

Workflow for documentation in Open Source projects



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University of Applied Sciences



Research project enRZet

Motivation

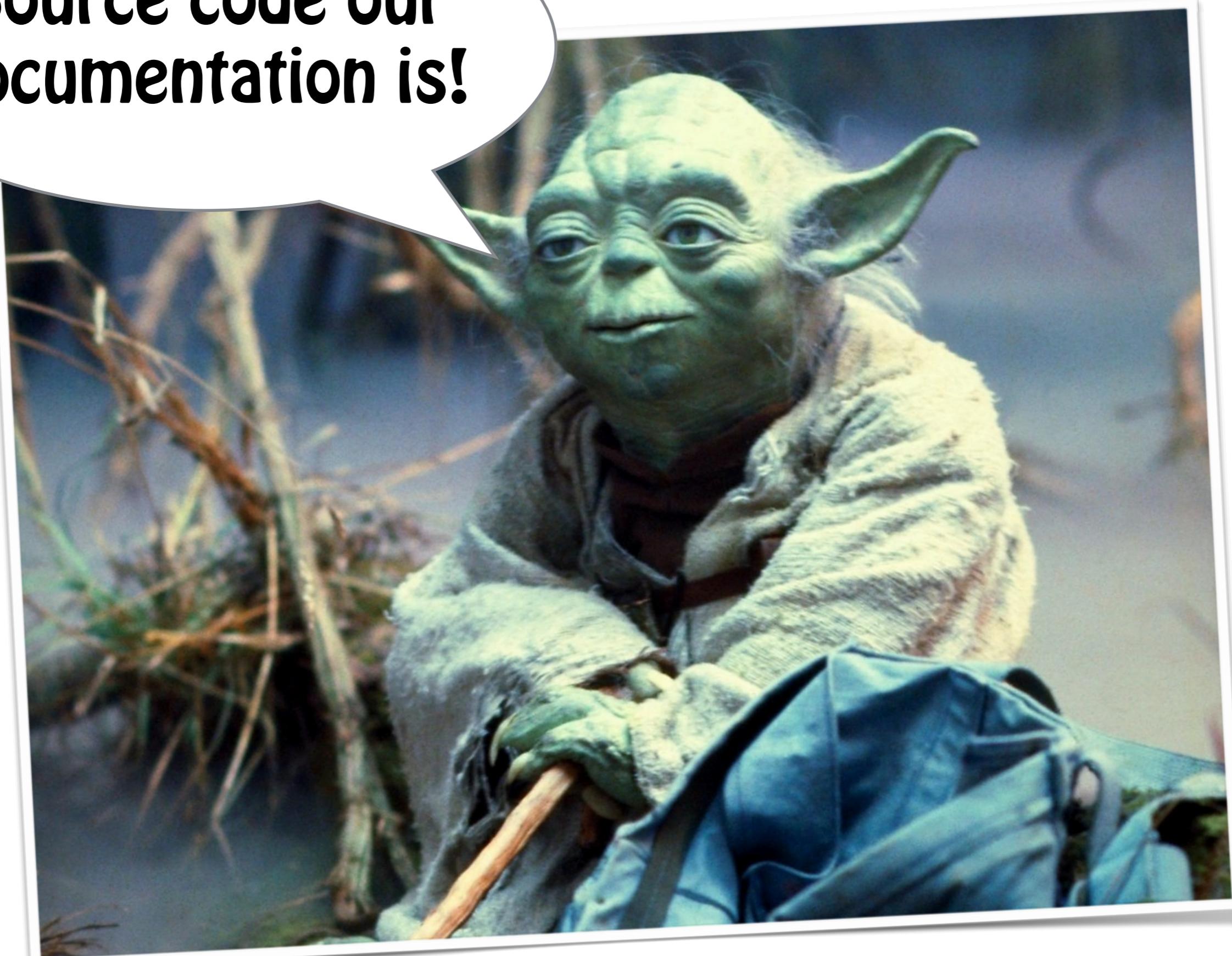
started as OpenNMS user

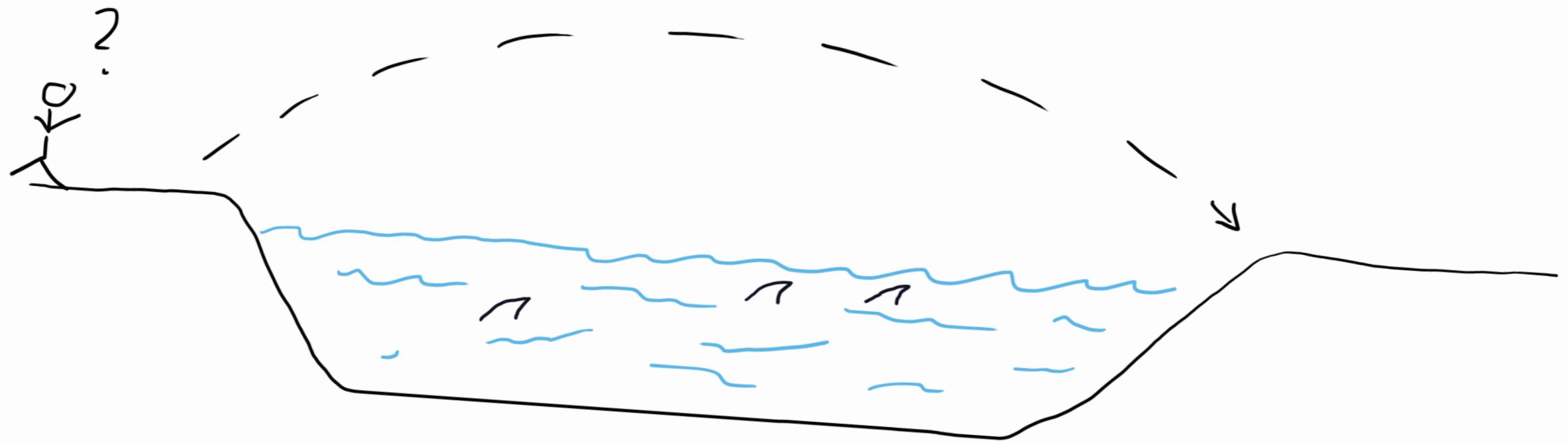
Experienced the lack of docs

Found friends
wrote a book

2nd Edition
another year?

**Source code our
documentation is!**

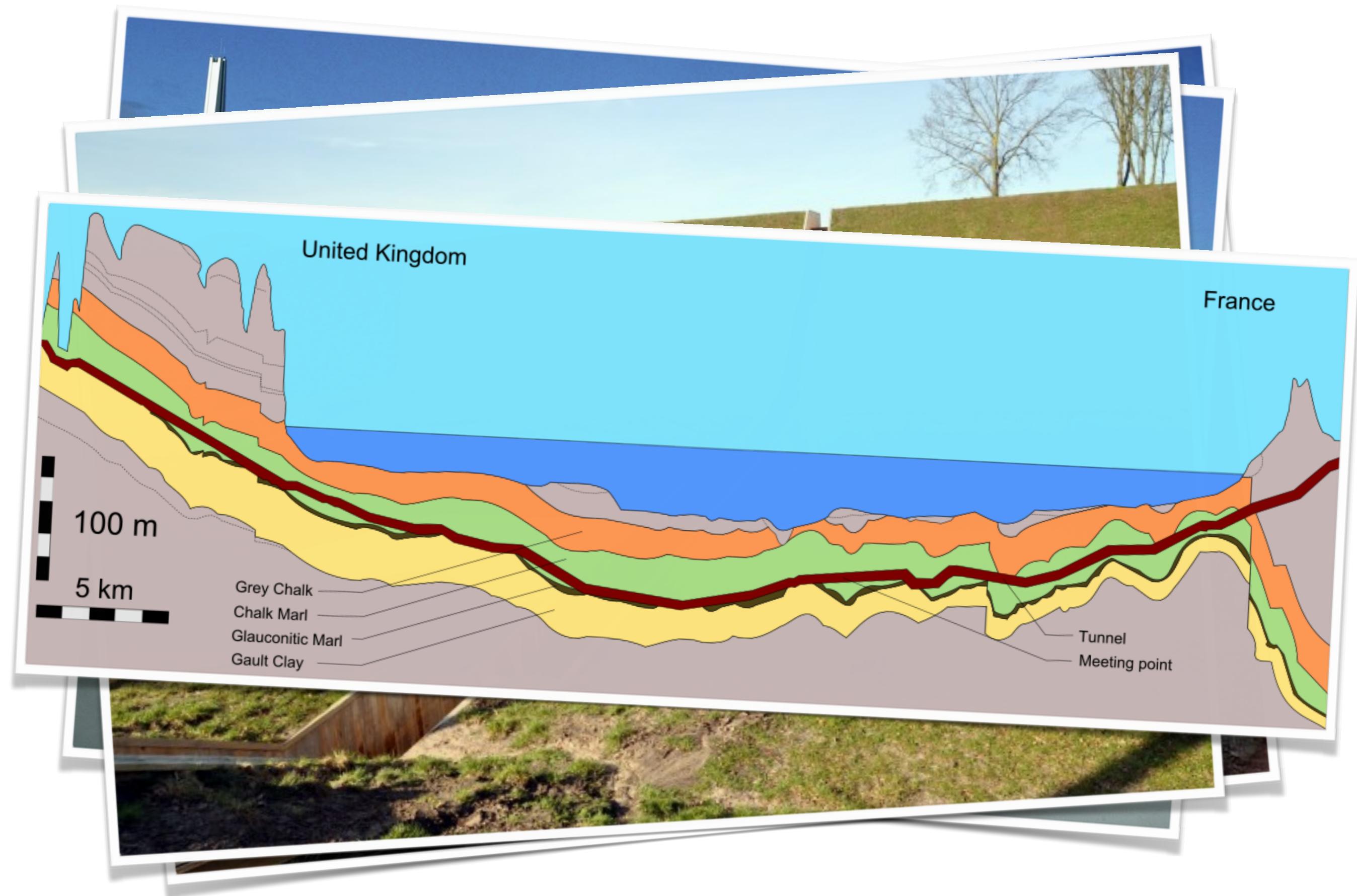












Source code is the what, not the why.

source code == documentation



TRIPLE FACEPALM

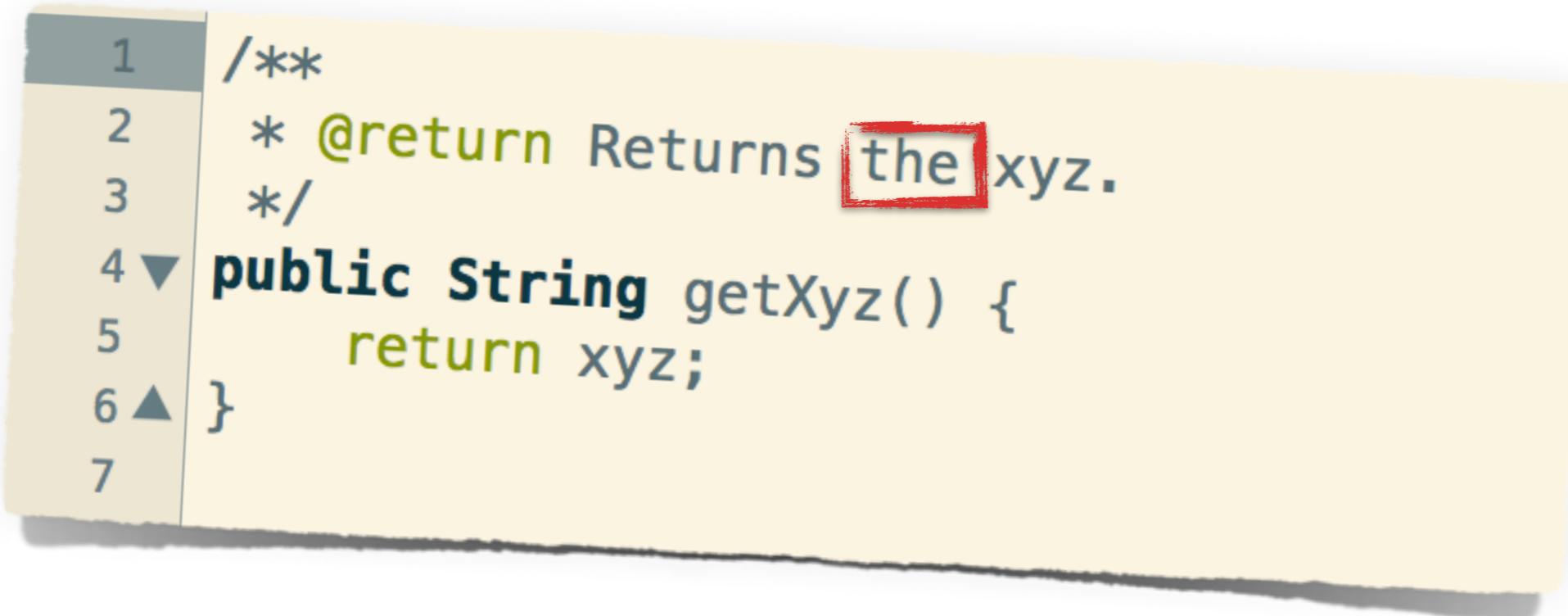
Not even double facepalm can explain how much you fail

```
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 }
```

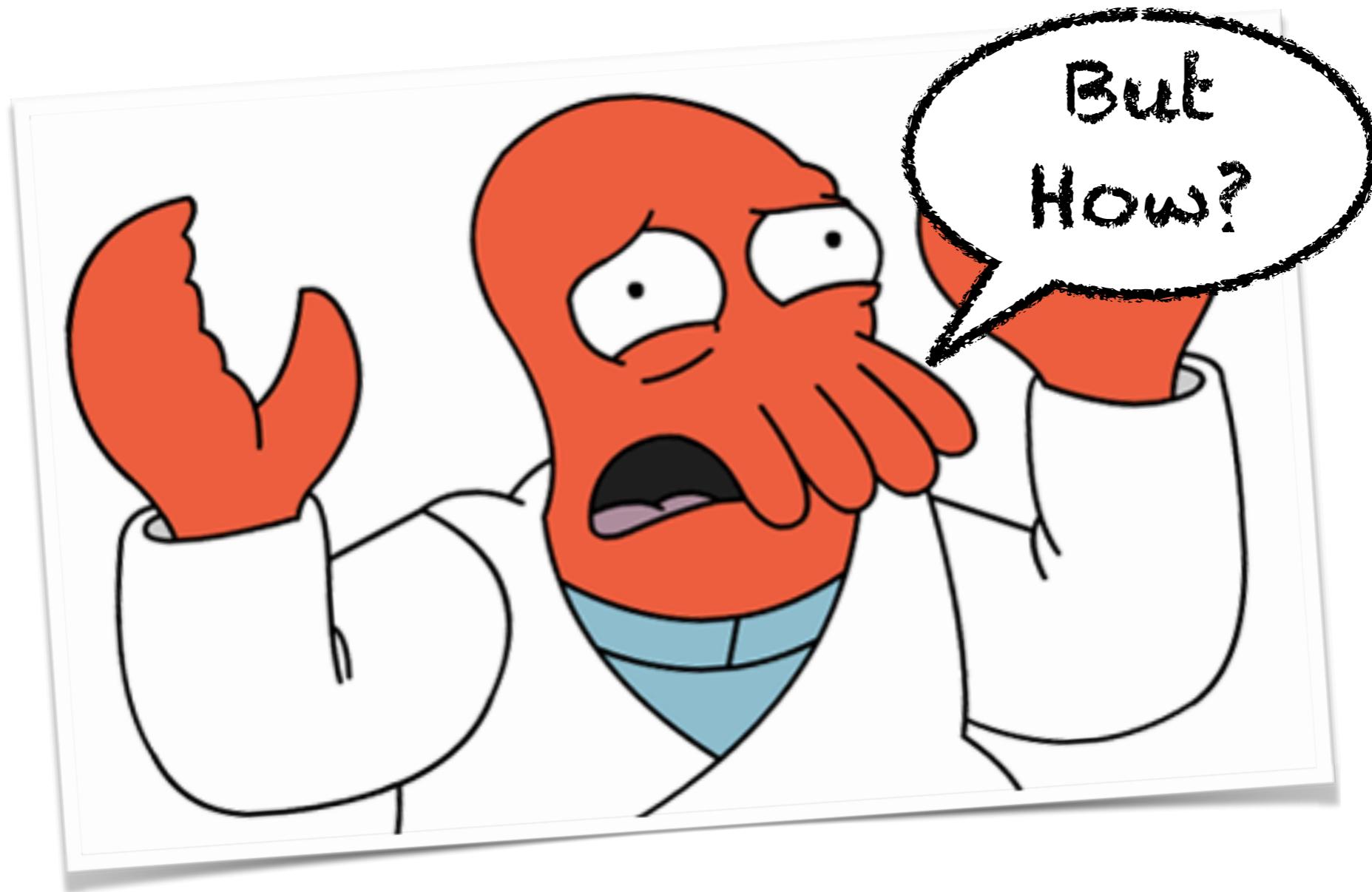
Wrong understanding of documentation



Write docs to have docs.



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Outdated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Outdated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 how

now

Does not list

Let's see ...

Wiki

OpenNMS Book

White paper

Docbook



Let's see ...

Wiki

OpenNMS Book

White paper

!! Docbook !!



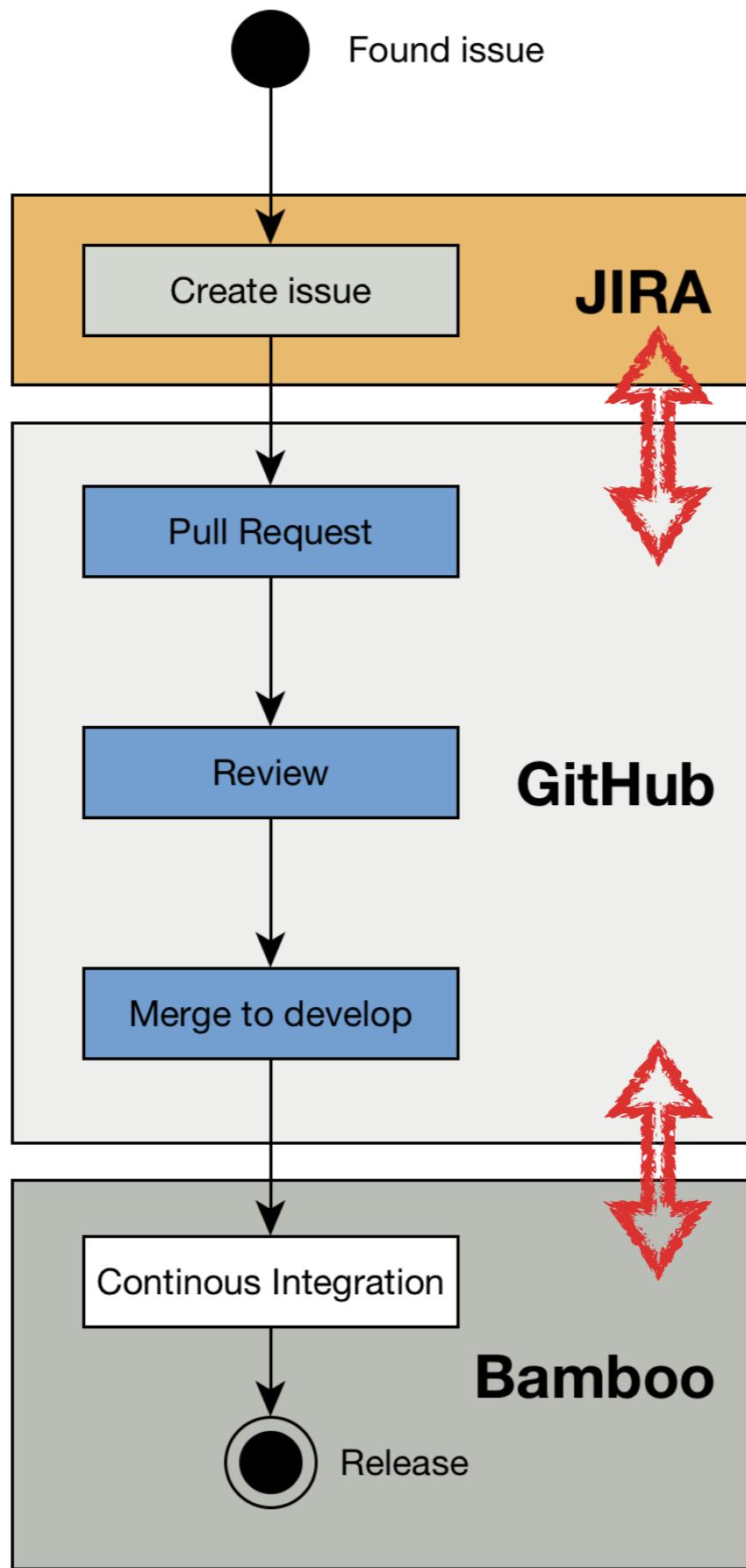
Treat docs as you treat source code

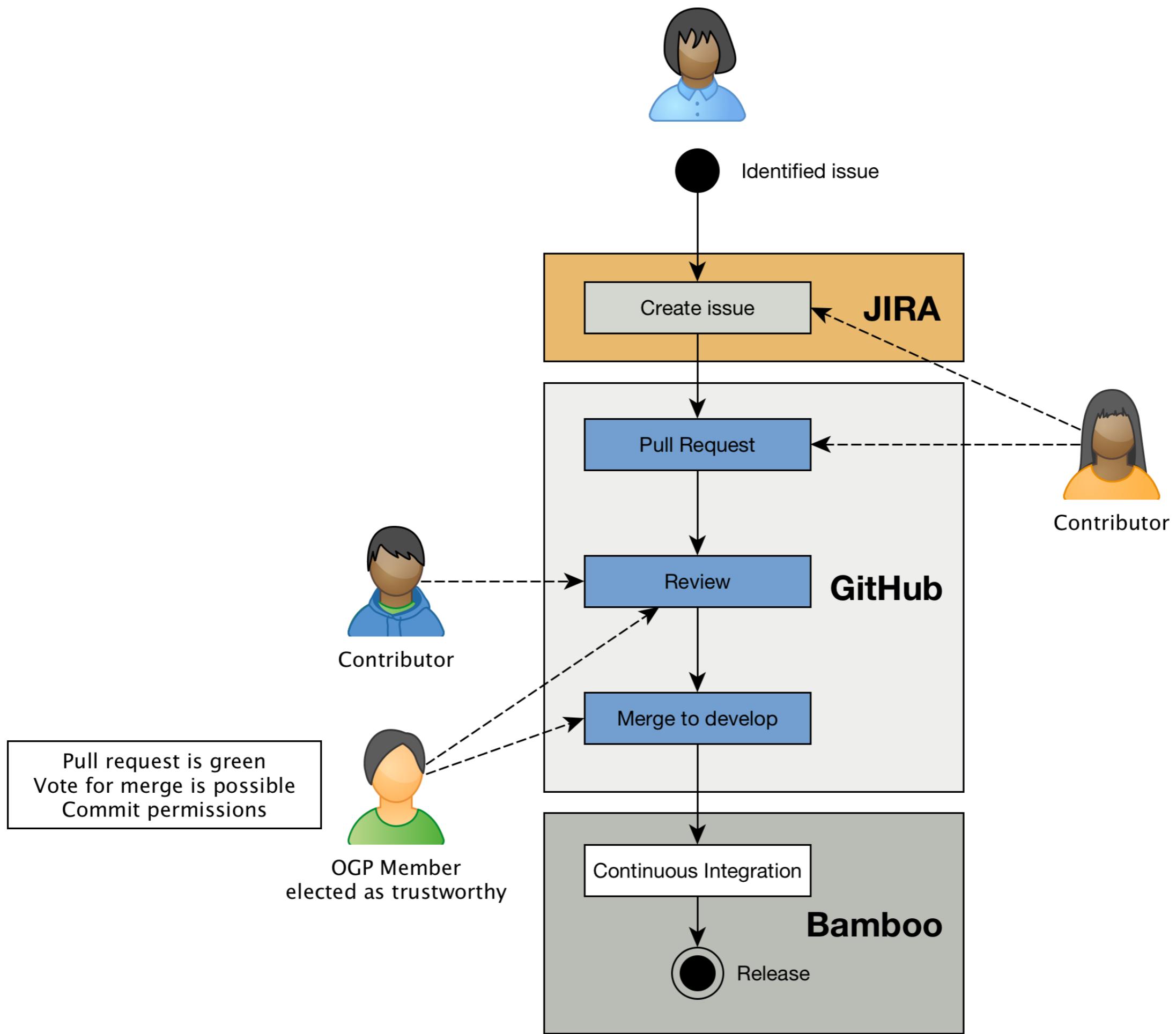
- Integration in development
- Define a workflow for contribution
- Allow tracking of documentation issues
- Integrate in review process
- Add docs to your acceptance criteria
- Iteration, Iteration, Iteration

GitHub



+ **JIRA** + **BAMBOO**





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

[NMS-6634] Administrato... x Administrators Guide x +

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

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. CisclopSlaMonitor
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

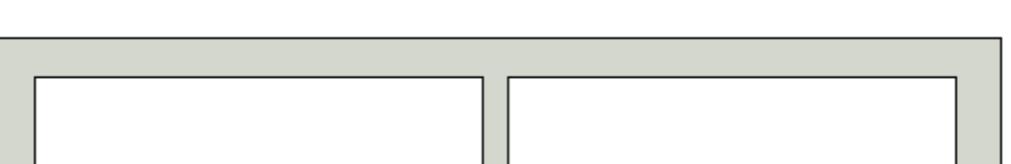
1. Operator Board

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

OpenNMS / opennms

http://www.opennms.org/

31,334 commits 543 branches 240 releases 48 contributors

Merge pull request #244 from OpenNMS/jira/NMS-7570 ...

pbrane authored an hour ago latest commit 6f66d1d6b0

bin [bamboo] Automated branch merge (from 1.12:1b4c9b8ebb39bfb84aec489ff...) 5 months ago

container Added schema inforamtion to Karaf features.xml files and cleaned up X... 11 hours ago

core Merge branch 'develop' into features/16.0-enlinkd 8 days ago

debian Release Notes for OpenNMS 15.0.1 a month ago

dependencies Added basic Netty 3 implementation of SyslogReceiver. 13 days ago

extensions 15.0.0-SNAPSHOT -> 16.0.0-SNAPSHOT 2 months ago

features Merge pull request #244 from OpenNMS/jira/NMS-7570 an hour ago

integration-tests [bamboo] Automated branch merge (from foundation:d1b1df23f7d7c05e9714...) 18 hours ago

Code Pull requests 23

Pulse

Graphs

HTTPS clone URL https://github.com/t

You can clone with [HTTPS](#), [SSH](#), or [Subversion](#).

Clone in Desktop Download ZIP

Google Analytics

3rd party configs

Tutorials

Integrations

Wiki

Page Discussion Read View source View history Search

Fortinet Guide

Tested for Versions

The instructions in this article have been tested against the following versions of OpenNMS.

Tested Against:

* 1.12.8 by Fuhrmann

Contents [hide]

- 1 Monitoring Fortinet products - What's possible?
- 2 Fortinet requirements
- 3 OpenNMS requirements
 - 3.1 SNMP data
 - 3.1.1 Datacollection
 - 3.1.2 Graph definition
 - 3.1.3 Thresh package & thresholds
 - 3.1.4 Threshold notifications
 - 3.2 Traps
 - 3.2.1 Event definitions
 - 3.2.2 Trap notifications- 4 Links

Monitoring Fortinet products - What's possible?

Fortinet products (FortiGate v4/v5.x, FortiWiFi v4/v5.x, FortiAnalyzer v4/v5.x) offer really good snmp support. They provide snmp data (eg. CPU, memory, MIB2 stuff et cetera) so OpenNMS is able to create data collections and almost all events can be send as snmp

Dashboard

Monitors for
service tests

Data collection

Dashlet 1

Monitor 1

Collector 1

...

...

...

Dashlet n

Monitor n

Collector n

66 lines (48 sloc) | 2.671 kb

Raw Blame History



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

[NMS-6634] Administrator...

issues.opennms.org/browse/NMS-6634

OpenNMS / NMS-6634

Administrator can lookup all existing service monitors and their configuration parameters

Edit Comment Assign More Start Progress Resolve Issue Close Issue Admin Export

9.	<input checked="" type="checkbox"/> CiscolpSlaMonitor		CLOSED	Unassigned
10.	<input checked="" type="checkbox"/> CiscoPingMibMonitor		CLOSED	Unassigned
11.	<input checked="" type="checkbox"/> CitrixMonitor		CLOSED	Ronny Trommer
12.	<input checked="" type="checkbox"/> DiskUsageMonitor		CLOSED	Ronny Trommer
13.	<input checked="" type="checkbox"/> DNSResolutionMonitor		CLOSED	Unassigned
14.	DominollOPMonitor		OPEN	Unassigned
15.	DskTableMonitor		OPEN	Unassigned
16.	<input checked="" type="checkbox"/> FtpMonitor		CLOSED	Marcel Fuhrmann
17.	GpMonitor		OPEN	Unassigned
18.	<input checked="" type="checkbox"/> HostResourceSwRunMonitor		CLOSED	Ronny Trommer
19.	<input checked="" type="checkbox"/> HttpPostMonitor		CLOSED	Ronny Trommer

Documentation - Agile Board

issues.opennms.org/secure/RapidBoard.jspa?rapidView=34&selectedIssue=NMS-6634

openNMS Dashboards Projects Issues Agile Create Search ? Gear User

Documentation

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

To Do	In Progress	Review	Done
NMS-6679 ↑ PageSequenceMonitor		NMS-6691 ↑ TcpMonitor	NMS-6652 ↑ HttpMonitor
NMS-6685 ↑ SmtpMonitor		NMS-6700 ↓ RadiusAuthMonitor	NMS-6638 ↑ AvailabilityMonitor
NMS-6680 ↑ PassiveServiceMonitor		NMS-6675 ↑ NrpeMonitor	NMS-6639 ↑ BgpSessionMonitor
NMS-6670 ↓ LoopMonitor			NMS-6640 ↑ BSFMonitor
NMS-6650 ↑ GpMonitor			NMS-6684 ↑ SmbMonitor

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- [1. Introduction](#)
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- [6. Headings and document structure](#)

Documentation Guide

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Last updated 2015-03-20 03:33:09 EDT

1. Introduction

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

2. Overall Layout

```
opennms-doc
├── guide-doc
│   ├── README.adoc
│   ├── pom.xml
│   └── src
│       ├── asciidoc
│       │   ├── configs
│       │   │   └── poller-configuration.xml
│       │   ├── images
│       │   │   ├── 01_opennms-logo.png
│       │   │   └── 02_pris-overview.png
│       │   ├── images_src
│       │   │   └── pris-overview.graphml
│       │   └── index.adoc
│       └── text
│           ├── images.adoc
│           ├── include-source.adoc
│           ├── introduction.adoc
│           └── writing.adoc
└── target
```

The file structure diagram shows the directory layout of 'opennms-doc'. The root directory contains 'guide-doc' (1), which includes 'README.adoc', 'pom.xml', and 'src' (3). 'src' contains 'asciidoc' (4), which has 'configs' (5) containing 'poller-configuration.xml', 'images' (6) containing '01_opennms-logo.png' and '02_pris-overview.png', 'images_src' (7) containing 'pris-overview.graphml' (8), and 'index.adoc' (9). 'src' also contains 'text' (10), which includes 'images.adoc', 'include-source.adoc', 'introduction.adoc', and 'writing.adoc'. Finally, there is a 'target' directory (11).

Ascii for the win

Low barrier to edit

Version controlled



Some evaluation

Markdown



The image shows the AsciiDoc logo at the top left, which consists of the word "AsciiDoc" in a white, serif font on a blue background. Below it is a smaller blue box containing the text "Text based" and "Asciidoctor". Underneath that is a larger blue box containing the text "A fast text processor & publishing toolchain for converting AsciiDoc to HTML5, DocBook & more."

LaTeX



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



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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
9 Credit is due to Tobias Oetiker, as this graphing feature is an adaptation of the http://oss.oetiker.ch/smokeping/[SmokePing] to
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
28 | `timeout`          | Time in milliseconds to wait before assuming that a packet has not responded
29 | `retry`             | The number of retries to attempt when a packet fails to respond in the given timeout
30 | Required           | Description
31 | optional            | Description
32 | optional            | Description
```



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.

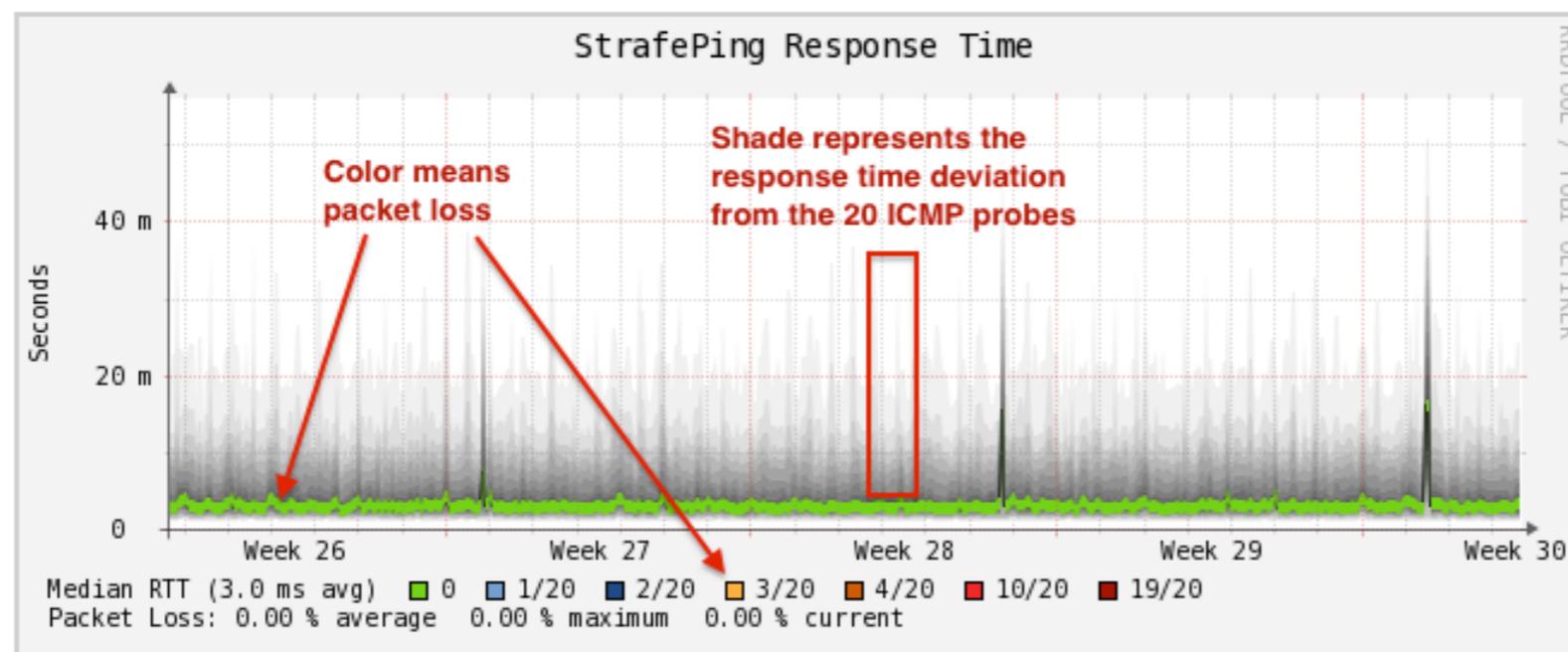


Figure 1. Visualization of a graph from the StrafePingMonitor

Monitor facts

Class Name	org.opennms.netmgt.poller.monitors.StrafePingMonitor
Remote Enabled	false

Configuration and Usage

Monitor specific parameters for the StrafePingMonitor

Issues · OpenNMS/opennms

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

This repository Search Explore Gist Blog Help Indigo423 + - Fork 169

OpenNMS / opennms Unwatch 49 Unstar 82 Fork 169

Pull requests Labels Milestones Filters is:open label:docs New Issue

7 Open ✓ 14 Closed Author Labels Milestones Assignee Sort

NMS-7536: ReST API documentation docs #239 opened 10 days ago by indigo423 0 of 2

LTS-126: Create JasperReport template guideline docs #238 opened 11 days ago by indigo423 0 of 4

NMS-6675: Documentation NrpeMonitor docs enhancement #171 opened on Nov 17, 2014 by indigo423 0 of 2

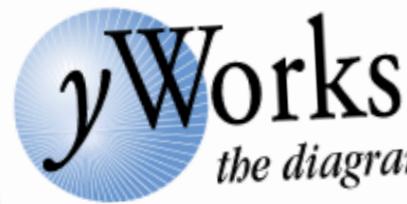
NMS-6700: Documentation RadiusAuthMonitor docs enhancement #170 opened on Nov 16, 2014 by indigo423 0 of 2

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

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Notes

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
\(executable Jar\)
\(26.7 MB\)](#)

Zipped yEd Jar file. Requires an installed JRE 6 or higher.

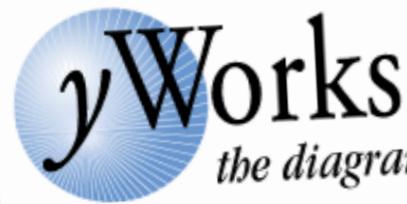
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Notes

yEd installer for 32-bit Windows Vista, 7, and 8. Includes a suitable Java 8 JRE.
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\(97 MB\)](#)

yEd installer for Mac OS X 10.8 or higher. Includes
For installation on earlier Mac OS X versions, see

[yEd for Linux
\(64 MB\)](#)

yEd installer script for 64-bit Linux systems. Either
`sh`. Includes a suitable Java 8 JRE.

[yEd
\(executable Jar\)
\(26.7 MB\)](#)

Zipped yEd Jar file. Requires an installed JRE 6 or

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redistribution and
use in automation



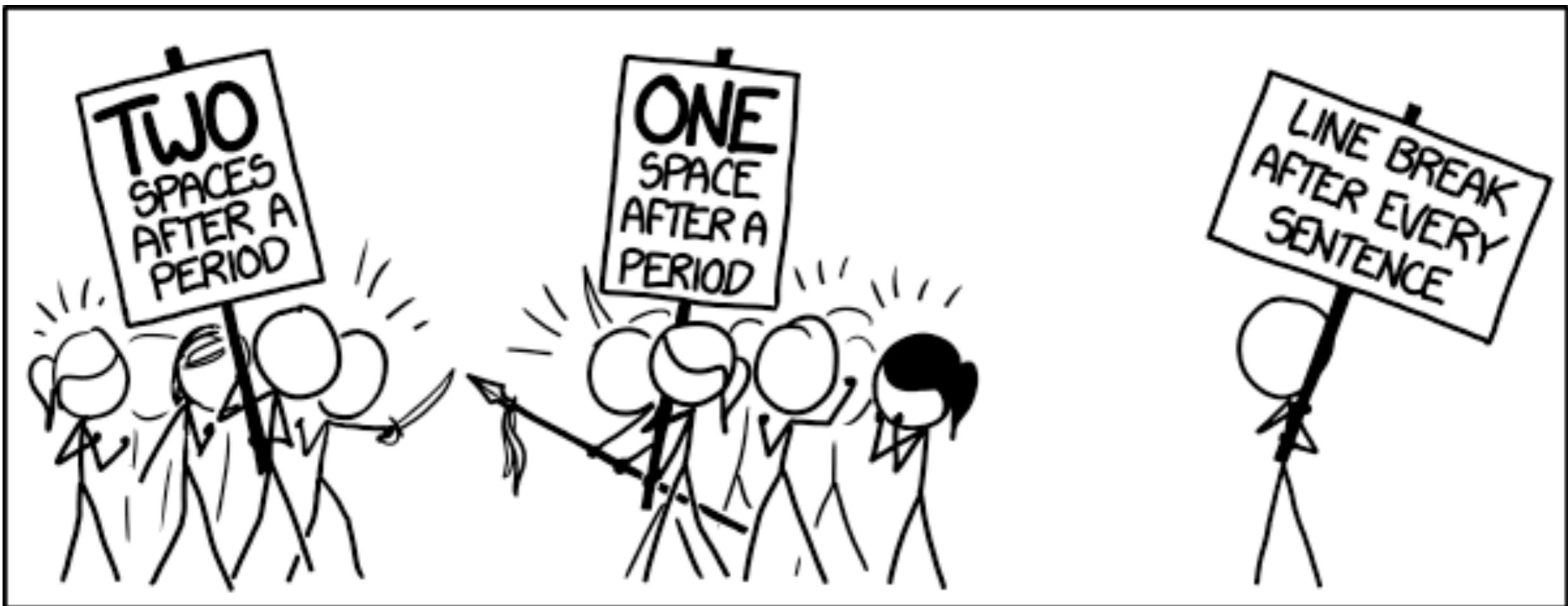
AsciiDoc

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

- 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

Content reviewed by @christianpape

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

Indigo423 added the **enhancement** label on Dec 3, 2014

[NMS-6710] VmwareCim... https://github.com/OpenNMS/opennm... Search

openNMS Dashboards Projects Issues Agile

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 - hub.trac

[This repository](#) [Search](#)[Explore](#) [Gist](#) [Blog](#) [Help](#)[Dashboards](#)[Projects](#)[Issues](#)[Agile](#)**commit 44247b0a0de93781e1366031145ccb8eff75e10c****Merge: 102a69f a9ff9bb****Author: Ronny Trommer <ronny@opennms.org>****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 5907a7797902e50f43e60fee9d24ef679869bcfd****Author: Ronny Trommer <ronny@opennms.org>****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