



TYPO3-Camp Stuttgart - 20.-22. Mai 2011

TYPO3-Entwicklung mit Git und Gerrit

Inspiring people to
share

Verteilte Softwareentwicklung und -reviews in der TYPO3-Community

Steffen Gebert <steffen.gebert@typo3.org>

Twitter: @StGebert

TYPO3-Camp Stuttgart – 20./22. Mai 2011

Vorstellung

Steffen Gebert

TYPO3 Core Team Member

Diplom-Informatiker

Doktorand / Wissenschaftl. Mitarbeiter
an der Uni Würzburg



Überblick

- ❖ Software-Reviews
- ❖ Git & Gerrit
- ❖ Workflows & Konventionen
- ❖ Weitere Informationen
- ❖ Fragen

Software-Reviews



Foto: mario.rimann
<http://www.flickr.com/photos/mrimann/3534514430/>

TYPO3-Entwicklung mit Git und Gerrit

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Software-Reviews

- ❖ Qualitätssicherung
- ❖ Vier (oder sechs) Augen sehen mehr als zwei
- ❖ Fehler werden immer gemacht – man muss sie nur finden!
- ❖ Aufnahme in offiziellen Quellcode erst nach erfolgtem Review
- ❖ Verschiedene Arten des Reviews, u.a.
 - ❖ Funktionalität
 - ❖ Code

Funktionales Review

- ❖ Eine Änderung...
 - ❖ behebt den Fehler / ermöglicht ein neues Feature
 - ❖ stört keine andere Funktionalität

Code-Review

- ❖ Eine Änderung am Quellcode...
 - ❖ ist korrekt
(macht das, was sie tun soll und nichts anderes)
 - ❖ ist sinnvoll programmiert
(Robustheit, Performance, etc.)
 - ❖ entspricht gewünschten Programmierstandards
(z.B. TYPO3 Coding Guide Lines)
- ❖ Testmethoden
 - ❖ Automatische Analyse (v.a. CGL)
 - ❖ Durchlesen

Review per Mailingliste (damals...)

- “Requests for Comments” (RFCs) per core-team-Mailingliste

Formalitäten /
Konventionen



from Steffen Gebert <steffen@steffen-gebert.de> ☆
subject [TYPO3-core] RFC #17374: implode() issues in Install Tool
newsgroups typo3.teams.core

28.01.11 22:57
other actions

Hi!

This is a SVN patch request.

Type: Bugfix

Bugtracker reference:
<http://bugs.typo3.org/view.php?id=17374>

Branches:
trunk, 4-5

Problem:
The Install Tool has some problems with the implode() function.
In a few places, it might try to implode undefined variables, at least in one case, this is really critical: In the Upgrade Wizards, when no database queries are performed (thus \$databaseQueries is undefined), but later it should be imploded. That's what the bug report is about and also occurred for me.

Solution:
Always initialize variables, which are imploded afterwards.

Note:
I also 2-3 times reordered the parameters to the correct order (first glue, then array) and removed some unused variables.

Kind regards

[17374.diff](#)

Review per Mailingliste

Ernesto Basch... Re: [TYPO3-core] RFC #17374: implode() issues in In... 31.01.11 11:06
Steffen Gebert Re: [TYPO3-core] RFC #17374: implode() issues in In... 05.02.11 11:15

from Ernesto Baschny [cron IT] ★ reply forward archive delete
subject Re: [TYPO3-core] RFC #17374: implode() issues in Install Tool 31.01.11 11:06
newsgroups typo3.teams.core
references ▾ 1 other actions



Almost a "no-brainer", I would say.

Attached is a v2 which adds some more occurrences and also a 4.4 patch which should apply cleanly. I ran through all screens of the Install Tool and all Upgrade Wizards, and could not spot anything wrong.

So +1 by reading and testing.

Cheers,
Ernesto

Voting

SVN Commit

Steffen Gebert Re: [TYPO3-core] RFC #17374: implode() issues in In... 05.02.11 11:15

from Steffen Gebert <steffen@steffen-gebert.de> ★ reply forward archive delete
subject Re: [TYPO3-core] RFC #17374: implode() issues in Install Tool 05.02.11 11:15
newsgroups typo3.teams.core
references ▾ 1 other actions



Bugtracker reference:
<http://bugs.typo3.org/view.php?id=17374>

Solution:
Always initialize variables, which are imploded afterwards.

Committed to
- trunk rev. 10389
- 4-5 rev. 10390
- 4-4 rev. 10388

Mailingliste: Ordnung halten

 man kämpfte sich so durch...

From	Subject	Date
Susanne Moog	► [TYPO3-core] RFC #17116: Bug: All images get reduced to 25x25px upon saving if no size is set	• 18.01.11 16:01
Steffen Gebert	► ↗ [TYPO3-core] FYI #17144: Adjust CSH tooltip show and hide delay (Thanks to Jens Hoffmann a...	• 19.01.11 18:58
Stanislas Rolland	► ↗ [TYPO3-core] RFC #17041: CSH tooltip often gets in the way of the field it is supposed to prov...	• 14.01.11 23:38
Tolleiv.Nietsch	► [TYPO3-core] RFC #16926: database isn't updated during workspace-migration wizard	• 06.01.11 00:00
François Suter	► [TYPO3-core] RFC #17114: Bug: Install Tool does not install extensions properly	• 18.01.11 18:03
Steffen Müller	► ↗ [TYPO3-core] RFC #17143: Wrong property declaration in t3lib_mail_Message API	• 19.01.11 15:23
Ernesto Baschny [cron IT]	► ↗ [TYPO3-core] RFC #17163: CSH tooltips should be placed nearer to the text	• 20.01.11 13:43
Tolleiv.Nietsch	► [TYPO3-core] RFC #17102: migrateWorkspaces in Install-Tool doesn't show up in all relevant sit...	• 18.01.11 00:40
Tolleiv.Nietsch	► [TYPO3-core] RFC #17104: "Create new workspace projects" in be_users/be_groups not require...	• 18.01.11 01:30
Tolleiv.Nietsch	► [TYPO3-core] RFC #17106: sys_workspace table should be defined at one place only	• 18.01.11 01:59
Tolleiv.Nietsch	► [TYPO3-core] RFC #17105: deprecate "disable_autocreate" feature	• 18.01.11 01:55
Jigal van Hemert	► ↗ [TYPO3-core] RFC #16911: Restructure of t3lib_utility_Mail hook subscriber	• 04.01.11 14:55
Susanne Moog	► [TYPO3-core] RFC #17063: Bugfix: Workspaces: Creating new pages in a workspace shows the p...	• 16.01.11 14:56
Steffen Gebert	► ↗ [TYPO3-core] RFC #17155: Active and hover states are hard to distinguish	• 20.01.11 14:15
François Suter	► [TYPO3-core] RFC #17088: Cleanup: CSH display in new record wizard should use new API	• 17.01.11 17:08
Stefan Galinski	► ↗ [TYPO3-core] RFC #16971: Improve ExtDirect error handling	• 19.01.11 23:02
Christian Kuhn	► ↗ [TYPO3-core] FYI24 #17149: Remove sys_refindex_* tables and unused code	• 19.01.11 21:28
Stefan Galinski	► ↗ [TYPO3-core] RFC #17131: ExtDirect - Caching: Differentiate between HTTPS/HTTP protocols	• 19.01.11 00:31
Steffen Gebert	► ↗ [TYPO3-core] FYI24 #15118: Context menu icons are on the right side	• 19.01.11 00:45
Helmut Hummel	► [TYPO3-core] RFC #17153: Protect C(R)UD actions against CSRF	• 20.01.11 01:50
Tobias Liebig	[TYPO3-core] FYI: Fixed bug #17180: t3editor claims more than 100% width	• 21.01.11 00:21
Stefan Galinski	► [TYPO3-core] RFC #17133: Pagetree – qtip can be used to execute custom javascript (XSS)	• 19.01.11 01:08
Stefan Galinski	► ↗ [TYPO3-core] 0017073: Final Integration of the pagetree	• 16.01.11 22:57

Migration zu Git & Gerrit

- ❖ Präsentation auf Core-Team-Meeting im Juli 2010
 - ❖ Einigkeit über Einführung
- ❖ Testkaninchen FLOW3 ab Aug. 2010
- ❖ Migration für v4 während Code-Sprint am 1. März 2011

- ❖ Erwartete Vorteile
 - ❖ Mehr Übersicht für Reviewer
 - ❖ Einfachere Entwicklung/Integration großer Features

The background of the slide features a dark, abstract pattern of numerous semi-transparent, glowing circular shapes. These circles are scattered across the frame, creating a sense of depth and motion. They come in a variety of colors, including shades of blue, green, yellow, orange, red, and purple, which are arranged in a roughly triangular shape pointing upwards and to the right.

Git & Gerrit im Einsatz

Foto: tnilaman
<http://www.sxc.hu/photo/1275444>

TYPO3-Entwicklung mit Git und Gerrit

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Git

- ❖ Verteiltes Versionskontrollsystem
- ❖ Entwickelt für die Linux-Kernelentwicklung von Linus Thorvalds
- ❖ Sehr mächtig
- ❖ Komplexer als Subversion
- ❖ Basiswissen wird im Folgenden vorausgesetzt

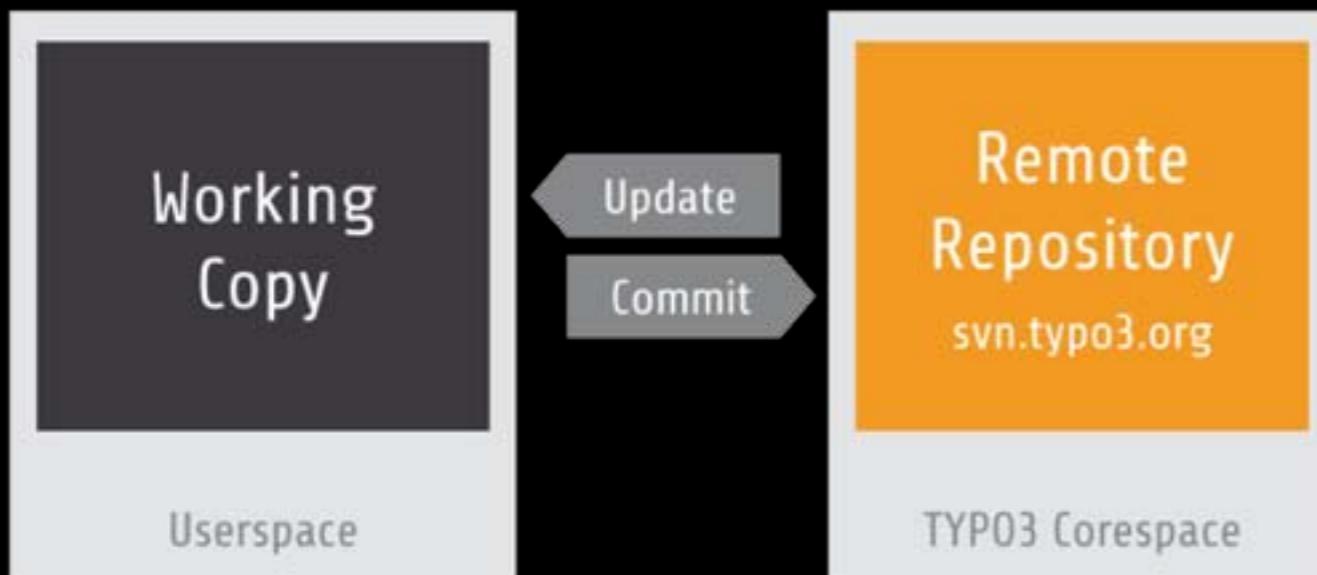
Danke an Tobias Günther für den Crashkurs

Lokale Kopie des
gesamten Repositories

von Nerds für Nerds :-)



Subversion



GIT



Git: Wiederholung

- “trunk” heißt jetzt “master”
- Commits werden über SHA-1 identifiziert
- Ein Commit ist lokal - jeder darf committen
- Commits lassen sich nachträglich ändern
- Branching ist alltäglich



Foto: texas_mustang
<http://www.flickr.com/photos/astros/58932360/>

Repository klonen

- ❖ `git clone --recursive git://git.typo3.org/TYPO3v4/Core.git`
- ❖ Meta-Informationen landen im Verzeichnis `.git/`
- ❖ Ausgecheckter Branch: `master`
- ❖ Gesamte History seit TYPO3 3.6 enthalten

Gerrit

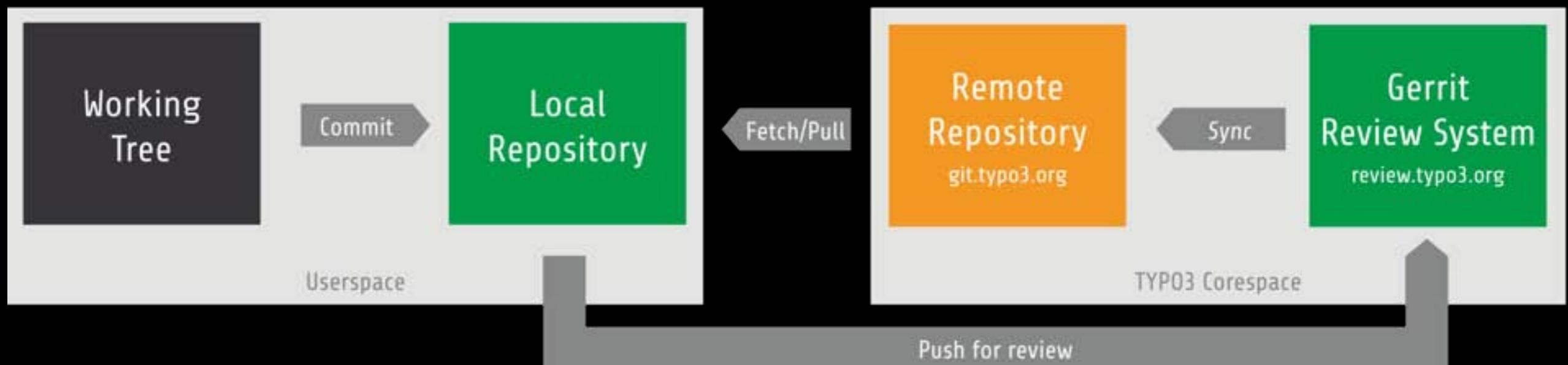
- ❖ Web-basiertes Code-Review Tool
- ❖ Für Android-Entwicklung von Google entwickelt
- ❖ Baut auf Git als VCS auf
- ❖ Wacht über das offizielle Git-Repository
- ❖ Hauptgrund für die Migration des TYPO3-Codes nach Git



GIT “standalone”



GIT & Gerrit



Gerrit

- ❖ Momentan genutzt für
 - ❖ TYPO3v4: Core, Workspaces, Extbase, Fluid
 - ❖ Extensions: community, extension_builder (ehem. extbase_kickstarter)
 - ❖ FLOW3
 - ❖ TYPO3v5
- ❖ <http://review.typo3.org>

Gerrit Übersicht

status:open | review.typo3.org

<https://review.typo3.org/#q,status:open,n,z>

All My Admin Documentation

Open Merged Abandoned

Steffen Gebert <steffen.gebert@typo3.org> | Settings | Sign Out

status:open

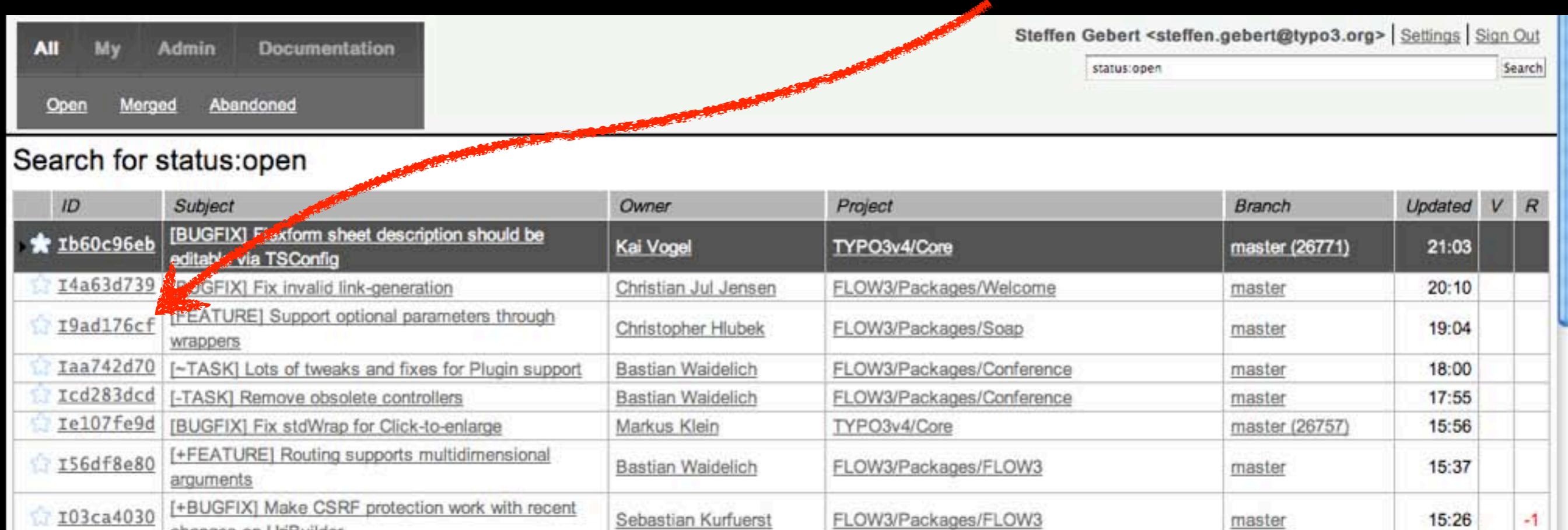
Search

Search for status:open

ID	Subject	Owner	Project	Branch	Updated	V	R
★ I ^b 60c96eb	[BUGFIX] Flexform sheet description should be editable via TSConfig	Kai Vogel	TYPO3v4/Core	master (26771)	21:03		
I ^a 4a63d739	[BUGFIX] Fix invalid link-generation	Christian Jul Jensen	FLOW3/Packages/Welcome	master	20:10		
I ^a 9ad176cf	[FEATURE] Support optional parameters through wrappers	Christopher Hlubek	FLOW3/Packages/SOAP	master	19:04		
I ^a aa742d70	[~TASK] Lots of tweaks and fixes for Plugin support	Bastian Waidelich	FLOW3/Packages/Conference	master	18:00		
I ^a cd283dc	[~TASK] Remove obsolete controllers	Bastian Waidelich	FLOW3/Packages/Conference	master	17:55		
I ^a e107fe9d	[BUGFIX] Fix stdWrap for Click-to-enlarge	Markus Klein	TYPO3v4/Core	master (26757)	15:56		
I ^a 56df8e80	[+FEATURE] Routing supports multidimensional arguments	Bastian Waidelich	FLOW3/Packages/FLOW3	master	15:37		
I ^a 03ca4030	[+BUGFIX] Make CSRF protection work with recent changes on UriBuilder	Sebastian Kurfuerst	FLOW3/Packages/FLOW3	master	15:26	-1	
I ^a 2f4bd78f	[TASK] Overwork NEWS.txt for TYPO3 4.6	Oliver Hader	TYPO3v4/Core	master	14:12		
I ^a 73c20c23	[BUGFIX] MVC: Fix UriBuilder to work with nested subrequests	Andreas Förthner	FLOW3/Packages/FLOW3	master	13:31	-1	
I ^a 456f3130	[FEATURE] Enable SQL connection initialization	Karsten Dambekalns	FLOW3/Packages/FLOW3	master	13:30	+1 +1	
I ^a f2a4612a	[FEATURE][BUGFIX] Calculate referenced column names from class code	Karsten Dambekalns	FLOW3/Packages/FLOW3	master	12:42	✓ +1	

Gerrit Change-Id

💡 Jeder Change-Request hat eindeutige Change-Id



The screenshot shows a Gerrit search results page for 'status:open'. The search bar at the top contains 'status:open'. The results table has columns: ID, Subject, Owner, Project, Branch, Updated, V, and R. The first row, which is highlighted with a red arrow, corresponds to the search term. The 'V' column for this row contains '-1'.

ID	Subject	Owner	Project	Branch	Updated	V	R
Ib60c96eb	[BUGFIX] Flexform sheet description should be editable via TSConfig	Kai Vogel	TYPO3v4/Core	master (26771)	21:03		
I4a63d739	[BUGFIX] Fix invalid link-generation	Christian Jul Jensen	FLOW3/Packages/Welcome	master	20:10		
I9ad176cf	[FEATURE] Support optional parameters through wrappers	Christopher Hlubek	FLOW3/Packages/Soap	master	19:04		
Iaa742d70	[~TASK] Lots of tweaks and fixes for Plugin support	Bastian Waidelich	FLOW3/Packages/Conference	master	18:00		
Icd283dcf	[~TASK] Remove obsolete controllers	Bastian Waidelich	FLOW3/Packages/Conference	master	17:55		
Ie107fe9d	[BUGFIX] Fix stdWrap for Click-to-enlarge	Markus Klein	TYPO3v4/Core	master (26757)	15:56		
I56df8e80	[+FEATURE] Routing supports multidimensional arguments	Bastian Waidelich	FLOW3/Packages/FLOW3	master	15:37		
I03ca4030	[+BUGFIX] Make CSRF protection work with recent changes on UriBuilder	Sebastian Kurfuerst	FLOW3/Packages/FLOW3	master	15:26	-1	

A close-up photograph of a person's hand, palm facing forward, with their thumb raised in a thumbs-up gesture. The hand is positioned in the upper left quadrant of the frame, with the rest of the arm and hand extending towards the bottom right.

Patches reviewen

Foto: stylesr1
<http://www.sxc.hu/photo/605324>

Änderung reviewen

The screenshot shows a web browser displaying a pull request on the TYPO3 review system. The URL is <https://review.typo3.org/#change,1809>. The title of the pull request is "Change l17df6b3c: [BUGFIX] TCA definition is not available in upgrade wizards". A red circle highlights the "Change-Id" field, which contains the value "l17df6b3caeda0ff2b5a7399c457ccebc57627882".

Change-Id: l17df6b3caeda0ff2b5a7399c457ccebc57627882

Owner: Oliver Hader

Project: TYPO3v4/Core

Branch: master

Topic: 26515

Uploaded: Apr 29, 2011 19:58

Updated: May 12, 2011 01:38

Status: Review in Progress

[BUGFIX] TCA definition is not available in upgrade wizards

The global TCA definition is empty in some upgrade wizards. This was caused by a general clean-up to remove PHP global statements that did not seem to be required anymore. However, if PHP files get included inside a method or function accessing STCA did not happen in a global context.

Change-Id: l17df6b3caeda0ff2b5a7399c457ccebc57627882
Resolves: #26515

Reviewer **Verified** **Code Review**

Steffen Gebert	<input checked="" type="checkbox"/>	+1	Looks good to me, but someone else must approve
Markus Klein		+1	Verified; Looks good to me, but someone else must approve
Mr. Jenkins			

• Need Verified +2 (Verified by team member)
• Need Code Review +2 (Looks good to me, approved)

Name or Email Add Reviewer

► Dependencies

► Patch Set 1 5198a35cf23228ac288f499bc962933767a12f6c ([gitweb](#))

▼ Patch Set 2 3c0d0571f217b31167be38ca065b981c862cf599 ([gitweb](#))

Author	Steffen Gebert < steffen.gebert@typo3.org >	May 10, 2011 23:09
Committer	Steffen Gebert < steffen.gebert@typo3.org >	May 10, 2011 23:09
Download	checkout pull cherry-pick patch	Anonymous Git SSH

Änderung reviewen

The screenshot shows a web browser window with the URL <https://review.typo3.org/#change,1809>. The page displays a pull request titled "Change I17df6b3c: [BUGFIX] TCA definition is not available in upgrade wizards". A red circle highlights the commit message area, which contains the text: "[BUGFIX] TCA definition is not available in upgrade wizards. The global TCA definition is empty in some upgrade wizards. This was caused by a general clean-up to remove PHP global statements that did not seem to be required anymore. However, if PHP files get included inside a method or function accessing \$TCA did not happen in a global context." Below the commit message, it says "Change-Id: I17df6b3caeda0ff2b5a7399c457ccebc57627882" and "Resolves: #26515". To the right of the commit message, there is handwritten-style text in red: "Commit Message" and "→ Konventionen".

Change I17df6b3c: [BUGFIX] TCA definition is not available in upgrade wizards

Change-Id: I17df6b3caeda0ff2b5a7399c457ccebc57627882

Owner: Oliver Hader

Project: TYPO3v4/Core

Branch: master

Topic: 26515

Uploaded: Apr 29, 2011 19:58

Updated: May 12, 2011 01:38

Status: Review in Progress

Commit Message

→ Konventionen

Reviewer Verified Code Review

Steffen Gebert	<input checked="" type="checkbox"/>	+1	Looks good to me, but someone else must approve
Markus Klein		+1	Verified; Looks good to me, but someone else must approve
Mr. Jenkins			

• Need Verified +2 (Verified by team member)
• Need Code Review +2 (Looks good to me, approved)

Name or Email Add Reviewer

► Dependencies

► Patch Set 1 5198a35cf23228ac288f499bc962933767a12f6c ([gitweb](#))

▼ Patch Set 2 3c0d0571f217b31167be38ca065b981c862cf599 ([gitweb](#))

Author: Steffen Gebert <steffen.gebert@typo3.org> May 10, 2011 23:09

Committer: Steffen Gebert <steffen.gebert@typo3.org> May 10, 2011 23:09

Download: [checkout](#) | [pull](#) | [cherry-pick](#) | [patch](#) | [Anonymous Git](#) | [SSH](#)

Änderung reviewen

Change I17df6b3c: [BUGFIX] TCA definition is not available in upgrade wizards

Change-Id: I17df6b3caeda0ff2b5a7399c457ccebc57627882

Owner: Oliver Hader

Project: TYPO3v4/Core

Branch: master

Topic: 26515

Uploaded: Apr 29, 2011 19:58

Updated: May 12, 2011 01:38

Status: Review in Progress

[Permalink](#)

Reviews

Reviewer	Verified	Code Review	Comment
Steffen Gebert	<input checked="" type="checkbox"/>	+1	Looks good to me, but someone else must approve
Markus Klein	+1	+1	Verified; Looks good to me, but someone else must approve
Mr. Jenkins			

Need Verified +2 (Verified by team member)

- Need Code Review +2 (Looks good to me, approved)

Name or Email Add Reviewer

► Dependencies

► Patch Set 1 5198a35cf23228ac288f499bc962933767a12f6c ([gitweb](#))

▼ Patch Set 2 3c0d0571f217b31167be38ca065b981c862cf599 ([gitweb](#))

Author	Steffen Gebert < steffen.gebert@typo3.org >	May 10, 2011 23:09
Committer	Steffen Gebert < steffen.gebert@typo3.org >	May 10, 2011 23:09
Download	checkout pull cherry-pick patch	Anonymous Git SSH

Änderung reviewen

The screenshot shows a web browser displaying a TYPO3 code review page. The URL is <https://review.typo3.org/#change,1809>. The page title is "Change I17df6b3c: [BUGFIX] TCA definition is not available in upgrade wizards".

Change-Id: I17df6b3caeda0ff2b5a7399c457ccebc57627882

Owner: Oliver Hader

Project: TYPO3v4/Core

Branch: master

Topic: 26515

Uploaded: Apr 29, 2011 19:58

Updated: May 12, 2011 01:38

Status: Review in Progress

Code Review:

Reviewer	Verified	Code Review	Comment
Steffen Gebert	<input checked="" type="checkbox"/>	+1	Looks good to me, but someone else must approve
Markus Klein	+1	+1	Verified; Looks good to me, but someone else must approve
Mr. Jenkins			

Dependencies:

- Need Verified +2 (Verified by team member)
- Need Code Review +2 (Looks good to me, approved)

Name or Email Add Reviewer

Patch Set 1 5198a35cf23228ac288f499bc962933767a12f6c ([gitweb](#))

Patch Set 2 3c0d0571f217b31167be38ca065b981c862cf599 ([gitweb](#))

Author: Steffen Gebert <steffen.gebert@typo3.org> May 10, 2011 23:09

Committer: Steffen Gebert <steffen.gebert@typo3.org> May 10, 2011 23:09

Download: [checkout](#) [pull](#) [cherry-pick](#) [patch](#) [Anonymous Git](#) [SSH](#)

verschiedene Patch-Versionen

Code Review

The screenshot shows a web browser displaying a code review interface for TYPO3. The URL is <https://review.typo3.org/#change,1809>. The page shows two patch sets:

- Patch Set 1**: 5198a35cf23228ac288f499bc962933767a12f6c (gitweb)
- Patch Set 2**: 3c0d0571f217b31167be38ca065b981c862cf599 (gitweb)

Details for Patch Set 2 include:

- Author**: Steffen Gebert <steffen.gebert@typo3.org> May 10, 2011 23:09
- Committer**: Steffen Gebert <steffen.gebert@typo3.org> May 10, 2011 23:09
- Download**: checkout | pull | cherry-pick | patch | Anonymous Git | SSH
git fetch git://git.typo3.org/TYPO3v4/Core refs/changes/09/1809/2 && git cherry-pick FETCH_HEAD

Below the details is a table showing file changes:

	File Path	Comments	Size	Diff	Reviewed
	Commit Message			Side-by-Side Unified	
M	typo3/sysext/install/mod/class.tx_install.php		+3, -0	Side-by-Side Unified	
			+3, -0		

A red arrow points from the word "Diff aufrufen" (Call Diff) to the "Diff" column header in the table.

Comments

	Actions	Date
Mr. Jenkins	Patch Set 1: Build Successful ...	Apr 29
Markus Klein	Patch Set 1: Verified; Looks good to me, but someone else must approve	Apr 29
Steffen Gebert	Uploaded patch set 2.	May 10
Steffen Gebert	Patch Set 2: Looks good to me, but someone else must approve I prefer to ...	May 10
Mr. Jenkins	Patch Set 2: Build Successful ...	May 10
Markus Klein	Patch Set 2: Looks good to me, but someone else must approve	May 11
	Fine with me as well, just do something about it!	
Markus Klein	Patch Set 2: Verified	01:38

Diff-Ansicht

Change If3d30be3: typo3/sysext/cms/tslib/class.tslib_fe.php

Patch History

Ignore Whitespace: None Tab Width: 4 Syntax Coloring Whitespace Errors Skip Uncommented Files
Context: 3 lines Columns: 80 IntraLine Difference Show Tabs Skip Deleted Files Update

[BUGFIX] Throw HttpStatusExceptions in tslib_fe
 ReviewedChange #25697 added an Exception Hierarchy for HTTP statuses. This change makes use of them in tslib_fe.

Commit Message [Up to change](#)

	Old Version (Download)	New Version (Download)
488	<pre> } else { \$message = 'Cannot connect to the configured database "'.TYPO3_db.'"; t3lib_div::sysLog(\$message, 'cms', t3lib_div::SYSLOG_SEVERITY_ERROR); header('HTTP/1.0 503 Service Temporarily Unavailable'); throw new RuntimeException('Database Error: ' . \$message, 1293617736); } } else {</pre>	<pre> } else { \$message = 'Cannot connect to the configured database "'.TYPO3_db.'"; t3lib_div::sysLog(\$message, 'cms', t3lib_div::SYSLOG_SEVERITY_ERROR); throw new t3lib_error_http_ServiceTemporaryUnavailableException(\$message, 1301648782); } } else {</pre>
498	<pre> } else { \$message = 'The current username, password or host was not accepted when the connection to the database was attempted to be established!'; t3lib_div::sysLog(\$message, 'cms', t3lib_div::SYSLOG_SEVERITY_ERROR); header('HTTP/1.0 503 Service Temporarily Unavailable'); throw new RuntimeException('Database Error: ' . \$message, 1293617741); } } }</pre>	<pre> } else { \$message = 'The current username, password or host was not accepted when the connection to the database was attempted to be established!'; t3lib_div::sysLog(\$message, 'cms', t3lib_div::SYSLOG_SEVERITY_ERROR); throw new t3lib_error_http_ServiceTemporaryUnavailableException('Database Error: ' . \$message, 1301648945); } } }</pre>
920	<pre> } else { \$message = 'No pages are found on the rootlevel!'; t3lib_div::sysLog(\$message, 'cms', t3lib_div::SYSLOG_SEVERITY_ERROR); header('HTTP/1.0 503 Service Temporarily unavailable'); throw new RuntimeException(\$message, 1294587207); } }</pre>	<pre> } else { \$message = 'No pages are found on the rootlevel!'; t3lib_div::sysLog(\$message, 'cms', t3lib_div::SYSLOG_SEVERITY_ERROR); throw new t3lib_error_http_ServiceTemporaryUnavailableException(\$message, 1301648975); } }</pre>

Diff-Ansicht

Inline-Kommentare mit Doppelklick



The screenshot shows a code editor displaying a PHP file with line numbers 497 through 524. A tooltip is open over line 501, which contains the text '(Draft)'. Inside the tooltip, the message 'No, I don't like that!' is displayed. At the bottom of the tooltip, there are 'Save' and 'Discard' buttons.

```
497     } else {
498         $message = 'The current username, password or host was not accepted when the conn
499         ted to be established!';
500         t3lib_div::sysLog($message, 'cms', t3lib_div::SYSLOG_SEVERITY_ERROR);
501         throw new t3lib_error_http_ServiceTemporaryUnavailableException('Database Error:
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
```

Funktionaler Test

The screenshot shows a web browser window displaying a GitHub-style pull request interface for TYPO3. The URL is <https://review.typo3.org/#change,1809>. The page lists two patch sets:

- Patch Set 1**: 5198a35cf23228ac288f499bc962933767a12f6c (gitweb)
- Patch Set 2**: 3c0d0571f217b31167be38ca065b981c862cf599 (gitweb)

A red arrow points from the text "checkout wählen" to the "checkout" link in the "Download" section of Patch Set 2. Another red arrow points from the text "kopieren" to the "Side-by-Side" link in the "Diff" section of the same row.

Comments

		Expand Recent	Expand All	Collapse All
Mr. Jenkins	Patch Set 1: Build Successful ...			Apr 29
Markus Klein	Patch Set 1: Verified; Looks good to me, but someone else must approve			Apr 29
Steffen Gebert	Uploaded patch set 2.			May 10
Steffen Gebert	Patch Set 2: Looks good to me, but someone else must approve I prefer to ...			May 10
Mr. Jenkins	Patch Set 2: Build Successful ...			May 10
Markus Klein	Patch Set 2: Looks good to me, but someone else must approve Fine with me as well, just do something about it!			May 11
Markus Klein	Patch Set 2: Verified	01:38		

Funktionaler Test

- ❖ Befehlszeile ausführen
- ❖ Exakter Stand wird ausgecheckt, incl. Änderung
- ❖ Testen!

Voting abgeben

The screenshot shows a web browser window displaying a patch review page from <https://review.typo3.org/#change,1809>. The page title is "Change I17df6b3c: [BUGFIX]". The main content area shows two patch sets:

- Patch Set 1**: 5198a35cf23228ac288f499bc962933767a12f6c (gitweb)
- Patch Set 2**: 3c0d0571f217b31167be38ca065b981c862cf599 (gitweb)

Below the patch sets, there is a table showing file status and details:

Author	Steffen Gebert <steffen.gebert@typo3.org>	May 10, 2011 23:09		
Committer	Steffen Gebert <steffen.gebert@typo3.org>	May 10, 2011 23:09		
Download	checkout pull cherry-pick patch Anonymous Git SSH <code>git fetch git://git.typo3.org/TYPO3v4/Core refs/changes/09/1809/2 && git checkout FETCH_HEAD</code>			
File Path	Comments	Size	Diff	Reviewed
Commit Message			Side-by-Side Unified	
M typo3/sysext/install/mod/class.tx_install.php		+3, -0	Side-by-Side Unified	
		+3, -0		

A red arrow points from the "File Path" header of the table to the "File Path" column of the table.

Below the table, there is a "Comments" section with the following entries:

- Mr. Jenkins Patch Set 1: Build Successful ... Apr 29
- Markus Klein Patch Set 1: Verified; Looks good to me, but someone else must approve Apr 29
- Steffen Gebert Uploaded patch set 2. May 10
- Steffen Gebert Patch Set 2: Looks good to me, but someone else must approve I prefer to ... May 10
- Mr. Jenkins Patch Set 2: Build Successful ... May 10
- Markus Klein
Patch Set 2: Looks good to me, but someone else must approve
Fine with me as well, just do something about it! May 11
- Markus Klein
Patch Set 2: Verified 01:38

Voting abgeben

The screenshot shows a web browser window with the URL <https://review.typo3.org/#change,publish,1809,2>. The page displays a code review for a patch titled "Change l17df6b3c - Patch 5". The "Topic" is 26515, "Uploaded" on Apr 29, 2011 19:58, "Updated" on May 12, 2011 01:38, and the "Status" is "Review in Progress". The "Change-ID" is `I17df6b3caeda0ff2b5a7399c457ccebc57627882` and it "Resolves" #26515. Below this, there are sections for "Verified" and "Code Review". Handwritten red annotations are present: a large red arrow points from the "Funktionaler Test" section to the "Verified" radio buttons; another red arrow points from the "Code Review" section to the "Code Review" radio buttons. A large blue box at the bottom contains handwritten text: "Anmerkungen - besonders bei negativem Review!".

Funktionaler Test
-1/0/+1

Code Review
-1/0/+1

Anmerkungen -
besonders bei
negativem Review!

Publish Comments Publish and Submit Cancel

Voting abgeben

The screenshot shows a web browser window for a code review on review.typo3.org. The URL in the address bar is <https://review.typo3.org/#change,publish,1809,2>. The page displays the following information:

- Topic:** 26515
- Uploaded:** Apr 29, 2011 19:58
- Updated:** May 12, 2011 01:38
- Status:** Review in Progress
- Change-ID:** t17df6b3caeda0ff2b5a7399c457ccebc57627882
- Resolves:** #26515

Below this, there are two sections for voting:

Verified:

- +2 Verified by team member
- +1 Verified
- 0 No score
- 1 Fails

Code Review:

- +2 Looks good to me, approved
- +1 Looks good to me, but someone else must approve
- 0 No score
- 1 I would prefer that you didn't submit this
- 2 Do not submit

Cover Message:

Anmerkungen -
besonders bei
negativem Review!

Handwritten annotations in red:

- A large red arrow points from the text "Members only.." to the "No score" option under the "Verified" section.
- A red arrow points from the text "Anmerkungen - besonders bei negativem Review!" to the "Cover Message" input field.

At the bottom of the screen, there are three buttons: "Publish Comments", "Publish and Submit", and "Cancel".



Eigene Patches senden

Foto: cs remedy
<http://www.sxc.hu/photo/1267108>

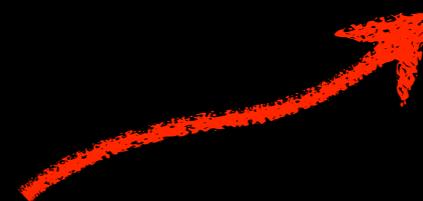
TYPO3-Entwicklung mit Git und Gerrit

Inspiring people to
share

Git konfigurieren

```
git config --global user.name "Your Name"  
git config --global user.email "foo@example.com"
```

muss mit Adresse in
Gerrit übereinstimmen



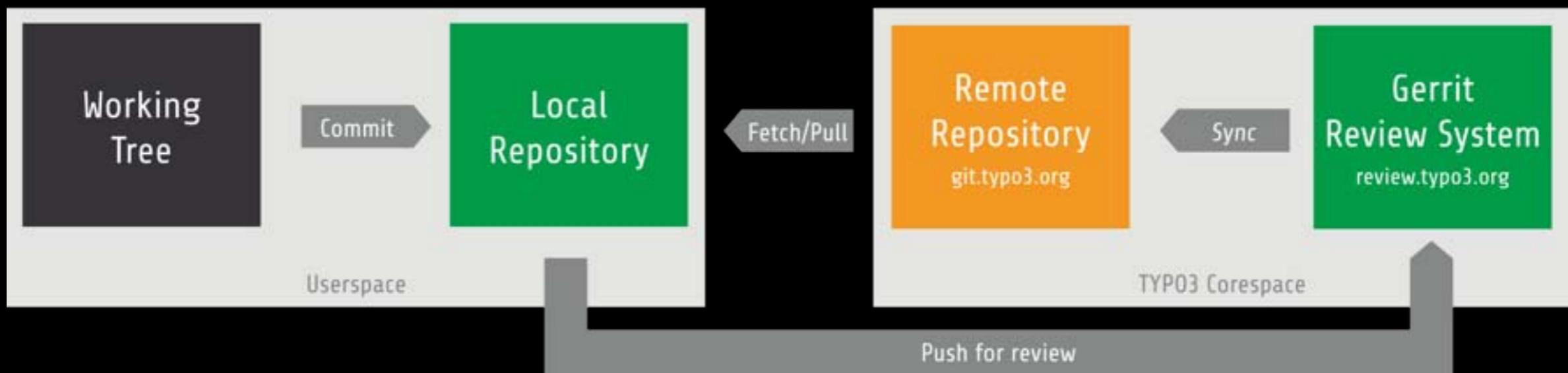
Git konfigurieren

- ▀ `git config --global user.name "Your Name"`
`git config --global user.email "foo@example.com"`

- ▀ `git config --global branch.autosetuprebase remote`
`git config --global url."ssh://<username>@review.typo3.org:29418".pushInsteadOf git://git.typo3.org`

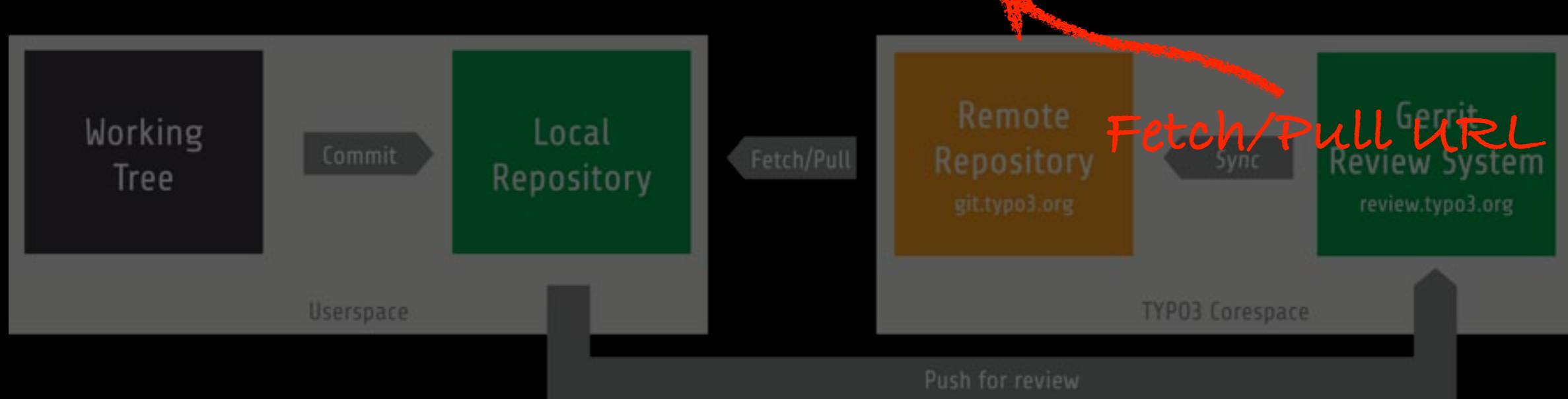
Git konfigurieren

- git config --global user.name "Your Name"
git config --global user.email "foo@example.com"
- git config --global branch.autosetuprebase remote
git config --global url."ssh://<username>@review.typo3.org:29418"
.pushInsteadOf git://git.typo3.org



Git konfigurieren

- git config --global user.name "Your Name"
git config --global user.email "foo@example.com"
- git config --global branch.autosetuprebase remote
git config --global url.'ssh://<username>@review.typo3.org:29418'.pushInsteadOf git://git.typo3.org



Gerrit: SSH-Key festlegen

The screenshot shows the TYPO3 Settings interface for managing SSH keys. On the left sidebar, under 'SSH Public Keys', there is a table listing existing keys. One key is listed with the following details:

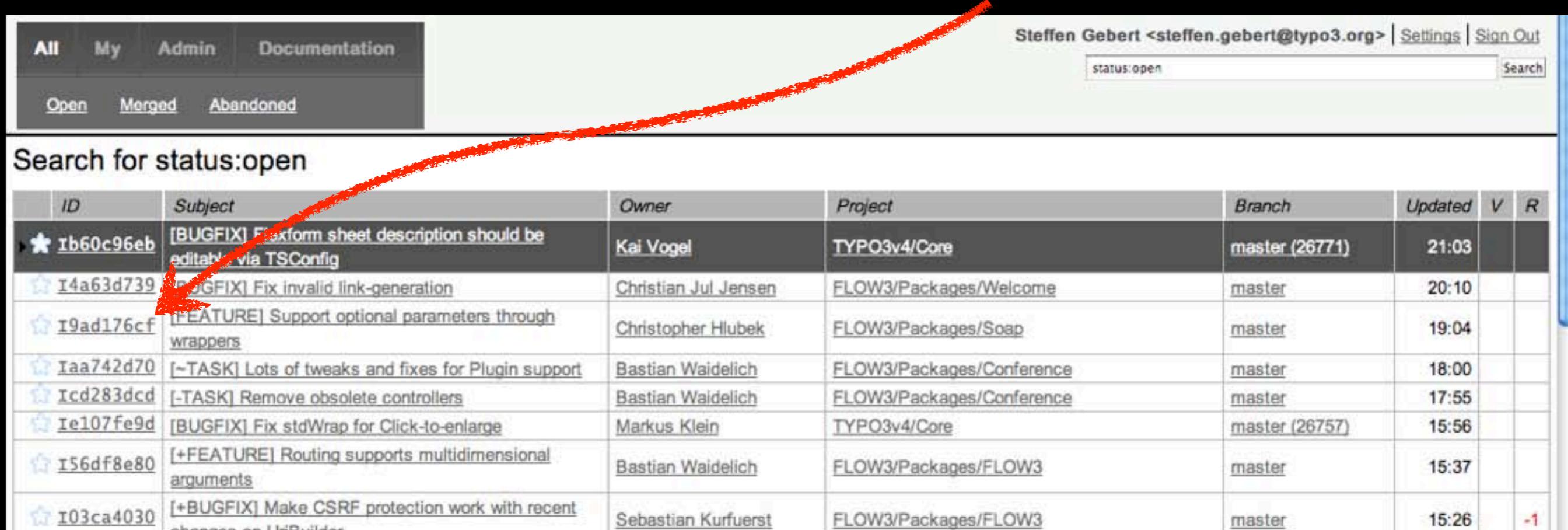
Status	Algorithm	Key	Comment
<input type="checkbox"/>	ssh-rsa	AAAAB3NzaC1yc2EAAAABIwAAAQEA2n...DAIDn02Q==	converted-key

Below the table, there are two sections for 'Server Host Key'. The first section has a Fingerprint of c1:13:da:c3:0c:e6:f8:50:f9:b2:c9:03:34:6e:83:b6 and an entry for `~/.ssh/known_hosts`: [review.typo3.org]:29418 ssh-rsa AAAAB3NzaC1yc2EAAAABIwAAAQEA61PKZD0Gz...7tHEqK5Q==. The second section has a Fingerprint of a6:ff:54:6e:bd:c5:60:1e:33:8d:1d:e4:cc:8c:bc:d9 and an entry for `~/.ssh/known_hosts`: [review.typo3.org]:29418 ssh-dss AAAAB3NzaC1kc3MAAACBAPEcg7+yGXVZ8jI8F...9yuMTUbA==.

A large red arrow points from the bottom-left towards the 'Add Key ...' button in the table row.

Gerrit Change-Id

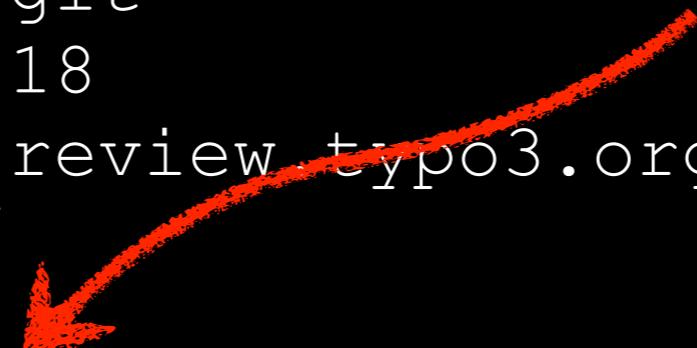
💡 Jeder Change-Request hat eindeutige Change-Id



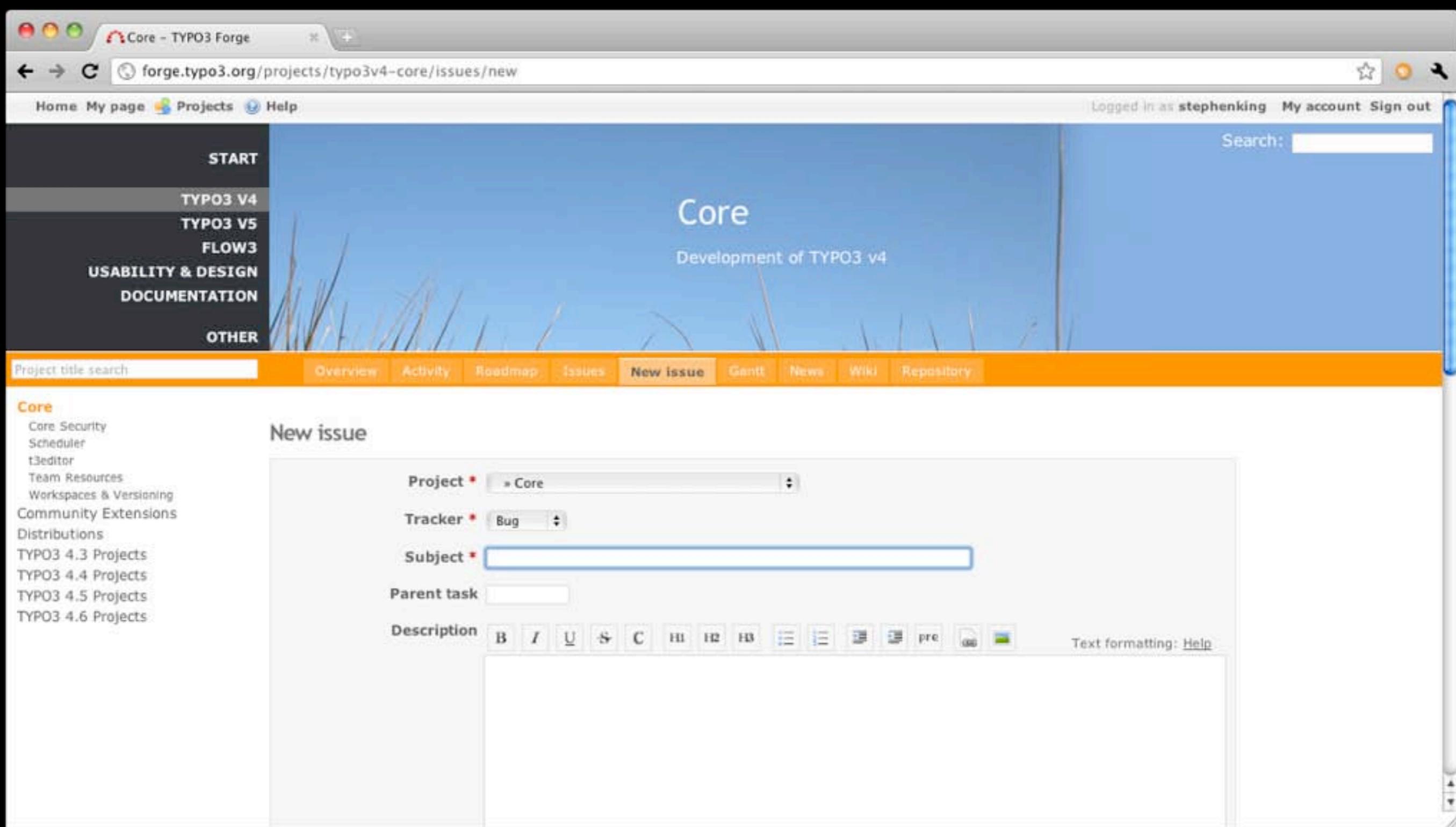
The screenshot shows a Gerrit search results page for 'status:open'. The search bar at the top contains 'status:open'. The results table has columns: ID, Subject, Owner, Project, Branch, Updated, V, and R. The first row, which is highlighted with a red arrow, corresponds to the search term. The 'V' column for this row contains '-1'.

ID	Subject	Owner	Project	Branch	Updated	V	R
Ib60c96eb	[BUGFIX] Flexform sheet description should be editable via TSConfig	Kai Vogel	TYPO3v4/Core	master (26771)	21:03		
I4a63d739	[BUGFIX] Fix invalid link-generation	Christian Jul Jensen	FLOW3/Packages/Welcome	master	20:10		
I9ad176cf	[FEATURE] Support optional parameters through wrappers	Christopher Hlubek	FLOW3/Packages/Soap	master	19:04		
Iaa742d70	[~TASK] Lots of tweaks and fixes for Plugin support	Bastian Waidelich	FLOW3/Packages/Conference	master	18:00		
Icd283dcf	[~TASK] Remove obsolete controllers	Bastian Waidelich	FLOW3/Packages/Conference	master	17:55		
Ie107fe9d	[BUGFIX] Fix stdWrap for Click-to-enlarge	Markus Klein	TYPO3v4/Core	master (26757)	15:56		
I56df8e80	[+FEATURE] Routing supports multidimensional arguments	Bastian Waidelich	FLOW3/Packages/FLOW3	master	15:37		
I03ca4030	[+BUGFIX] Make CSRF protection work with recent changes on UriBuilder	Sebastian Kurfuerst	FLOW3/Packages/FLOW3	master	15:26	-1	

Gerrit Change-Id

- ▀ Automatische Generierung über Git Commit Hook
 - ▀ `cd typo3_src-git
scp -p -P 29418
<username>@review.typo3.org:hooks/commit-msg
.git/hooks/`
 - ▀ `git submodule update --init
git submodule foreach 'scp -p -P 29418
<username>@review.typo3.org:hooks/commit-msg
.git/hooks/'`
- submodule ≈
svn:externals*
- 

Eigene Änderung senden



The screenshot shows a web browser window for the TYPO3 Forge project 'Core'. The URL is forge.typo3.org/projects/typo3v4-core/issues/new. The page title is 'Core - TYPO3 Forge'. The top navigation bar includes links for Home, My page, Projects, Help, and a user account section showing 'Logged in as stephenking'. A search bar is also present.

The left sidebar contains a navigation menu with sections: START, TYPO3 V4, TYPO3 V5, FLOW3, USABILITY & DESIGN, DOCUMENTATION, and OTHER. Below this is a 'Project title search' input field and a navigation bar with links for Overview, Activity, Roadmap, Issues, New issue (which is currently selected), Gantt, News, Wiki, and Repository.

The main content area is titled 'Core' and 'Development of TYPO3 v4'. It features a 'New issue' form with fields for Project (set to 'Core'), Tracker (set to 'Bug'), Subject (an empty text input), and Parent task (an empty text input). Below the form is a rich text editor toolbar with icons for bold, italic, underline, superscript, code, headings, lists, and other text formats. A link 'Text formatting: Help' is also visible.

Eigene Änderung senden

⌚ Aktuellen Stand bekommen

```
git checkout <release-branch>
git pull
```

z.B. master
TYPO3_4-5
TYPO3_4-4

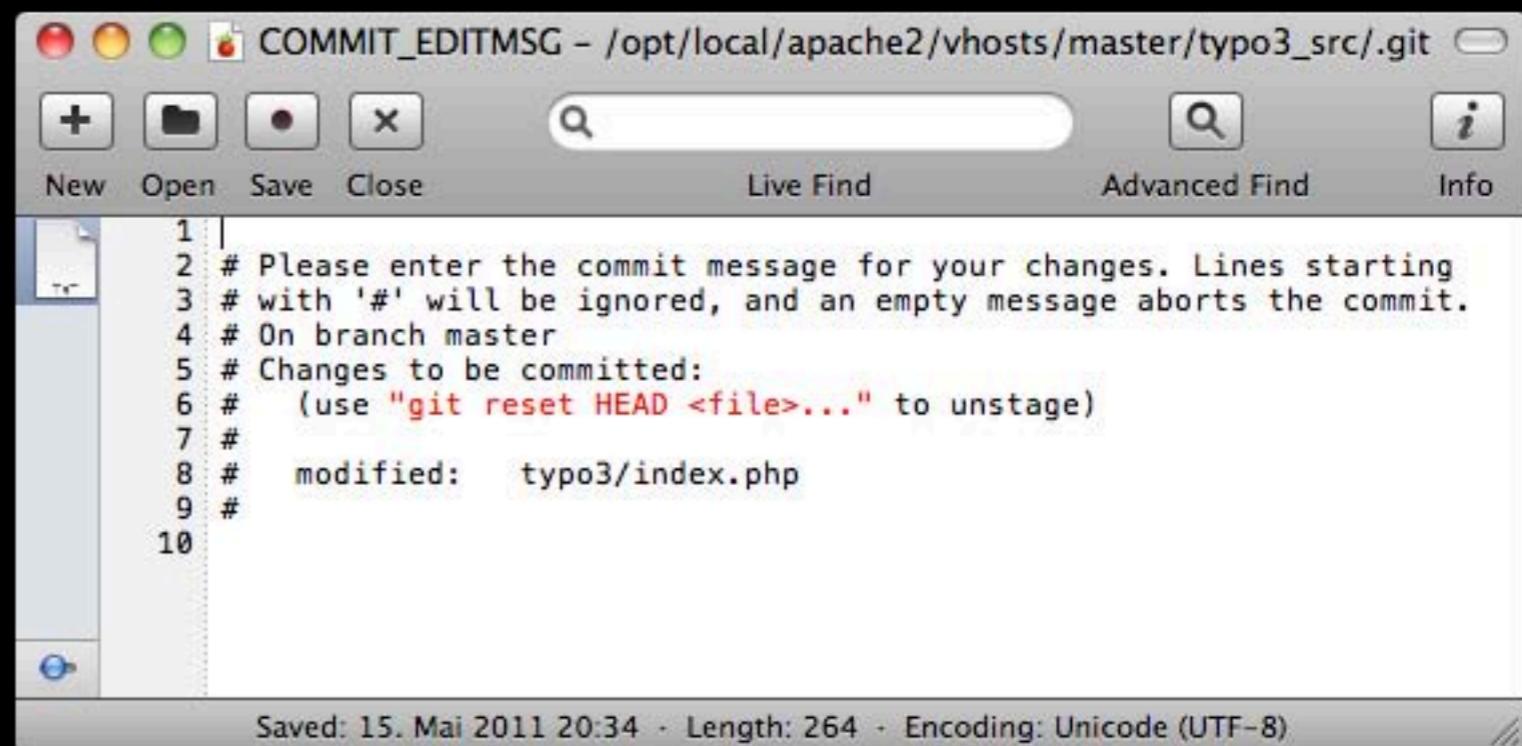
⌚ Änderung am Code durchführen

⌚ Änderung reviewen

```
git diff
```

⌚ Committen

```
git commit -a
```



```
1 |
2 # Please enter the commit message for your changes. Lines starting
3 # with '#' will be ignored, and an empty message aborts the commit.
4 # On branch master
5 # Changes to be committed:
6 #   (use "git reset HEAD <file>..." to unstage)
7 #
8 #       modified:   typo3/index.php
9 #
10
```

Saved: 15. Mai 2011 20:34 · Length: 264 · Encoding: Unicode (UTF-8)

Commit Message Format

- CM verbleibt auf ewig in der History
- Spezielle Konventionen für Commit Message

[BUGFIX] Recursion error when including TypoScript files

When editing TypoScript in the template module and using the "Include TypoScript file content" option with more than 9 files, then the 10th and all later files gets screwed up.

Resolves: #25374

Releases: 4.6, 4.5

Commit Message Hook

- git log -1
zeigt letzte Commit Message an
- Change-Id-Zeile wurde automatisch hinzugefügt
(ansonsten weigert Gerrit später die Annahme)

[BUGFIX] Recursion error when including TypoScript files

When editing TypoScript ...

Change-Id: 69fb8866b94c75b3b73395cfa4bd0a900e6ab53c

Resolves: #25374

Releases: 4.6, 4.5

Änderung pushen

git push origin HEAD:refs/for/<release-branch>



gewünschter Remote
alternativ z.B. github

Änderung pushen

- git push origin HEAD:refs/for/<release-branch>



- Gerrit antwortet mit Erfolgsmeldung "New Changes" und Review-URL

Workflows & Konventionen

Review-Workflow

- ❖ Issue in Forge öffnen
- ❖ Commit machen, Pushen
- ❖ Auf Reviews warten
 - ❖ Nachbessern mit neuer Patch-Version oder
 - ❖ freuen :-)
- ❖ Ggf. weitere Branches pushen

Grundsätzliches

- ❖ Change Request bezieht sich jeweils auf einen Branch
- ❖ Nur ein Eintrag für alle Branches in Forge erforderlich
- ❖ Nach erfolgreichem Review automatisch im nächsten Release

Aktive Branches

- master (wird später TYPO3_4-6 abgespalten)
- TYPO3_4-5 (current stable, LTS)
- TYPO3_4-4 (oldstable)
- TYPO3_4-3 (oldoldstable)

In welchen Branch..?

- ❖ Features, Änderungen des Verhaltens
 - ❖ master (keine Features in veröffentlichten Versionen)
- ❖ Bugfixes
 - ❖ master (4.6) 
 - ❖ current stable (4.5)
 - ❖ LTS (4.5)
 - ❖ ältere Branches nach Belieben (4.4, 4.3)

master nicht
vergessen!

Erforderliche Reviews

- Change Request wird gemerged bei jeweils mindestens

	Verified	Code Review
Team-Mitglied	✓ (+2)	✓ (+2)
Beliebiger Reviewer	+	+

- Weitere Reviews sind willkommen!
- Übernahme (“Submit”) durch Team-Mitglied in Gerrit

Mr. Hudson & Mr. Jenkins

- ❖ Jenkins Continuous Integration Server (vormals Hudson)
- ❖ Automatisiertes Review
- ❖ Momentane Tests
 - ❖ Coding Guide Lines
 - ❖ PHP lint
- ❖ TODO
- ❖ Unit Tests
- ❖ <http://ci.typo3.org>





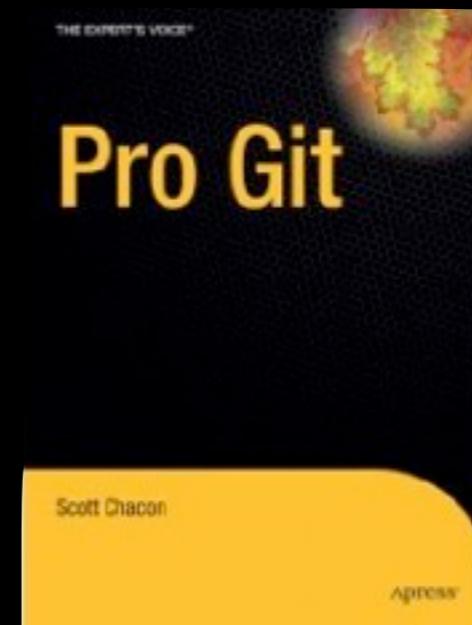
Weitere Informationen

Foto: Egilshay
<http://www.sxc.hu/photo/1095604>

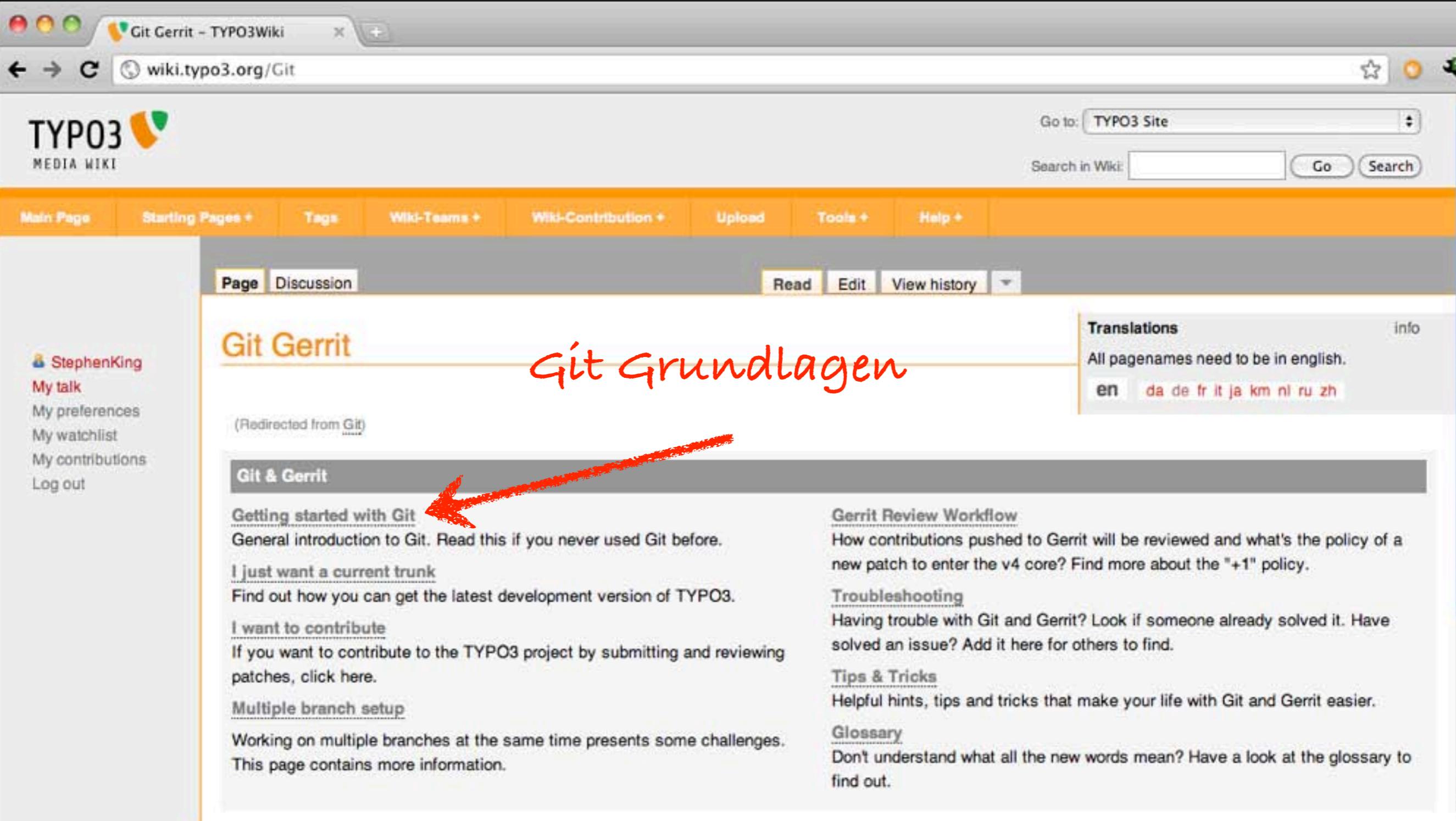
Git-Probleme



► Pro Git Buch
<http://progit.org> (kostenlos)



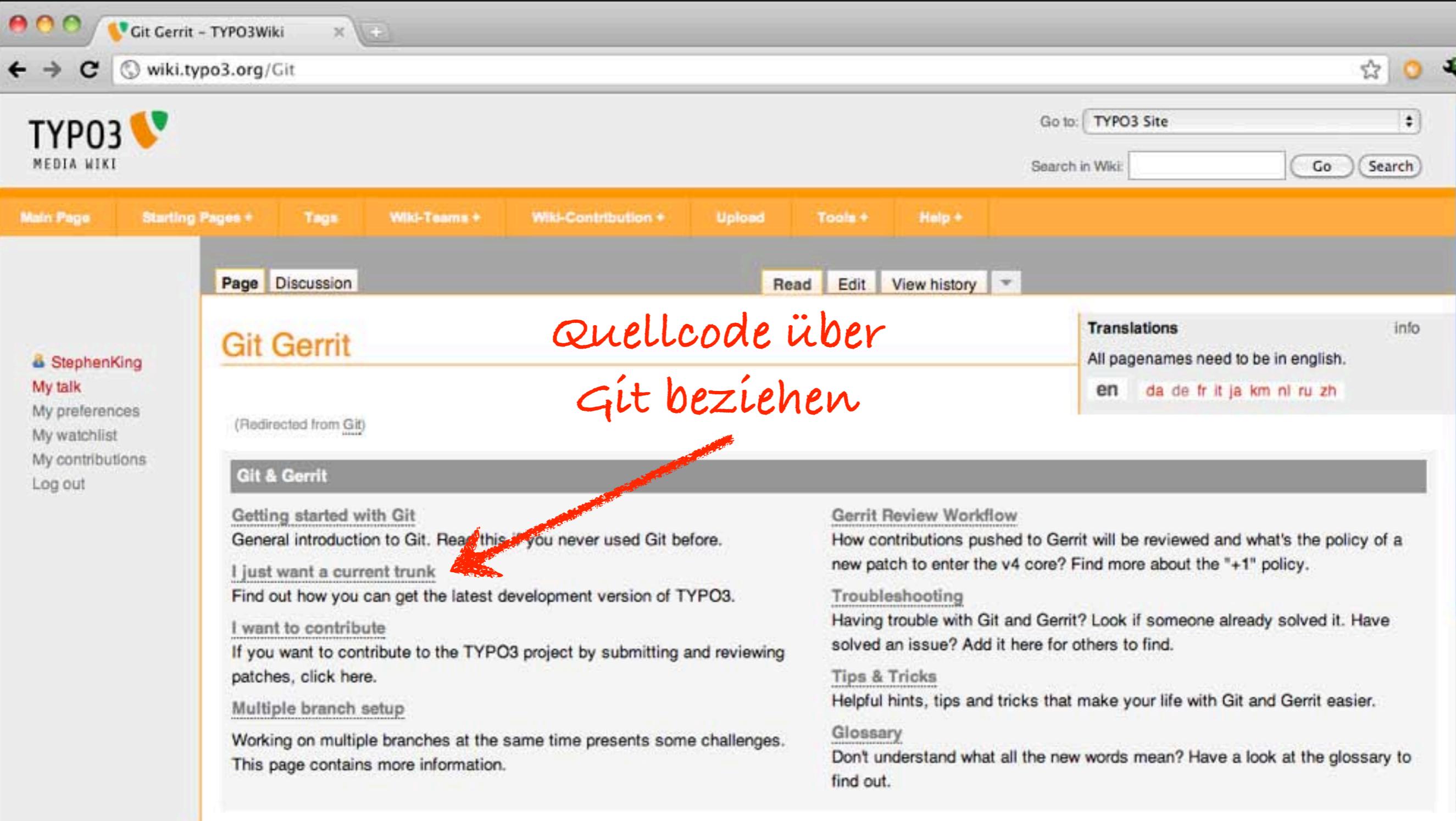
Wiki: “Git” landing page



The screenshot shows a TYPO3 MediaWiki instance with the following details:

- Page Title:** Git Gerrit (Redirected from Git)
- Page Content:**
 - Git & Gerrit**
 - Getting started with Git** (highlighted with a red arrow pointing from the heading "Git Grundlagen")
 - General introduction to Git. Read this if you never used Git before.
 - I just want a current trunk
 - Find out how you can get the latest development version of TYPO3.
 - I want to contribute
 - If you want to contribute to the TYPO3 project by submitting and reviewing patches, click here.
 - Multiple branch setup
 - Working on multiple branches at the same time presents some challenges. This page contains more information.
- Translations:** All pagenames need to be in english.
en da de fr it ja km nl ru zh

Wiki: “Git” landing page



Git Gerrit – TYPO3Wiki

wiki.typo3.org/Git

TYPO3 MEDIA WIKI

Main Page Starting Pages + Tags Wiki-Teams + Wiki-Contribution + Upload Tools + Help +

Page Discussion Read Edit View history

Git Gerrit

(Redirected from Git)

Git & Gerrit

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Multiple branch setup
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Quellcode über Git beziehen

Gerrit Review Workflow
How contributions pushed to Gerrit will be reviewed and what's the policy of a new patch to enter the v4 core? Find more about the "+1" policy.

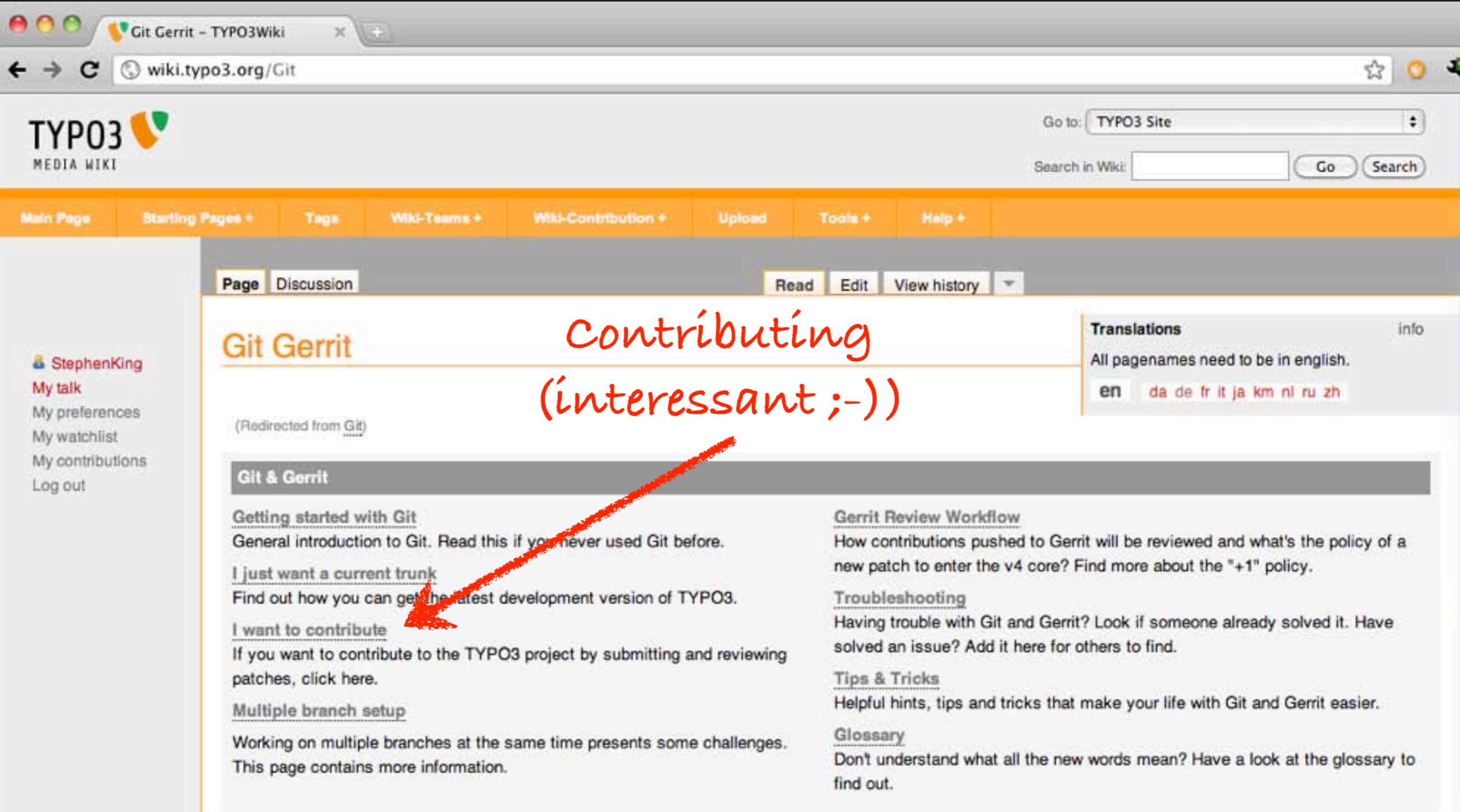
Troubleshooting
Having trouble with Git and Gerrit? Look if someone already solved it. Have solved an issue? Add it here for others to find.

Tips & Tricks
Helpful hints, tips and tricks that make your life with Git and Gerrit easier.

Glossary
Don't understand what all the new words mean? Have a look at the glossary to find out.

Translations info
All pagenames need to be in english.
en da de fr it ja km nl ru zh

Wiki: “Git” landing page



Git Gerrit – TYPO3Wiki

wiki.typo3.org/Git

TYPO3 MEDIA WIKI

Main Page Starting Pages + Tags Wiki-Teams + Wiki-Contribution + Upload Tools + Help +

Page Discussion Read Edit View history

Git Gerrit

(Redirected from Git)

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Contributing
(interessant ;-))

Translations info
All pagenames need to be in english.
en da de fr it ja km nl ru zh

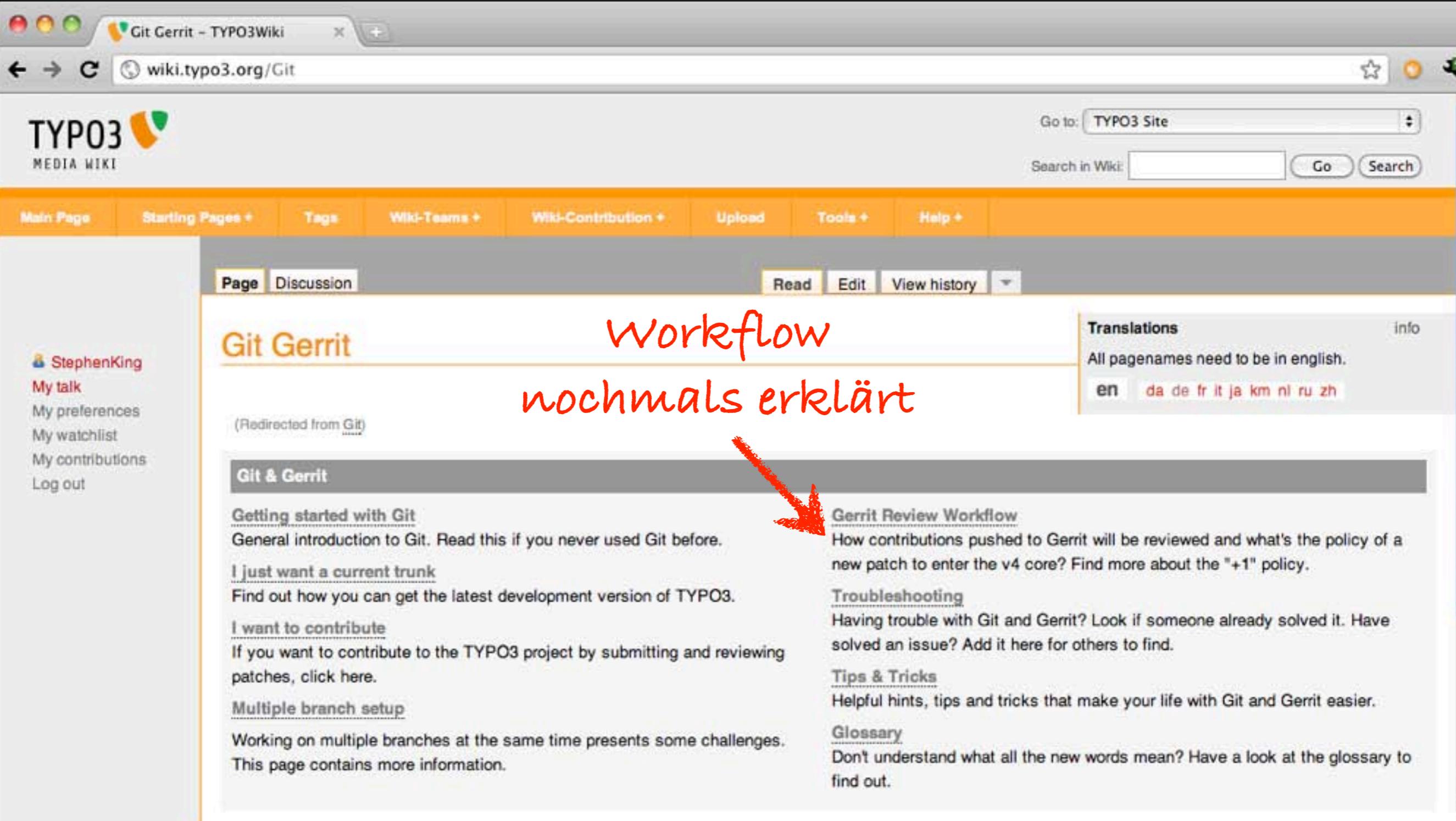
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Wiki: “Git” landing page



The screenshot shows a TYPO3 MediaWiki instance titled "Git Gerrit". The page has been redirected from the original "Git" page. The main content area features a large red annotation in the center-right that reads "Workflow nochmals erklärt". A red arrow points from the left side of the page towards this annotation. The page includes a sidebar with user links (StephenKing, My talk, My preferences, My watchlist, My contributions, Log out) and a navigation bar with tabs like Main Page, Starting Pages, Tags, Wiki-Teams, Wiki-Contribution, Upload, Tools, and Help.

Git Gerrit
(Redirected from Git)

Workflow nochmals erklärt

Git & Gerrit

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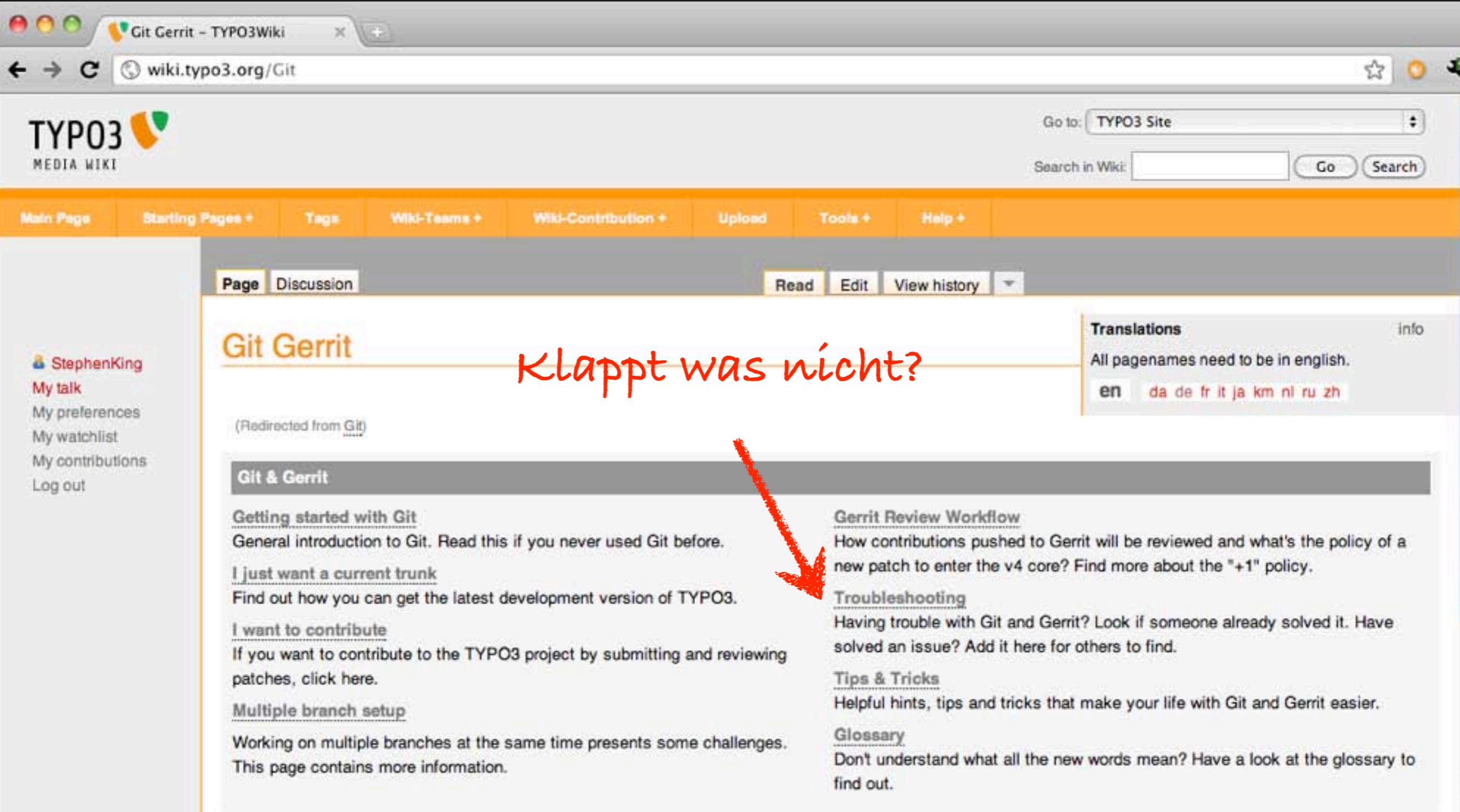
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Wiki: “Git” landing page



The screenshot shows a TYPO3 MediaWiki instance with the title "Git Gerrit". A large red arrow points from the heading "Klappt was nicht?" to the "Gerrit Review Workflow" section.

Git Gerrit
(Redirected from Git)

Klappt was nicht?

Translations
All pagenames need to be in english.
en da de fr it ja km nl ru zh

Git & Gerrit

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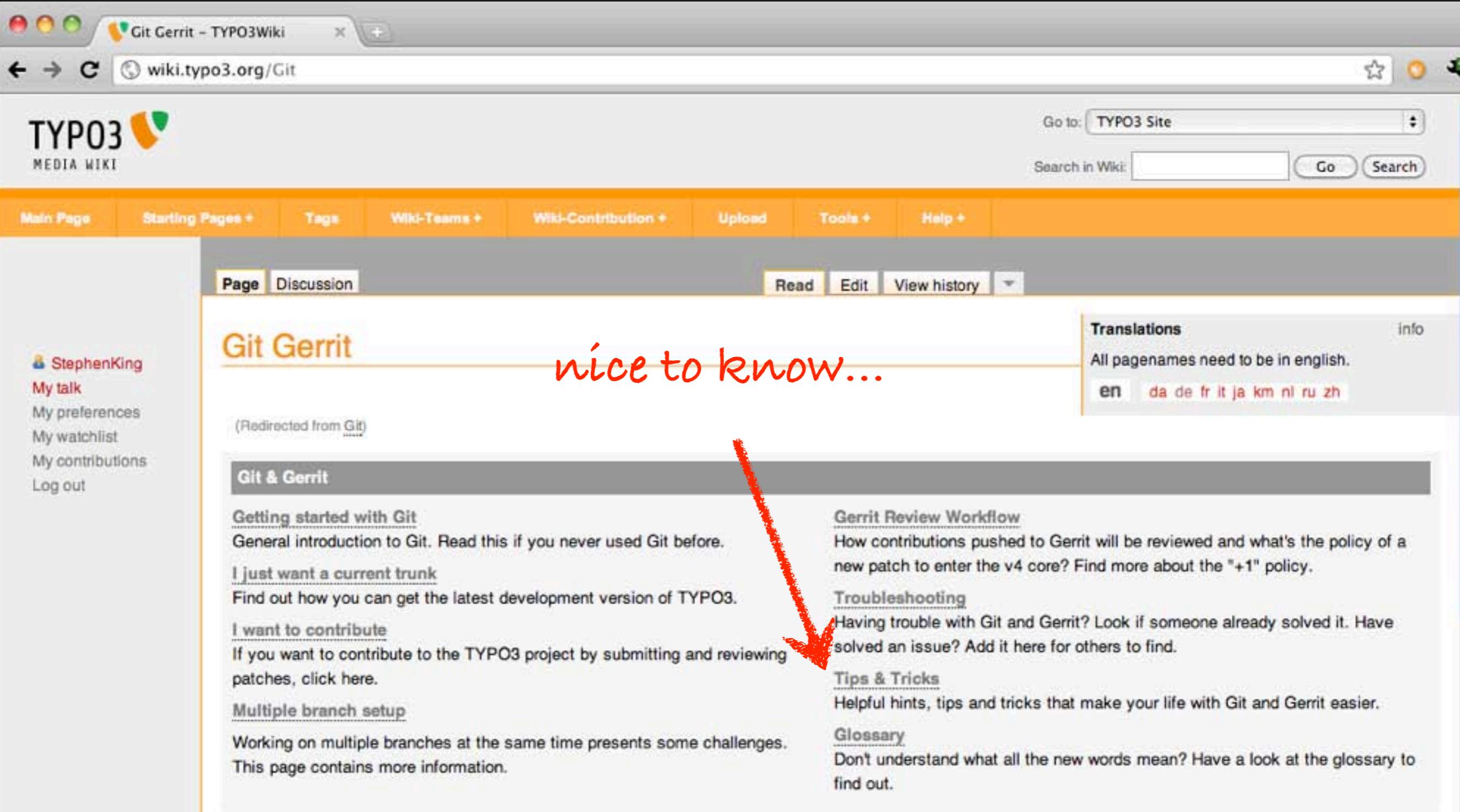
Gerrit Review Workflow
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Wiki: “Git” landing page



The screenshot shows a TYPO3 MediaWiki instance with the title "Git Gerrit". A red arrow points from the "nice to know..." sidebar to the "Tips & Tricks" section.

Page Discussion Read Edit View history

Git Gerrit

(Redirected from Git)

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en da de fr it ja km nl ru zh

nice to know...

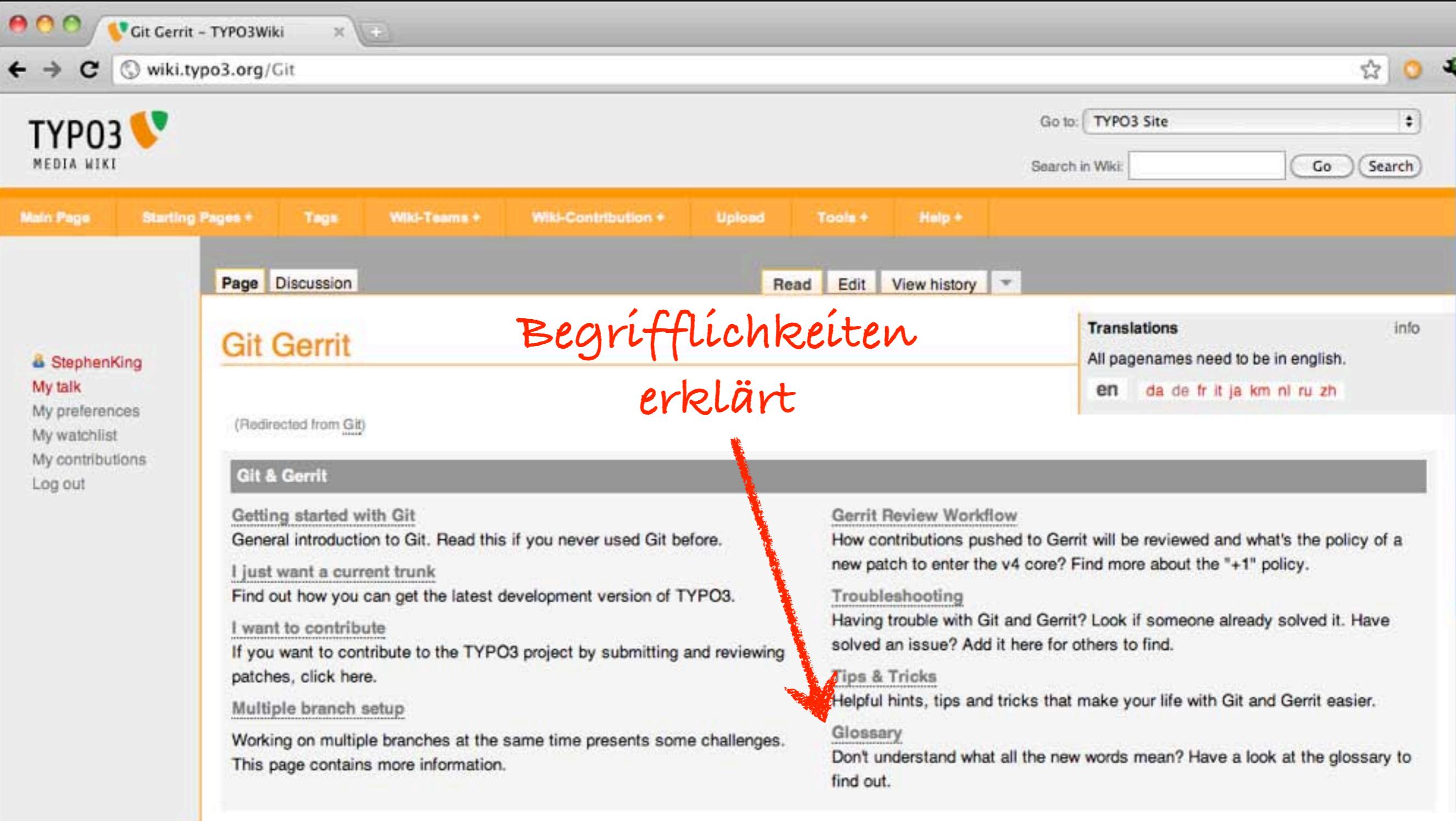
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Having trouble with Git and Gerrit? Look if someone already solved it. Have solved an issue? Add it here for others to find.

Tips & Tricks
Helpful hints, tips and tricks that make your life with Git and Gerrit easier.

Glossary
Don't understand what all the new words mean? Have a look at the glossary to find out.

Wiki: “Git” landing page

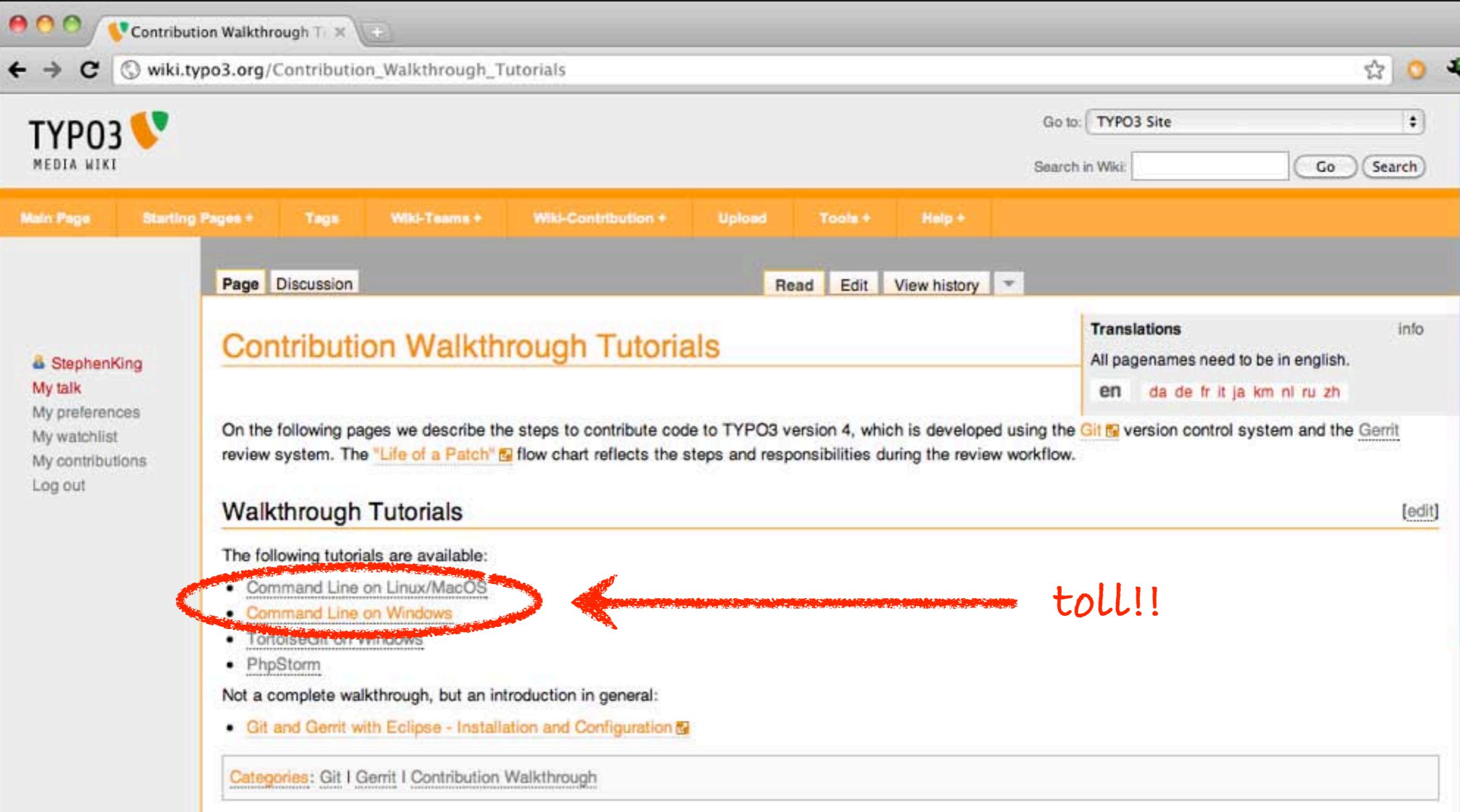


The screenshot shows a TYPO3 MediaWiki instance with the following details:

- Page Title:** Git Gerrit
- Page Content:** Begrifflichkeiten erklärt
(Redirected from Git)
- Section Headers:** Git & Gerrit, Getting started with Git, I just want a current trunk, I want to contribute, Multiple branch setup, Gerrit Review Workflow, Troubleshooting, Tips & Tricks, Glossary.
- User Sidebar:** StephenKing (My talk, My preferences, My watchlist, My contributions, Log out)
- Global Navigation:** Main Page, Starting Pages, Tags, Wiki-Teams, Wiki-Contribution, Upload, Tools, Help
- Search:** Go to: TYPO3 Site, Search in Wiki, Go, Search

A large red arrow has been drawn from the "Glossary" section at the bottom right to the main title "Begrifflichkeiten erklärt" in the center of the page.

Wiki: Tutorials



Contribution Walkthrough Tutorials

wiki.typo3.org/Contribution_Walkthrough_Tutorials

TYPO3 MEDIA WIKI

Main Page Starting Pages + Tags Wiki-Teams + Wiki-Contribution + Upload Tools + Help +

Page Discussion Read Edit View history

Contribution Walkthrough Tutorials

Translations info
All pagenames need to be in english.
en da de fr it ja km nl ru zh

On the following pages we describe the steps to contribute code to TYPO3 version 4, which is developed using the [Git](#) version control system and the [Gerrit](#) review system. The "Life of a Patch" flow chart reflects the steps and responsibilities during the review workflow.

Walkthrough Tutorials [edit]

The following tutorials are available:

- Command Line on Linux/MacOS
- Command Line on Windows
- TortoiseGit on Windows
- PhpStorm

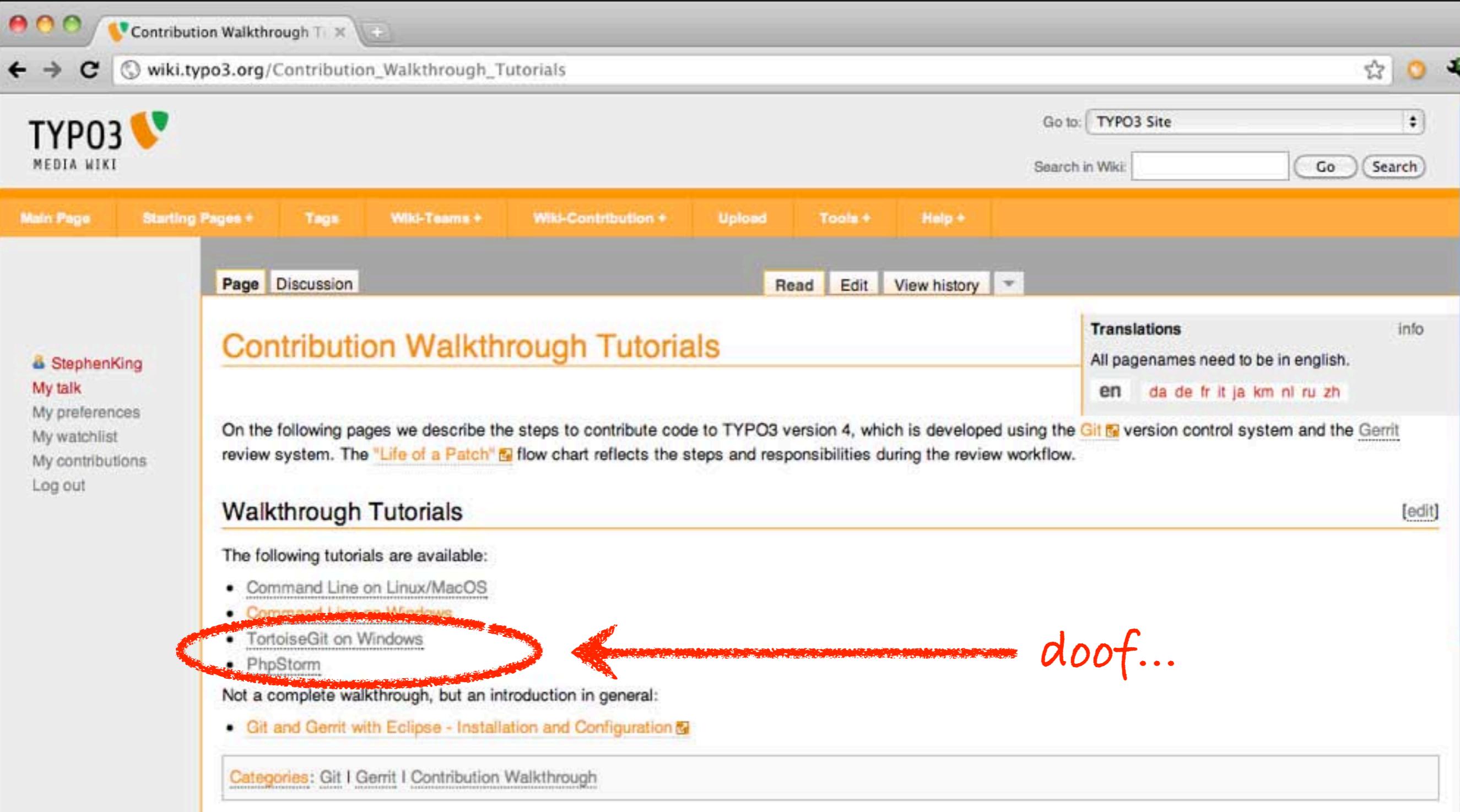
Not a complete walkthrough, but an introduction in general:

- Git and Gerrit with Eclipse - Installation and Configuration

Categories: Git | Gerrit | Contribution Walkthrough

toll!!

Wiki: Tutorials



Contribution Walkthrough Tutorials

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Not a complete walkthrough, but an introduction in general:

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Categories: Git | Gerrit | Contribution Walkthrough

doof...

Wiki: Ausführliche CLI-Anleitung

The screenshot shows a web browser window with the following details:

- Title Bar:** Contribution Walkthrough
- Address Bar:** wiki.typo3.org/Contribution_Walkthrough_with_CommandLine
- Page Header:** TYPO3 MEDIA WIKI
- Page Navigation:** Main Page, Starting Pages, Tags, Wiki-Teams, Wiki-Contribution, Upload, Tools, Help
- Page Content:**
 - Section:** Contribution Walkthrough with CommandLine
 - Introduction:** This walkthrough requires basic knowledge of Git and the command line.
 - Setting up a Git repository:**
 - Sub-section:** Install Git
 - Description:** On *nix (Linux, Mac OS X, FreeBSD, ...), the shell can be used. Windows users have to open the Git shell via *All Programs > Git > Git bash* to follow this tutorial.
 - Sub-section:** Get the repository and all submodules contents. You retrieve it by cloning the repository into the directory `typo3_src-git`:
 - Text:** shell script:
- Right Sidebar:**
 - Translations:** All pagenames need to be in english.
 - Links:** en da de fr it ja km nl ru zh
 - Contents:**
 - 1 Introduction
 - 2 Setting up a Git repository
 - 3 Setting up your environment
 - 4 Reviewing a Change Request (RFC)
 - 4.1 Improving the patch and uploading a new Patch Set
 - 5 Starting a new Change Request (RFC)
 - 6 Backporting a change to other branches

Probleme?

- ❖ Fragen!
- ❖ Mailinglisten / Newsgroups
 - typo3.core
 - typo3.dev
- ❖ lists.typo3.org

Nicht angesprochen...

- Neue Patchversion erstellen
`git commit --amend`

modifiziert vorherigen
Commit





?



inspiring people to share.