctor for building the cool tool chain

Friends and community members for discussions