

Mechanics of Using Git (With a GUI)



Xavier Morera

PASSIONATE ABOUT TEACHING

@xmorera www.xaviermorera.com



More Bang For
Your Buck

Git 101



Beyond Learning Git's Commands & Actions



Git 101: What You Need to Get Started

Work

Get Code

Branching

Stashing
Discarding
Ignoring

Staging
Conflicts
Commit

Merge
Push
Pull Requests

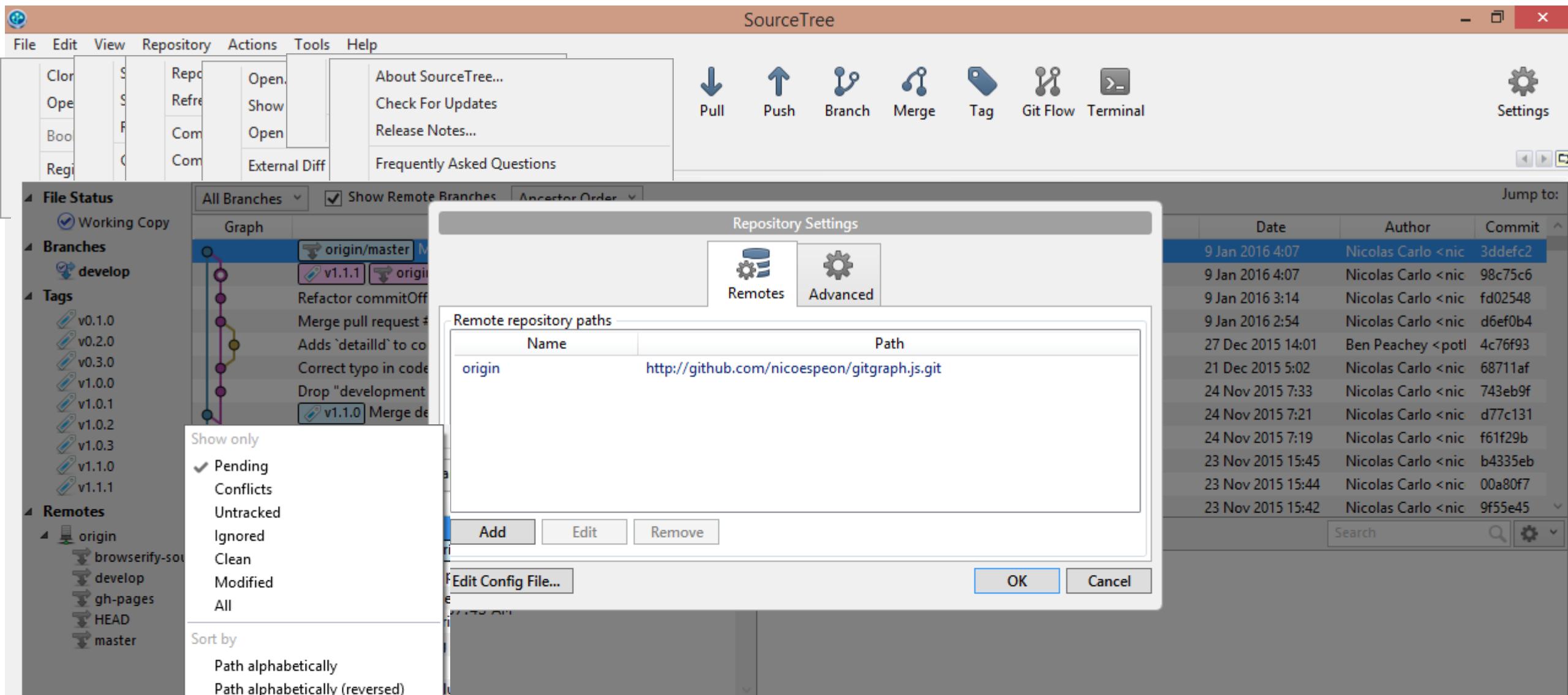
Cleanup



Quick Tour Around Atlassian SourceTree



Menus, Dropdown and Commands





Pluralsight

Usados.cr

usados-net-app
-2 -115 | UltUsadosAdmin D:
✓ ? 2 | DepenConsultesuvin D:
✓ | Limit masterusing-git-with-gui
✓ ? 1 | mastergitgraph D:\Dropbc
+1 ? 1 | developsolnet D:\github\s
? 1 | LimitTesting D:\pluralsig
✓ | mastersolnet D:\github\n
✓ | master

gitgraph x using-git-with-gui x Testing x solnet x solnet x

File Status		All Branches	<input checked="" type="checkbox"/> Show Remote Branches	Date Order	Jump to:			
		Graph	Description			Date	Author	Commit
Uncommitted changes						18 Jan 2016 21:01	*	*
			origin/master	origin/HEAD	master	Merge branch 'master' of https://github.com/maus...	xmorera <xavier@f...	78e929b
			Merge remote-tracking branch 'origin/patch-5'			18 Jan 2016 16:52	xmorera <xavier@f...	ca5b805
			Extraparams	Merge branch 'develop'		18 Jan 2016 16:39	xmorera <xavier@f...	5d9828d
			Limit	develop	Include information on LocalParams	18 Jan 2016 16:10	xmorera <xavier@f...	4829666
			master		Merge remote-tracking branch 'origin/patch-3'	18 Jan 2016 16:09	xmorera <xavier@f...	9e18f14
					Merge remote-tracking branch 'origin/patch-2'	13 Jan 2016 16:30	xmorera <xavier@f...	85692b9
					upstream/master #213 Public Cursor constructor	29 Sep 2015 19:38	mausch <mauricic...	f8fd4d6
					0.5.0a2 Bump version to 0.5.0-alpha2	20 Aug 2015 17:28	mausch <mauricic...	8a39334
					Include original exception	20 Aug 2015 16:23	mausch <mauricic...	4758ae1
					Update README.md	20 Aug 2015 9:53	Mauricio Scheffer...	e7a35b0
					Update README.md	20 Aug 2015 9:52	Mauricio Scheffer...	e35080d

Pending files, sorted by path

 Staged files Documentation/Facets.md Unstaged files Documentation/Facets.md

Search



Documentation/Facets.md

150	150	- connector (2)
151	151	- graphics card (2)
152	152	..

153	154	+ Need to add something here
153	155	
154	156	
155	157	

Additional information to be found in:
http://wiki.apache.org/solr/HierarchicalFaceting#Pivot_Facets

Stage hunk	Discard hunk
------------	--------------



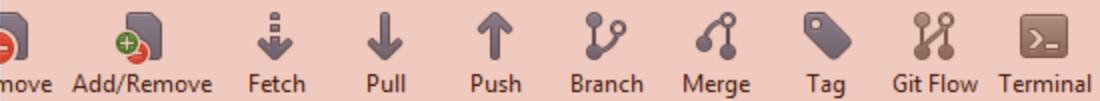
File Status Log / History Search

1 | Limit Atlassian



Pluralsight

Usados.cr

usados-ne
- 2 - 115UsadosAdm
✓ ? 2 | ?Consultes
✓ | masusing-git-wit
✓ ? 1 | ? mgitgraph D:\v
+ 1 ? 1 | ?solnet D:\g
? 1 | ? LimitTesting D:\p
✓ | ? mastersolnet D:\g
✓ | ? master

Settings

- Repository Settings... Shift+Ctrl+,
- Refresh Remote Status Shift+Alt+R
- Commit All... Shift+Ctrl+C
- Commit Selected... Shift+Alt+C
- Discard... Shift+Ctrl+R
- Stash Changes... Shift+Ctrl+S
- Push... Shift+Ctrl+P
- Pull... Shift+Ctrl+L
- Fetch... Shift+Ctrl+F
- Checkout... Shift+Ctrl+U
- Branch... Shift+Ctrl+B
- Merge... Shift+Ctrl+M
- Tag... Shift+Ctrl+T
- Archive...
- Interactive Rebase...
- Add Remote...
- Add Submodule...
- Add/Link Subtree...
- Git Flow
- Create pull request... Shift+Alt+P

		Description	Date	Author	Commit
Uncommitted changes					
	origin/master	origin/HEAD master Limit Merge branch 'master' of https://github.com/mausch/solnet into 'master'	18 Jan 2016 21:01	*	*
	origin/patch-5	Merge remote-tracking branch 'origin/patch-5'	18 Jan 2016 16:39	xmorera <xavier@f...	ca5b805
	develop	Extraparams Merge branch 'develop'	18 Jan 2016 16:10	xmorera <xavier@f...	5d9828d
	develop	develop Include information on LocalParams	18 Jan 2016 16:09	xmorera <xavier@f...	4829666
	patch-3	Merge remote-tracking branch 'origin/patch-3'	13 Jan 2016 16:30	xmorera <xavier@f...	9e18f14
	patch-2	Merge remote-tracking branch 'origin/patch-2'	13 Jan 2016 16:30	xmorera <xavier@f...	85692b9
	upstream/master	upstream/master #213 Public Cursor constructor	29 Sep 2015 19:38	mausch <mauricic...	f8fd4d6
	0.5.0a2	0.5.0a2 Bump version to 0.5.0-alpha2	20 Aug 2015 17:28	mausch <mauricic...	8a39334
	patch-1	include original exception	20 Aug 2015 16:23	mausch <mauricic...	4758ae1
	README.md	Update README.md	20 Aug 2015 9:53	Mauricio Scheffer...	e7a35b0
	README.md	Update README.md	20 Aug 2015 9:52	Mauricio Scheffer...	e35080d

Search

Documentation/Facets.md
...

150 150
- connector (2)

151 151
- graphics card (2)

152 152
..

153 153
+

154 154
+

155 155
Need to add something here

156 156
Additional information to be found in:

157 157
http://wiki.apache.org/solr/HierarchicalFaceting#Pivot_Facets

Stage hunk
Discard hunk

Unstaged files

Documentation/Facets.md

File Status Log / History Search

? 1 | ? Limit Atlassian



Pluralsight gitgraph ✎ using-git-with-gui ✎ Testing ✎ solrnet ✎ solrnet ✎

Usados.cr

usados-net-app
- 2 - 115 | Ult

UsadosAdmin D:
✓ ? 2 | Depen

Consultesuvin D:
✓ | Limit master

using-git-with-gui
✓ ? 1 | master

gitgraph D:\Dropbc
+ 1 ? 1 | develop

solrnet D:\github\s
! 1 | Limit

Testing D:\pluralsig
✓ | master

solrnet D:\github\n
✓ | master

		All Branches	<input checked="" type="checkbox"/> Show Remote Branches	Date Order	Jump to:			
		Graph	Description			Date	Author	Commit
		Uncommitted changes				18 Jan 2016 21:01	*	*
		origin/master	Merge branch 'master' of https://github.com/maus	18 Jan 2016 16:52	xmorera <xavier@f	78e929b		
		origin/HEAD	Merge remote-tracking branch 'origin/patch-5'	18 Jan 2016 16:39	xmorera <xavier@f	ca5b805		
		master	Merge branch 'develop'	18 Jan 2016 16:10	xmorera <xavier@f	5d9828d		
		Limit	Extraparams Merge branch 'develop'	18 Jan 2016 16:09	xmorera <xavier@f	4829666		
			Extraparams Include information on LocalParams	18 Jan 2016 16:09	xmorera <xavier@f	9e18f14		
			Merge remote-tracking branch 'origin/patch-3'	13 Jan 2016 16:30	xmorera <xavier@f	85692b9		
			Merge remote-tracking branch 'origin/patch-2'	13 Jan 2016 16:30	xmorera <xavier@f	f8fd4d6		
			upstream/master #213 Public Cursor constructor	29 Sep 2015 19:38	mausch <mauricic	mausch <mauricic	8a39334	
			0.5.0a2 Bump version to 0.5.0-alpha2	20 Aug 2015 17:28	mausch <mauricic	mausch <mauricic	4758ae1	
			Include original exception	20 Aug 2015 16:23	mausch <mauricic	mausch <mauricic	e7a35b0	
			Update README.md	20 Aug 2015 9:53	Mauricio Scheffer	Mauricio Scheffer	e35080d	
			Update README.md	20 Aug 2015 9:52	Mauricio Scheffer	Mauricio Scheffer		

Pending files, sorted by path

Staged files

Documentation/Facets.md

Unstaged files

Documentation/Facets.md

Search



Documentation/Facets.md

Stage hunk

Discard hunk

150 150	- connector (2)
151 151	- graphics card (2)
152 152	..
153 153	+ Need to add something here
154 154	
155 155	
156 156	
157 157	Additional information to be found in: http://wiki.apache.org/solr/HierarchicalFaceting#Pivot_Facets



File Status Log / History Search

! 1 | Limit

Atlassian



Pluralsight

Usados.cr

usados-net-app
-2 -115 | UltUsadosAdmin D:
✓ ? 2 | DepenConsultesuvin D:
✓ | Limit masterusing-git-with-gui
✓ ? 1 | mastergitgraph D:\Dropbc
+1 ? 1 | developsolnet D:\github\s
! 1 | LimitTesting D:\pluralsig
✓ | mastersolnet D:\github\n
✓ | master

gitgraph x using-git-with-gui x Testing x solnet x solnet x

File Status		All Branches	<input checked="" type="checkbox"/> Show Remote Branches	Date Order	Jump to:			
		Graph	Description			Date	Author	Commit
Uncommitted changes						18 Jan 2016 21:01	*	*
			origin/master	origin/HEAD	master	Merge branch 'master' of https://github.com/maus...	xmorera <xavier@f...	78e929b
			Merge remote-tracking branch 'origin/patch-5'			18 Jan 2016 16:52	xmorera <xavier@f...	ca5b805
			Extraparams	Merge branch 'develop'		18 Jan 2016 16:39	xmorera <xavier@f...	5d9828d
			develop	Extraparams	Include information on LocalParams	18 Jan 2016 16:10	xmorera <xavier@f...	4829666
			Limit	develop	Merge remote-tracking branch 'origin/patch-3'	18 Jan 2016 16:09	xmorera <xavier@f...	9e18f14
			master	Limit	Merge remote-tracking branch 'origin/patch-2'	13 Jan 2016 16:30	xmorera <xavier@f...	85692b9
				upstream/master	#213 Public Cursor constructor	29 Sep 2015 19:38	mausch <mauricic...	f8fd4d6
				0.5.0a2	Bump version to 0.5.0-alpha2	20 Aug 2015 17:28	mausch <mauricic...	8a39334
					Include original exception	20 Aug 2015 16:23	mausch <mauricic...	4758ae1
					Update README.md	20 Aug 2015 9:53	Mauricio Scheffer...	e7a35b0
					Update README.md	20 Aug 2015 9:52	Mauricio Scheffer...	e35080d

Pending files, sorted by path

Search

 Staged files Documentation/Facets.md

Stage hunk

Discard hunk

 Unstaged files Documentation/Facets.md

Documentation/Facets.md

```
150 150 - connector (2)
151 151 - graphics card (2)
152 152 ...
153 153 +
154 154 +
155 155 Need to add something here
156 156 ...
157 157 Additional information to be found in:

```

http://wiki.apache.org/solr/HierarchicalFaceting#Pivot_Facets



File Status Log / History Search

! 1 | Limit

Atlassian

Icons



Green checkmark



Yellow circle with three



Blue circle with question mark



Red circle with minus



Greyed out icon



Arrows with a name



Up or down arrow

No differences

Changed files

Untracked files

Deleted files

Deleted

Checked out branch

Waiting push/pull





Pluralsight

Usados.cr

usados-net-app D:\Dropbox\usados-net-app
- 2 - 115 | Ultimo_de_ConsultaSuVinUsadosAdmin D:\Dropbox\UsadosAdminV2\src
✓ 2 | Dependencias_locales_v2Consultesuvin D:\Dropbox\Consultesuvin
✓ | masterusing-git-with-gui D:\Dropbox\xavier-morera-pluralsight-dev
1 1 | mastergitgraph D:\Dropbox\xavier-morera-pluralsight-dev
+ 1 ? 1 | developsolnet D:\github\solnet
1 | LimitTesting D:\pluralsight\testing
✓ | mastersolnet D:\github\mausch\solnet
✓ | master

New Folder

gitgraph x using-git-with-gui x Testing x solnet x solnet x

File Status

 Working Copy

Branches

develop
Extraparams
Limit
master

Tags

Remotes

origin
upstream

All Branches

 Show Remote Branches

Date Order

Jump to:

	Description	Date	Author	Commit
	Uncommitted changes	18 Jan 2016 22:12	*	*
	origin/master origin/HEAD master Limit Merge branch 'master'	18 Jan 2016 16:52	xmorera <xavier@f	78e929b
	Merge remote-tracking branch 'origin/patch-5'	18 Jan 2016 16:39	xmorera <xavier@f	ca5b805
	Extraparams Merge branch 'develop'	18 Jan 2016 16:10	xmorera <xavier@f	5d9828d
	develop Include information on LocalParams	18 Jan 2016 16:09	xmorera <xavier@f	4829666
	Merge remote-tracking branch 'origin/patch-3'	13 Jan 2016 16:30	xmorera <xavier@f	9e18f14
	Merge remote-tracking branch 'origin/patch-2'	13 Jan 2016 16:30	xmorera <xavier@f	85692b9
	upstream/master #213 Public Cursor constructor	29 Sep 2015 19:38	mausch <mauricic	f8fd4d6
	0.5.0a2 Bump version to 0.5.0-alpha2	20 Aug 2015 17:28	mausch <mauricic	8a39334
	Include original exception	20 Aug 2015 16:23	mausch <mauricic	4758ae1
	Update README.md	20 Aug 2015 9:53	Mauricio Scheffer	e7a35b0
	Update README.md	20 Aug 2015 9:52	Mauricio Scheffer	e35080d

Pending files, sorted by path

 Staged files Documentation/Facets.md Unstaged files Documentation/Facets.md

Search



Documentation/Facets.md

```

10 10
11 11
12 12
13 + #### Facet Limits
14 + There is a possibility that a field that you are
15 +
16 + Simply set Limit to the number of values that you
17 + ````c#
18 + var fq = new SolrFacetFieldQuery("pepe") {Limit :
19 +
20 +
21 + Or on the other hand your project requires all fa
22 +
23 + ### Querying by field

```

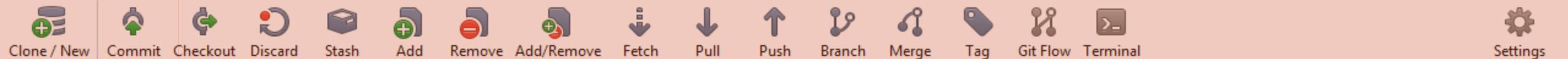
File Status

Log / History

Search

1 | Limit

Atlassian



Pluralsight

Usados.cr

usados-net-app

-2 -115 | Ult

UsadosAdmin D:

✓ ?2 | Deper

Consultesuvin D:

✓ | Limit

using-git-with-gui

✓ ?1 | master

gitgraph D:\Dropbc

+1 ?1 | develop

solnet D:\github\s

?1 | Limit

Testing D:\pluralsig

✓ | master

solnet D:\github\n

✓ | master

gitgraph X using-git-with-gui X Testing X solnet X solnet X

File Status Working Copy**Branches**

develop

Extraparams

Limit

master

Tags**Remotes**

origin

upstream

All Branches Show Remote Branches Date Order

Jump to:

Graph	Description	Date	Author	Commit
Uncommitted changes		18 Jan 2016 21:01	*	*
origin/master	Merge branch 'master' of https://github.com/maus...	18 Jan 2016 16:52	xmorera <xavier@f...	78e929b
origin/HEAD	Merge remote-tracking branch 'origin/patch-5'	18 Jan 2016 16:39	xmorera <xavier@f...	ca5b805
master	Merge branch 'develop'	18 Jan 2016 16:10	xmorera <xavier@f...	5d9828d
Limit	Extraparams Merge branch 'develop'	18 Jan 2016 16:09	xmorera <xavier@f...	4829666
	Include information on LocalParams	18 Jan 2016 16:09	xmorera <xavier@f...	9e18f14
	Merge remote-tracking branch 'origin/patch-3'	13 Jan 2016 16:30	xmorera <xavier@f...	85692b9
	Merge remote-tracking branch 'origin/patch-2'	13 Jan 2016 16:30	xmorera <xavier@f...	f8fd4d6
upstream/master	#213 Public Cursor constructor	29 Sep 2015 19:38	mausch <mauricic...	mausch <mauricic...
0.5.0a2	Bump version to 0.5.0-alpha2	20 Aug 2015 17:28	mausch <mauricic...	8a39334
	Include original exception	20 Aug 2015 16:23	mausch <mauricic...	4758ae1
	Update README.md	20 Aug 2015 9:53	Mauricio Scheffer...	e7a35b0
	Update README.md	20 Aug 2015 9:52	Mauricio Scheffer...	e35080d

Pending files, sorted by path

Search

 Staged files Documentation/Facets.md

Stage hunk

Discard hunk

 Unstaged files Documentation/Facets.md

Documentation/Facets.md

```
150 150 - connector (2)
151 151 - graphics card (2)
152 152 ...
153 153 ...
154 154 ...
155 155 ...
156 156 ...
157 157 ...
```

Need to add something here

Additional information to be found in:
http://wiki.apache.org/solr/HierarchicalFaceting#Pivot_Facets



File Status Log / History Search

1 | Limit Atlassian



Pluralsight

Usados.cr

usados-net-app
-2 -115 | UltUsadosAdmin D:
✓ ? 2 | DepenConsultesuvin D:
✓ | masterusing-git-with-gui
1 1 | mastergitgraph D:\Dropbc
+1 ? 1 | developsolnet D:\github\s
1 | LimitTesting D:\pluralsig
✓ | mastersolnet D:\github\n
✓ | master

gitgraph x using-git-with-gui x Testing x solnet x solnet x

Search



Pending files, sorted by path

 Staged files Documentation/Facets.md

Documentation/Facets.md

Unstage hunk

```
10 10
11 11
12 12
13 + ##### Facet Limits
14 + There is a possibility that a field that you are using as a facet
15 +
16 + Simply set Limit to the number of values that you want Solr to ret
17 + ````c#
18 + var fq = new SolrFacetFieldQuery("pepe") {Limit = 5};
19 +
20 +
21 + Or on the other hand your project requires all facets to be return
22 +
23 + #### Querying by field
24 + Querying by field is handled by the `SolrFacetFieldQuery` class. R
25 
```

 Unstaged files Documentation/Facets.md

Commit message

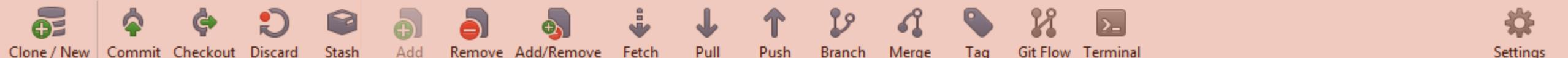
File Status

Log / History

Search

1 | Limit

Atlassian



Pluralsight

Usados.cr

usados-net-app
-2 -115 | UltUsadosAdmin D:
✓ ? 2 | DepenConsultesuvin D:
✓ | Limit masterusing-git-with-gui
1 1 | mastergitgraph D:\Dropbc
+1 ? 1 | developsolnet D:\github\s
1 | LimitTesting D:\pluralsig
✓ | mastersolnet D:\github\n
✓ | Limit master

gitgraph x using-git-with-gui x Testing x solnet x solnet x

Search: Commit Messages

	Description	Date	Author	Commit
	Merge pull request #199 from xavermorera/patch-5	19 May 2015 8:57	Mauricio Scheffer	1060f11
	Additional parameters for highlighting	19 May 2015 7:55	xavermorera <xavi>	ccba187

Sorted by path

Search



Commit: ccba1874d3587c6a953a2ef27875eb6095bd233b [ccba187]



Parents: be21bacb1a

Author: xavermorera <xavier@familiamorera.com>

Date: Tuesday, May 19, 2015 7:55:43 AM

Labels: origin/patch-5

Additional parameters for highlighting

Explains how to add additional parameters to highlighting via the use of ExtraParams

Documentation/Highlighting.md

Reverse hunk

```

22 22 features: <em>Noise</em>Guard, SilentSeek technology, Fluid Dynamic Beam
23 23 ``
24 24
25 25 + If you need to specify additional parameters, for example the snippet :
26 26 + ```
27 27 + Dictionary<string, string> extraParams = new Dictionary<string, string>;
28 28 + extraParams.Add("f.features.hl fragsize", "250");
29 29 + ``
30 30 +
31 31 The results object will include:
32 32 - A Highlights property which is an IDictionary<string, SolNet.Impl.H
33 33 - The string corresponds to the document uniquekey

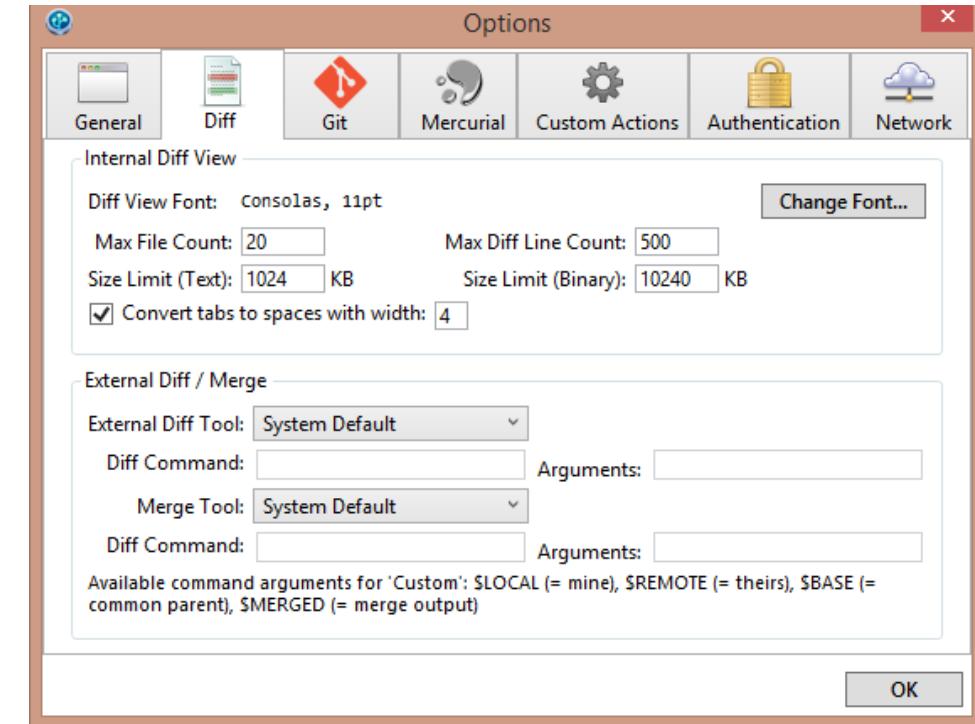
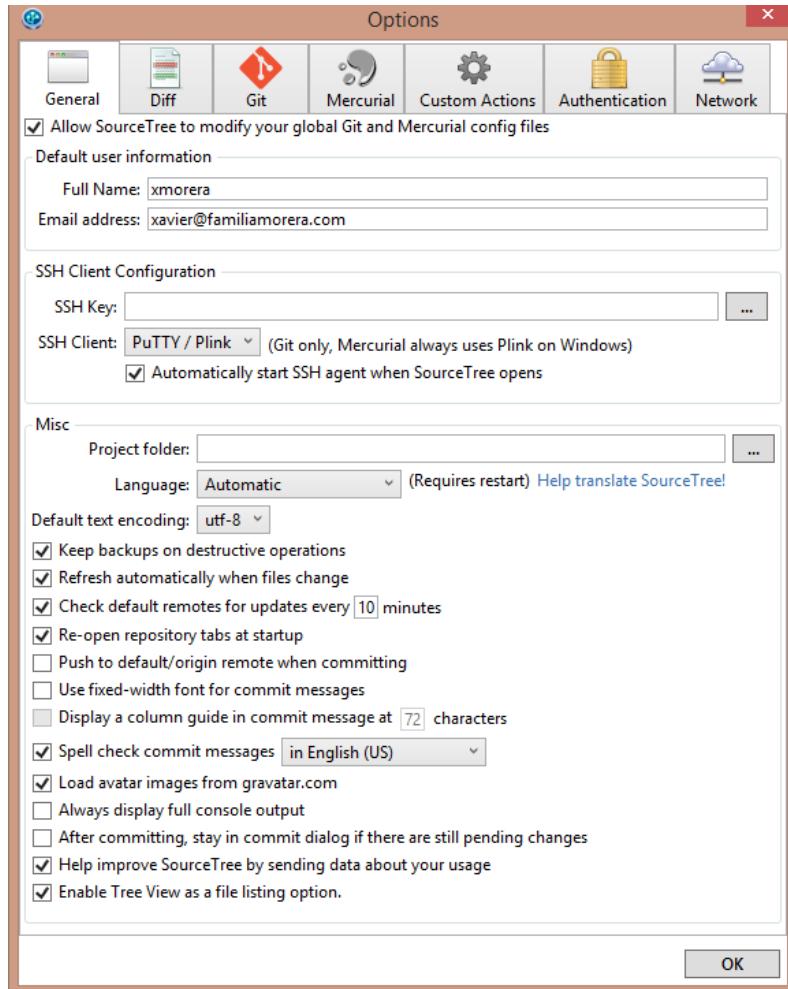
```



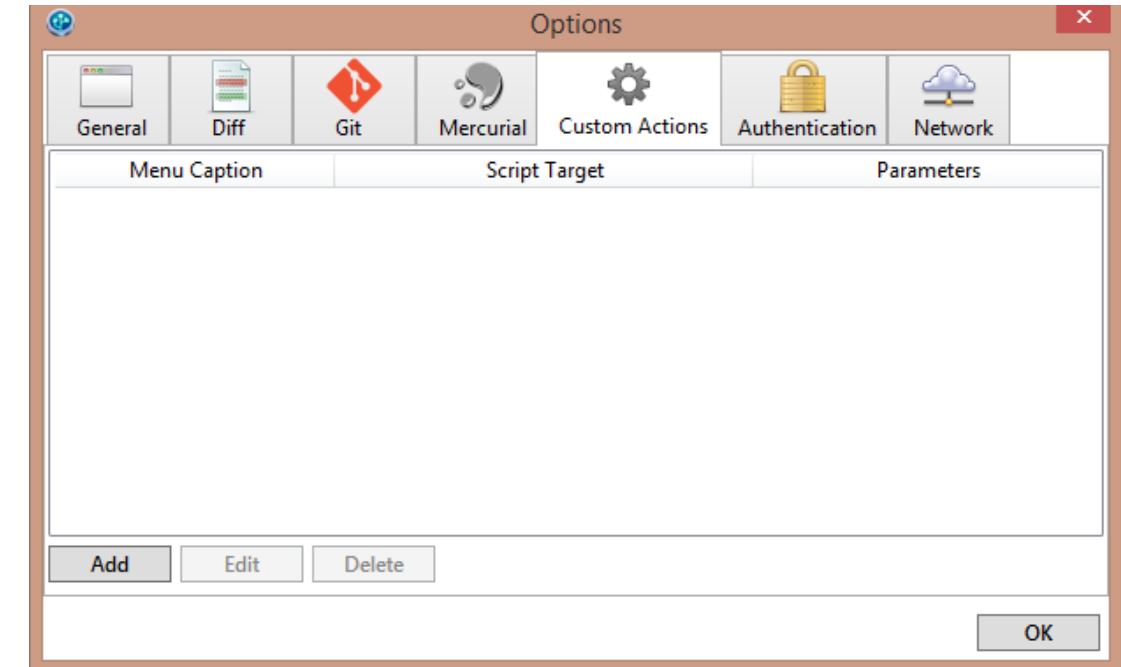
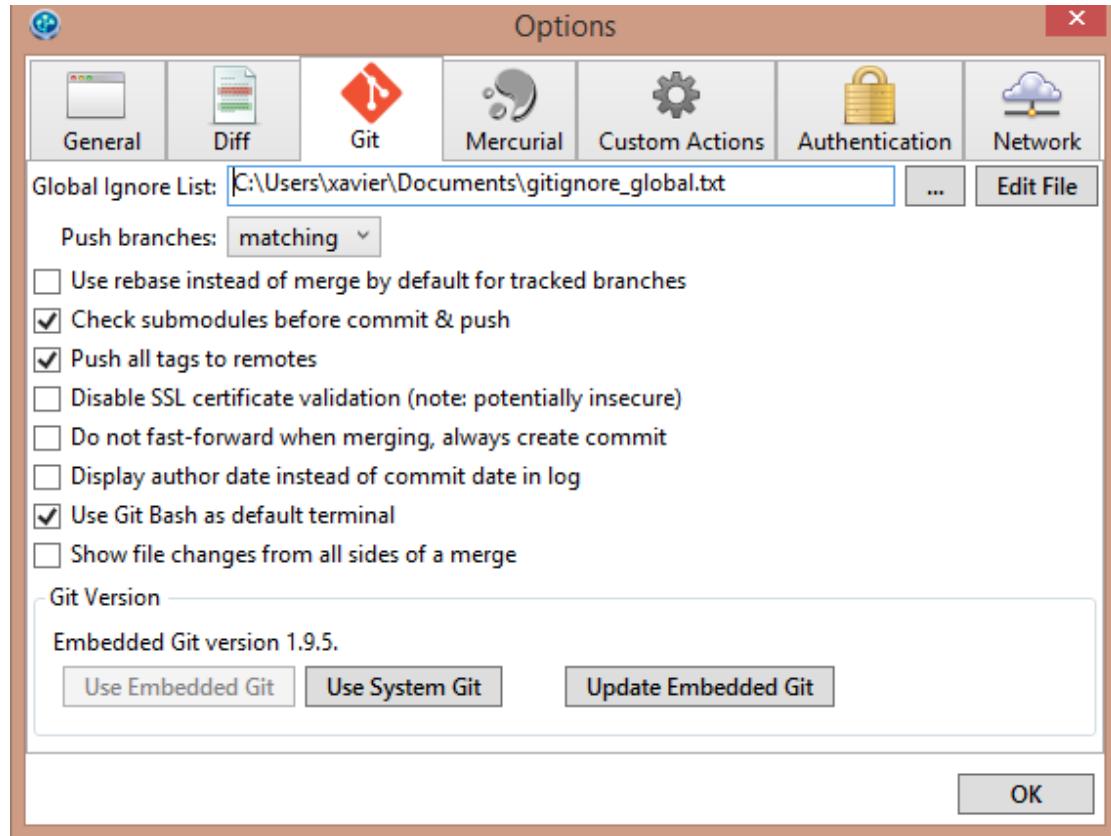
File Status Log / History Search

1 | Limit Atlassian

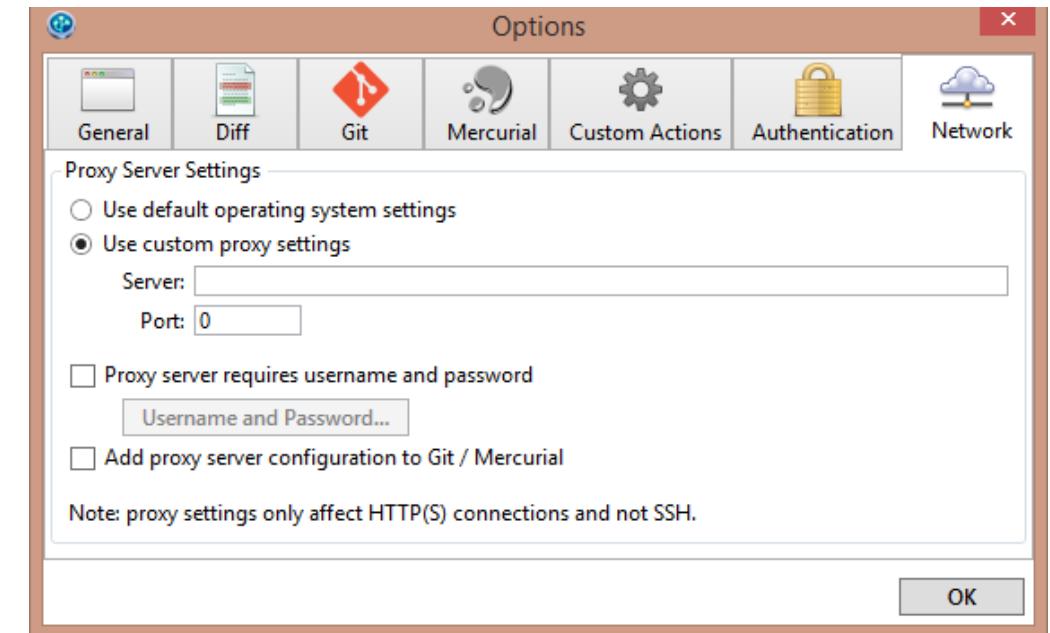
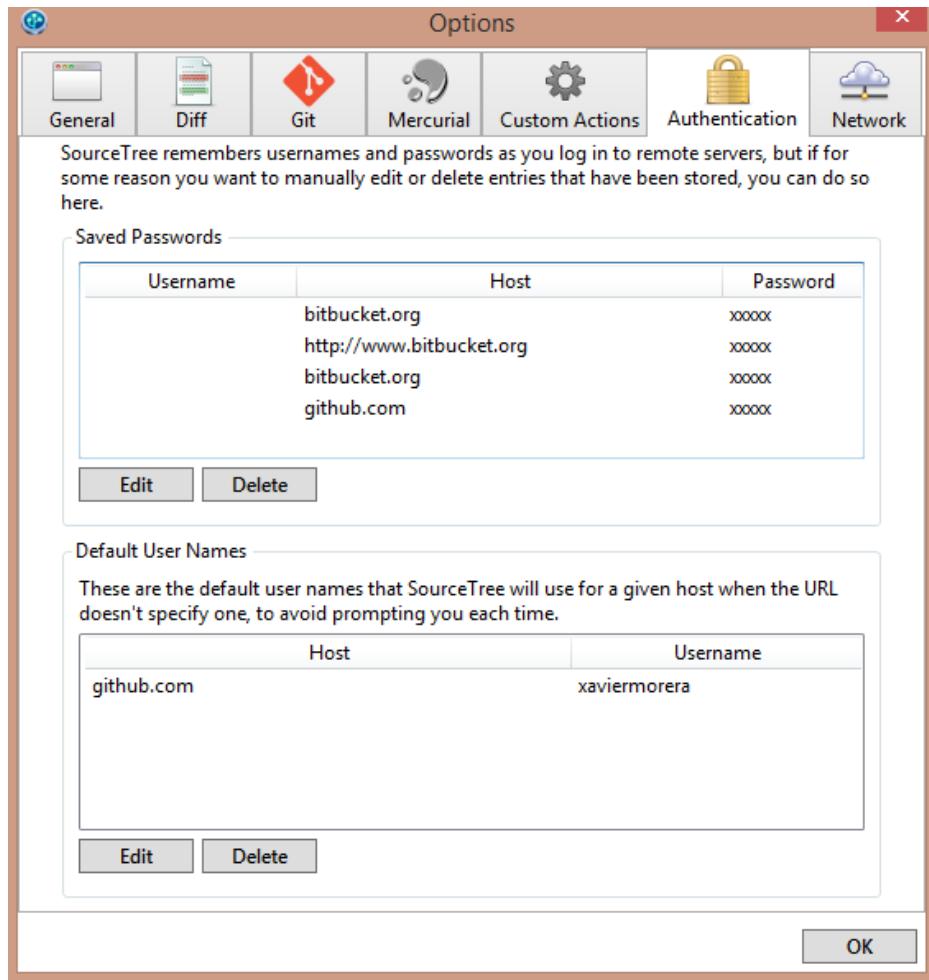
Options



Options



Options



Getting the Code

You need code!

Fork
(optional)

Clone

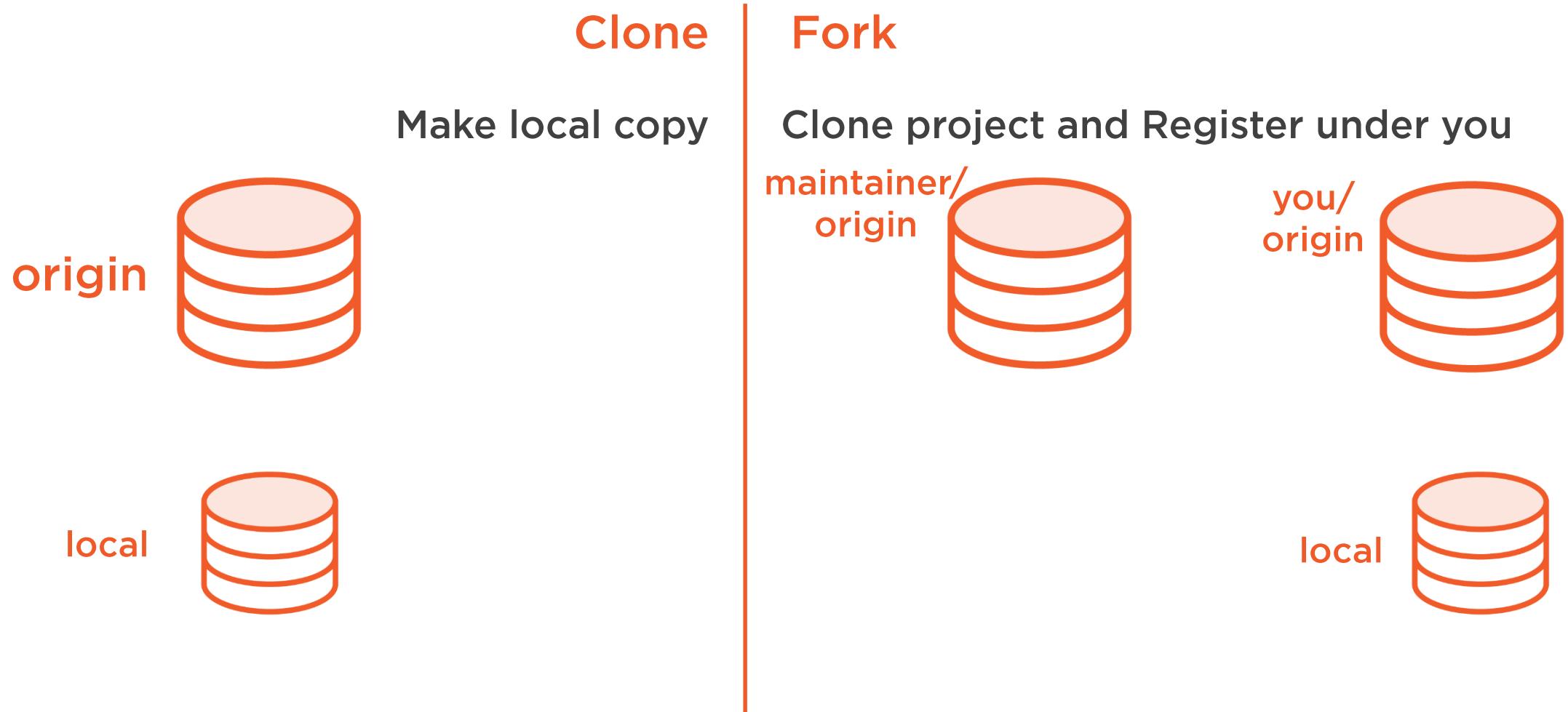
Checkout

* with a few exceptions

> git clone, >git branch & >git checkout



Basic Concept: Clone Out vs. Fork



Fork

The image shows two GitHub repository pages side-by-side, illustrating the concept of a fork.

Top Repository (Forked):

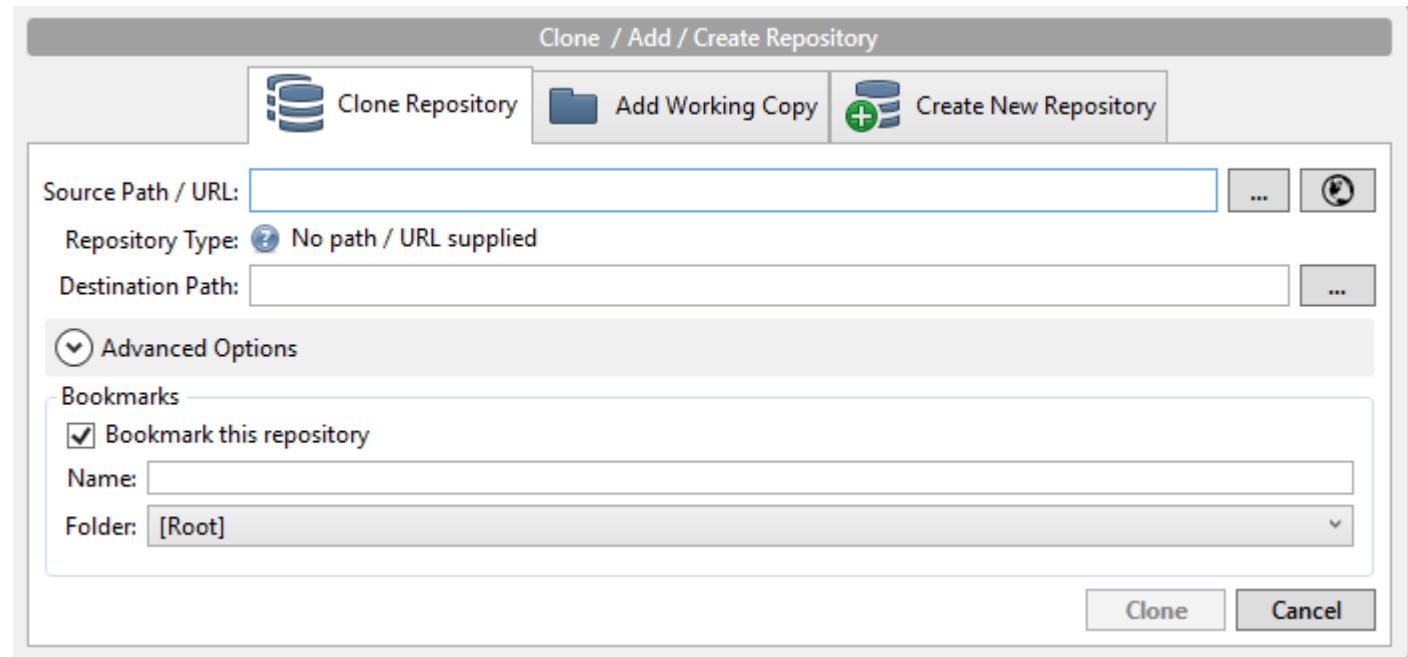
- Owner:** xavermorera
- Name:** SolrNet
- Description:** forked from mausch/SolrNet
- Statistics:** Unwatched (1), 0 stars, 389 forks
- Code View:** 1,414 commits, 13 branches, 15 releases, 45 contributors
- Branch:** master
- Actions:** New pull request, New file, Find file, HTTPS, Download ZIP
- Commit:** mausch #213 Public Cursor constructor (latest commit f8fd4d6 on Sep 29, 2015)

Bottom Repository (Original):

- Owner:** mausch
- Name:** SolrNet - C#
- Description:** Solr client for .Net
- Statistics:** Unwatched (97), 482 stars, 389 forks
- Code View:** Issues (59), Pull requests (19), Pulse, Graphs
- Branch:** master
- Actions:** New pull request, New file, Find file, HTTPS, Download ZIP
- Commit:** mausch #213 Public Cursor constructor (latest commit f8fd4d6 on Sep 29, 2015)

Clone
Add
Create Repository

SourceTree



Clone

SourceTree

File Edit View Repository Actions Tools Help

Clone / New Commit Checkout Discard Stash Add Remove Add/Remove Fetch Pull Push Branch Merge Tag Git Flow Terminal Settings

SolrNet

All Branches Show Remote Branches Ancestor Order Jump to:

Graph	Description	Date	Author	Commit
master	Merge pull request #226 from xavermorera/master	19 Jan 2016 4:29	Mauricio Scheffer	6c2ac62
	Include explanation on Facet Limits in Facets.md and update link to CWiki	18 Jan 2016 22:34	xmorera <xavier@f...	8b8ef6b
	Merge branch 'master' of https://github.com/mausch/SolrNet	18 Jan 2016 16:52	xmorera <xavier@f...	78e929b
#213 Public Cursor constructor		29 Sep 2015 19:38	mausch <mauricic...	f8fd4d6
0.5.0a2	Bump version to 0.5.0-alpha2	20 Aug 2015 17:28	mausch <mauricic...	8a39334
	Include original exception	20 Aug 2015 16:23	mausch <mauricic...	4758ae1
	Update README.md	20 Aug 2015 9:53	Mauricio Scheffer...	e7a35b0
	Update README.md	20 Aug 2015 9:52	Mauricio Scheffer...	e35080d
	Test https://github.com/mausch/SolrNet/issues/211	12 Aug 2015 18:54	mausch <mauricic...	00a82d8
	Fix PostSolrConnection -> SolPostConnection	9 Aug 2015 16:31	Mauricio Scheffer...	57f77b4
	Merge pull request #206 from Henrik80/master	16 Jul 2015 6:07	Mauricio Scheffer...	1ee89a4
	Updated unit test to test for zero results stats	16 Jul 2015 5:41	Henrik Gedionsen	67e9b6c

Sorted by checked / uncheck Search

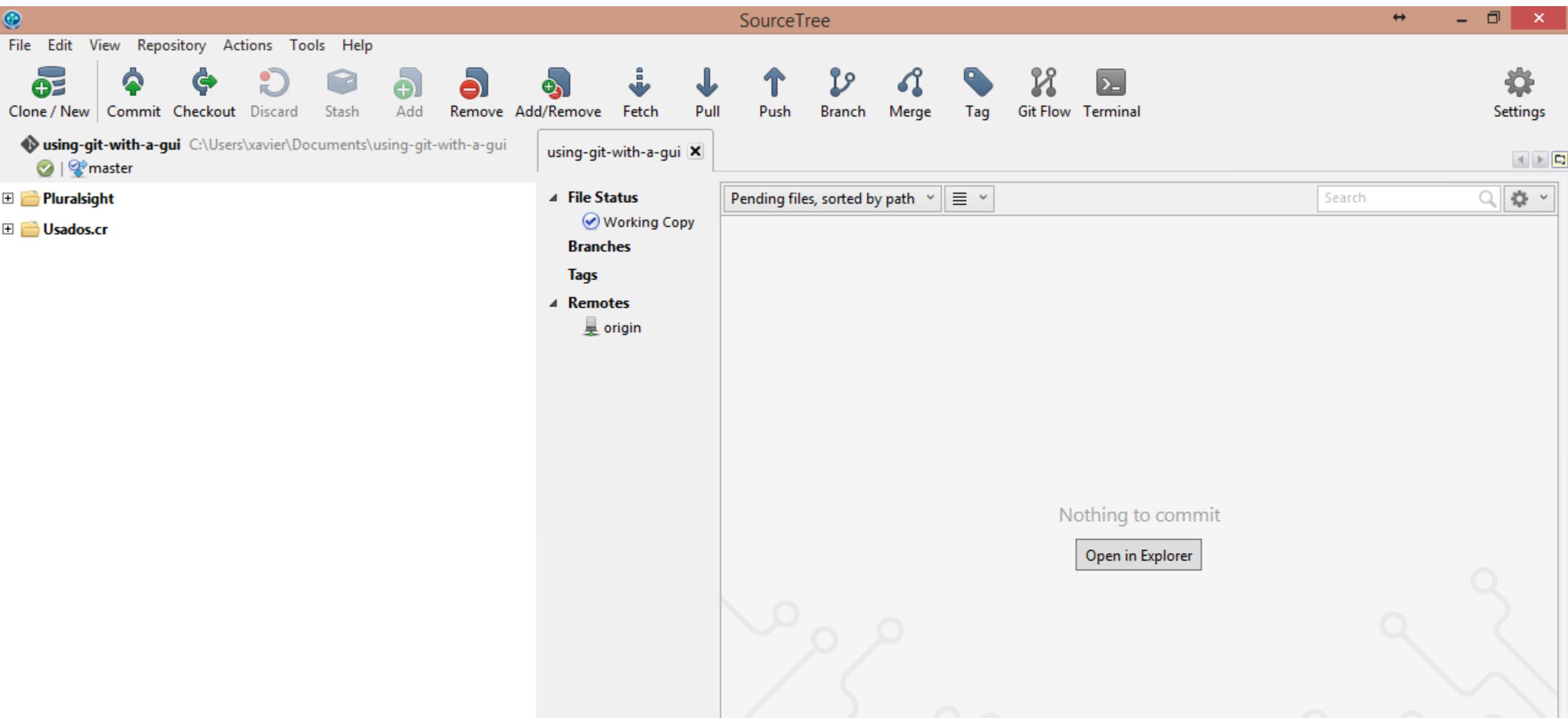
Commit: 6c2ac622a23cbc55c192ca087d9a3a3de3e487e3 [6c2ac62]
Parents: f8fd4d6062, 8b8ef6b424
Author: Mauricio Scheffer <mauricoscheffer@gmail.com>
Date: Tuesday, January 19, 2016 4:29:39 AM
Labels: HEAD, origin/master, origin/HEAD, master

Merge pull request #226 from xavermorera/master
Include explanation on Facet Limits in Facets.md and update link to CWiki

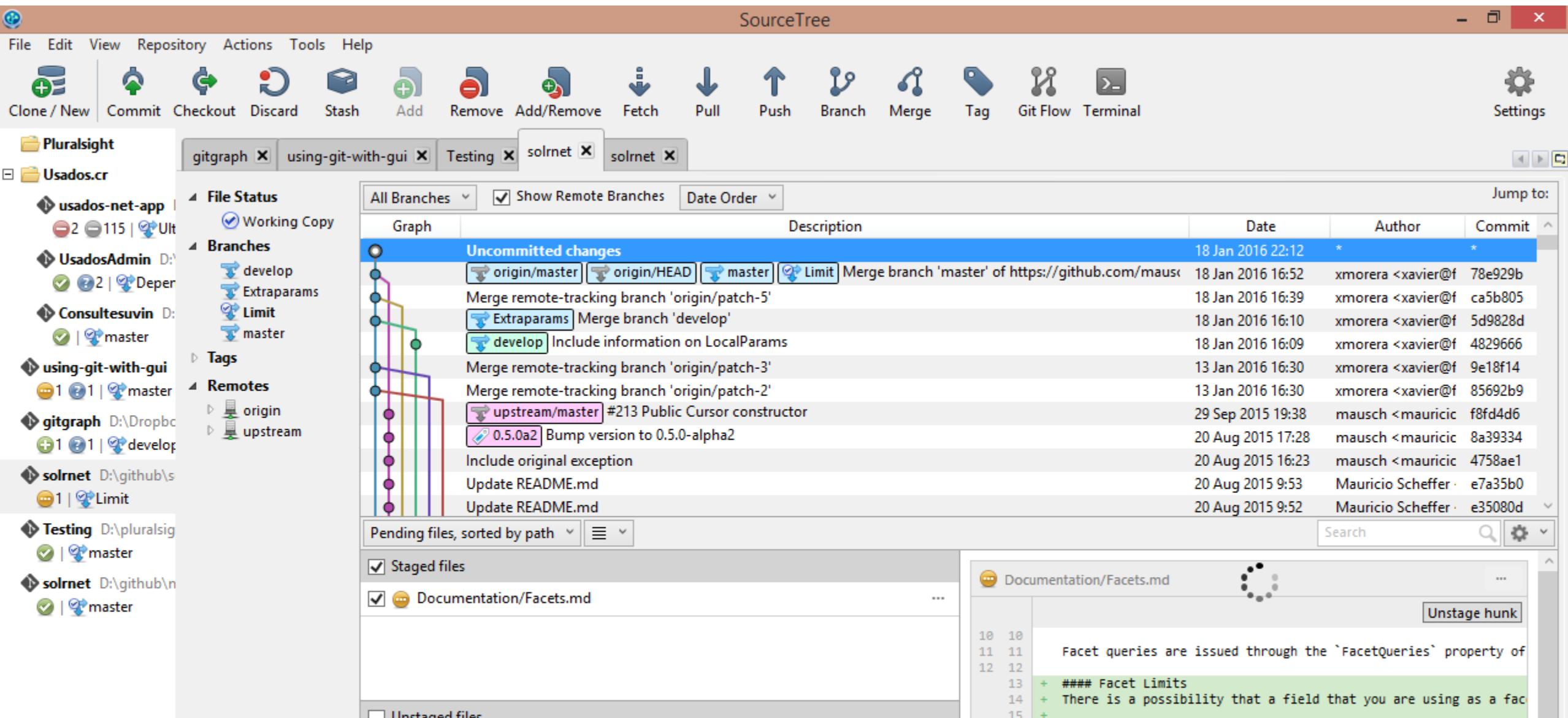
Documentation/Facets.md

Faceting
- SolrNet supports [faceted searching](http://wiki.apache.org/solr/SolrFacetingOverview).
+ SolrNet supports [faceted searching](https://cwiki.apache.org/confluence/display/solr/Faceti...
There are basically three kinds of facet queries:

Cloning: BitBucket with SourceTree

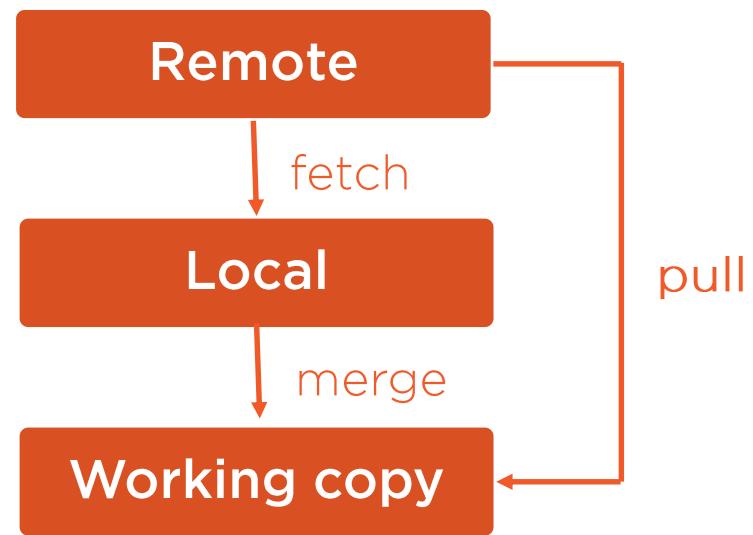


Organizing Your Workspace

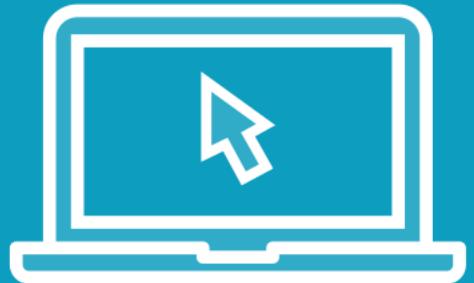


Staying Up To Date

Fetch	Pull
Get remote changes	Fetch + Merge
Into local repository	Changes into working copy
Does not affect your code	Your local branches will be updated
No merge takes place	
Let's you inspect before merging	



Demo

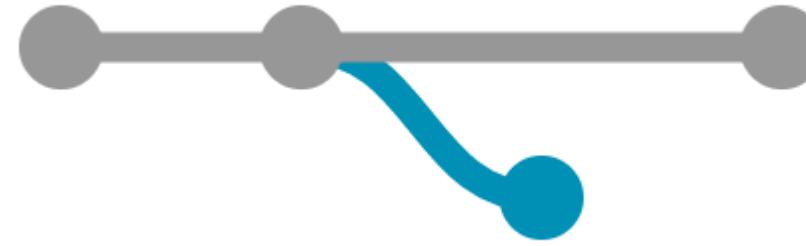


Getting the Code



Development
Line of Work

Understanding Branches



Branching

Git Branches Are
Different

Part of Daily
Workflow

Independent Line
of Development

Change Context

Create, List,
Checkout Delete &
Rename

And Then Merge



Branches

Create a New Branch



Pick an Existing Branch



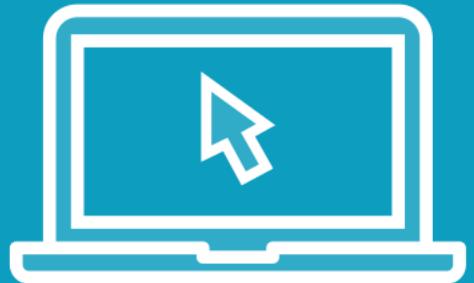
Where Can I Branch

The screenshot shows the SourceTree application interface. The menu bar includes File, Edit, View, Repository, Actions, Tools, and Help. The toolbar contains icons for Clone / New, Commit, Checkout, Discard, Stash, Add, Remove, Add/Remove, Fetch, Pull, Push, Branch, Merge, Tag, Git Flow, and Terminal. A settings gear icon is also present. A sidebar titled "mechanics" is visible. The main window displays a commit history table with columns for Graph, Description, Date, Author, and Commit. The commits listed are:

Graph	Description	Date	Author	Commit
master	Include multiple new files	21 Jan 2016 22:18	xmorera <xavier@f	126911c
	Another change (+1 squashed commits)	19 Jan 2016 18:12	xmorera <xavier@f	218ea5a
	Include the last change that is supposed to be the first change	19 Jan 2016 15:41	xmorera <xavier@f	ffabdbd
	Include ipsum text	19 Jan 2016 15:30	xmorera <xavier@f	c9596ee

At the bottom left, commit details for the selected commit (126911c) are shown: Commit: 126911cd77826841271c3980a5485cfa8d35db66 [126911c], Parents: 218ea5a182, Author: xmorera <xavier@familiamorera.com>, Date: Thursday, January 21, 2016 10:18:59 PM, Labels: HEAD, master. The commit message is "Include multiple new files". A note at the bottom says "+ No picking of this one.txt".

Demo



Branching



I Coded
Now What?



I Coded - Now What?

Committing

Save changes (add)

Repository

Include log message



Stashing

Things got messy?

Save changes for later

Apply when needed



Discarding

Didn't work out

Fresh start

Destructive operation



The Three States of Files

Modified/Untracked

Modified: Changed

Untracked: New files

In working directory



Staged

Marked for next commit

Hunks

Taken to Staging Area



Committed

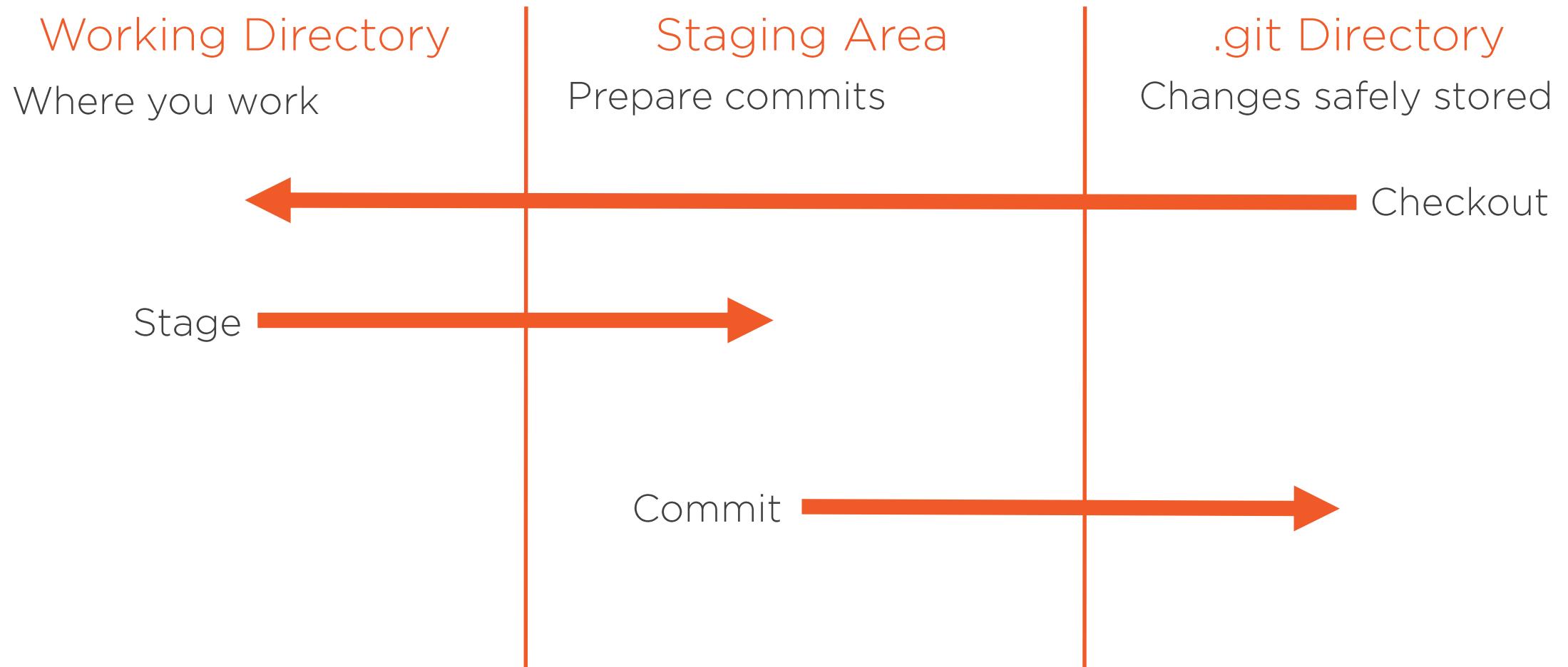
Change safely stored

Repository

(Potentially pushed)



Sections of a Git Project



Preparing the Commit: The Index

- Staging area
- Why not directly?
- Hunks: Add files or pieces of files
- Review
- Preparation area
- To be included in next commit
- Resolve conflicts



Whistle While You Work

Tools



Code



Efficiently



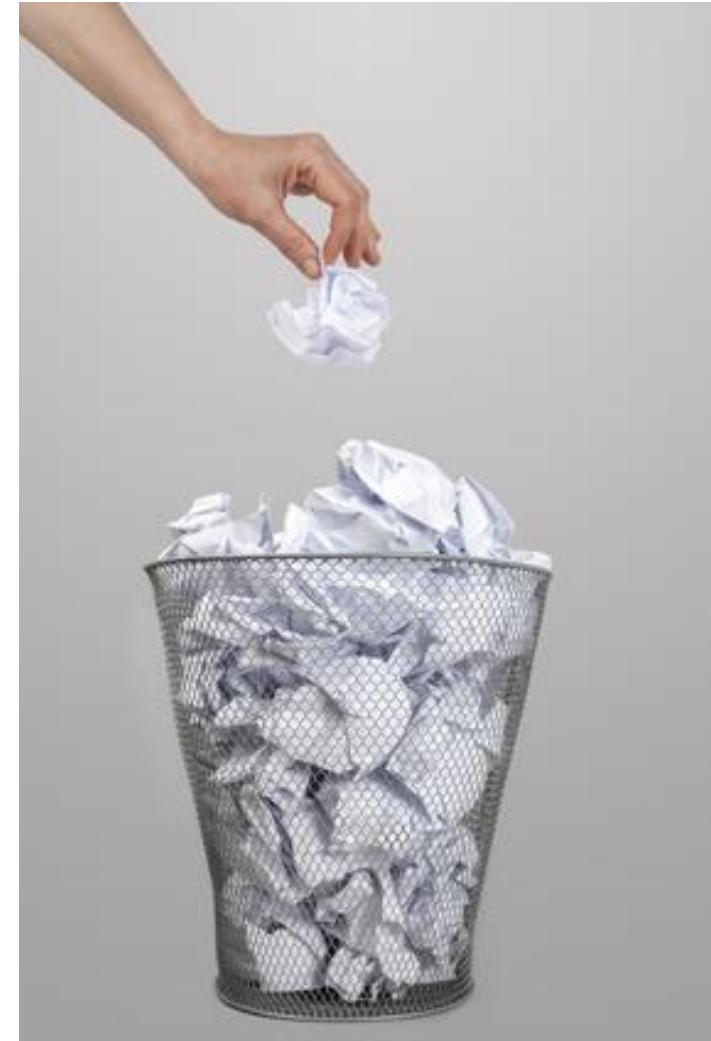
Discarding Changes

Mistakes happen

Discard changes since last commit

Careful when using it

It is a destructive operation



Discarding changes

SourceTree

File Edit View Repository Actions Tools Help

Clone / New Commit Checkout Discard Stash Add Remove Add/Remove Fetch Pull Push Branch Merge Tag Git Flow Terminal Settings

mechanics X

All Branches Show Remote Branches Date Order Jump to:

Graph	Description	Date	Author	Commit
master	Include a change to cherry pick	19 Jan 2016 21:57	xmorera <xavier@f	b007625
From_Cherry_Pick	One commit after the branch for cherry picking	19 Jan 2016 21:55	xmorera <xavier@f	06295c1
master	From_Cherry_Pick This one should not be cherry picked	19 Jan 2016 21:51	xmorera <xavier@f	0347e4e
	Include a change to cherry pick	19 Jan 2016 21:50	xmorera <xavier@f	492a8ae
	Another change (+1 squashed commits)	19 Jan 2016 18:12	xmorera <xavier@f	218ea5a
	Include the last change that is supposed to be the first change	19 Jan 2016 15:41	xmorera <xavier@f	ffabdbd
	Include lipsum text	19 Jan 2016 15:30	xmorera <xavier@f	c9596ee

Sorted by checked / unchecked Search

Commit: b00762539a2f6237217c3d53161a345bb56a8741 [b007625]
Parents: 06295c154b
Author: xmorera <xavier@familiamorera.com>
Date: Tuesday, January 19, 2016 9:50:55 PM
Commit Date: Tuesday, January 19, 2016 9:57:30 PM
Labels: HEAD, master

Include a change to cherry pick

This should be cherry picked.txt

Stash

Code mess?

But need to save changes

Without committing

Like a shelveset in TFS

Can be reapplied later



Stash

SourceTree

File Edit View Repository Actions Tools Help

Clone / New Commit Checkout Discard Stash Add Remove Add/Remove Fetch Pull Push Branch Merge Tag Git Flow Terminal Settings

mechanics X

All Branches Show Remote Branches Date Order Jump to:

Graph	Description	Date	Author	Commit
	master Include a change to cherry pick One commit after the branch for cherry picking From_Cherry_Pick This one should not be cherry picked Include a change to cherry pick Another change (+1 squashed commits) Include the last change that is supposed to be the first change Include ipsum text	19 Jan 2016 21:57 19 Jan 2016 21:55 19 Jan 2016 21:51 19 Jan 2016 21:50 19 Jan 2016 18:12 19 Jan 2016 15:41 19 Jan 2016 15:30	xmorera <xavier@f xmorera <xavier@f xmorera <xavier@f xmorera <xavier@f xmorera <xavier@f xmorera <xavier@f xmorera <xavier@f	b007625 06295c1 0347e4e 492a8ae 218ea5a ffabdbd c9596ee

Sorted by path Search

Commit: b00762539a2f6237217c3d53161a345bb56a8741 [b007625]
Parents: 06295c154b
Author: xmorera <xavier@familiamorera.com>
Date: Tuesday, January 19, 2016 9:50:55 PM
Commit Date: Tuesday, January 19, 2016 9:57:30 PM
Labels: HEAD, master

 + This should be cherry picked.txt

Include a change to cherry pick

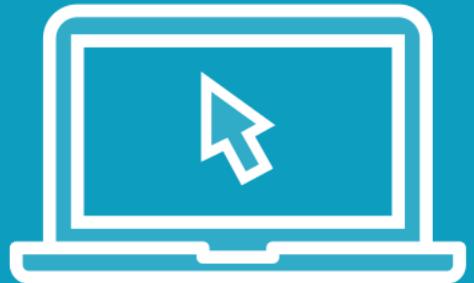
+ This should be cherry picked.txt

Reapplying a Stash

Get back that piece of code
From your Stash
Into Working Copy



Demo



Discard and Stash



Ignoring Files

May not want to commit all files

.gitignore

Exact name

Pattern

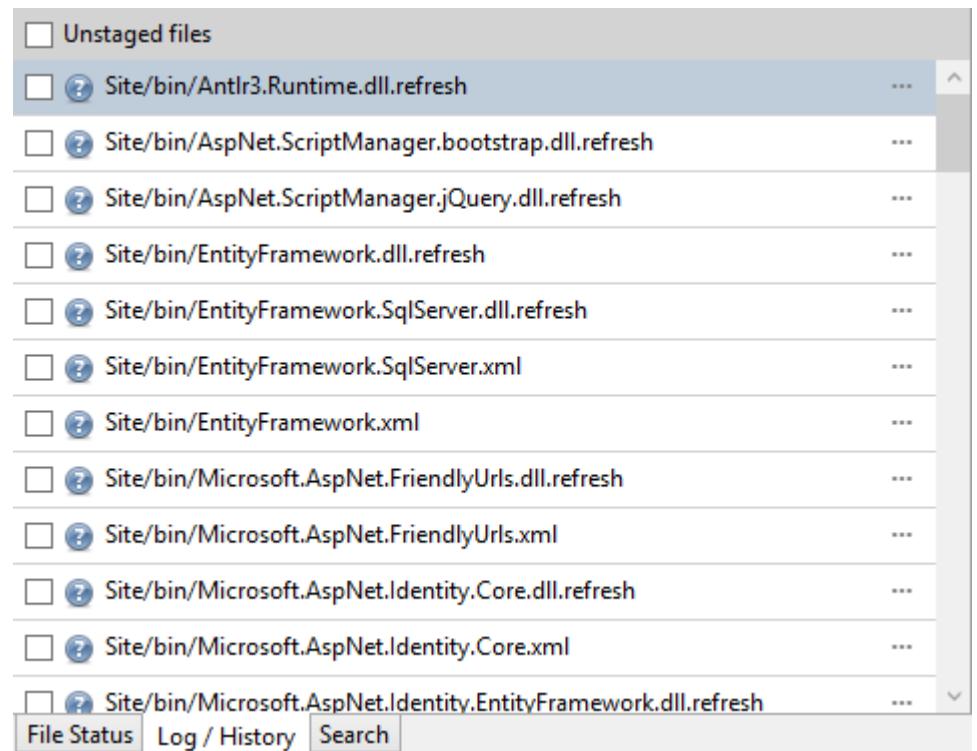
Path

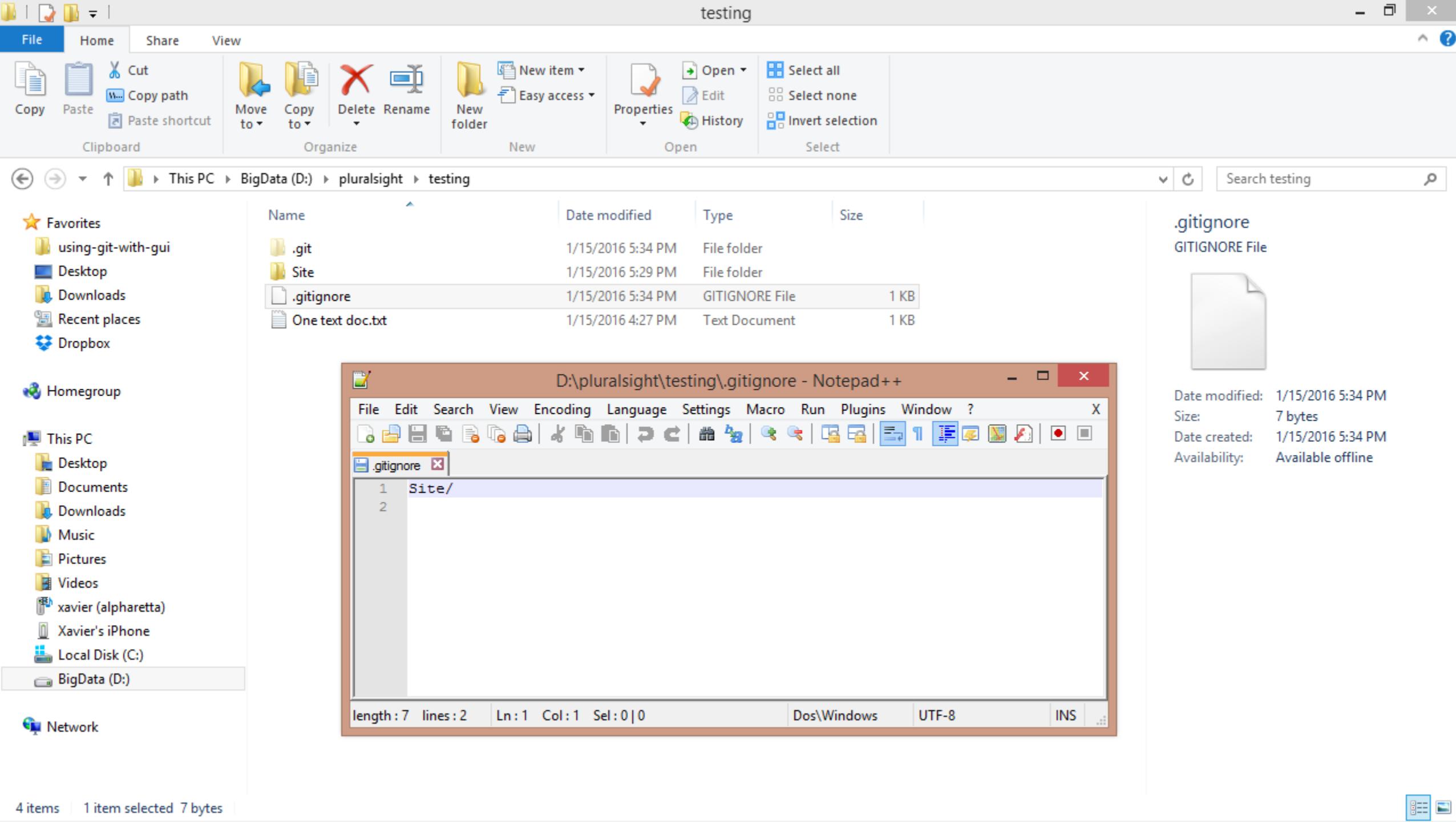
Extension

This repository

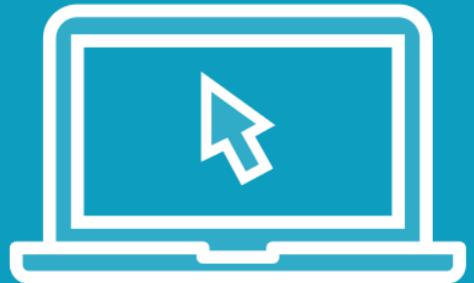
OR

All repositories





Demo



Ignoring Files



Staging & Hunks

The screenshot shows the Atlassian Bitbucket interface for managing code changes. On the left, a sidebar lists 'Pending files, sorted by path' with a dropdown menu. It shows two entries: 'Staged files' containing 'Documentation/Facets.md' and 'Unstaged files' also containing 'Documentation/Facets.md'. The 'Documentation/Facets.md' entry in the unstaged files list is highlighted with a blue background. On the right, the content of 'Documentation/Facets.md' is displayed in a code editor. The code is numbered from 1 to 157. Several hunks of code are shown with different backgrounds: red for deleted text, green for added text, and light green for a 'TODO' section. Buttons for 'Stage hunk' and 'Discard hunk' are located at the top and bottom of each hunk. The Atlassian logo is visible in the bottom right corner.

```
1 1      # Faceting
2 2
3 3      - SolrNet supports [faceted searching](http://wiki.apache.org/solr/SolrFace
4 4      + SolrNet supports [faceted searching](https://cwiki.apache.org/confluence/
5 5
6 6      There are basically three kinds of facet queries:
150 150      - connector (2)
151 151      - graphics card (2)
152 152
153 153
154 154      +
155 155      + TODO: Need to explain scenarios
156 156
157 157      Additional information to be found in:
                  http://wiki.apache.org/solr/HierarchicalFaceting#Pivot_Facets
```





gitgraph ✕ using-git-with-gui ✕ Testing ✕ solrnet ✕ solrnet ✕



File Status

Working Copy

Branches

- develop
- Extraparams
- Limit**
- master

Tags

Remotes

- origin
- upstream

All Branches Show Remote Branches Date Order Jump to:

Description	Date	Author	Commit
Uncommitted changes	18 Jan 2016 22:26	*	*
origin/master origin/HEAD master Limit Merge branch 'master' of https://github.com/mausch/SolrNet	18 Jan 2016 16:52	xmorera <xavier@f	78e929b
Merge remote-tracking branch 'origin/patch-5'	18 Jan 2016 16:39	xmorera <xavier@f	ca5b805
Extraparams Merge branch 'develop'	18 Jan 2016 16:10	xmorera <xavier@f	5d9828d
develop Include information on LocalParams	18 Jan 2016 16:09	xmorera <xavier@f	4829666
Merge remote-tracking branch 'origin/patch-3'	13 Jan 2016 16:30	xmorera <xavier@f	9e18f14
Merge remote-tracking branch 'origin/patch-2'	13 Jan 2016 16:30	xmorera <xavier@f	85692b9
upstream/master #213 Public Cursor constructor	29 Sep 2015 19:38	mausch <mauricic	f8fd4d6
0.5.0a2 Bump version to 0.5.0-alpha2	20 Aug 2015 17:28	mausch <mauricic	8a39334

Pending files, sorted by path Staged files Documentation/Facets.md Unstaged files Documentation/Facets.md

Search

Documentation/Facets.md

```

# Faceting
- SolrNet supports [faceted searching](http://wiki.apache.org/solr/SolrFacetPanel)
+ SolrNet supports [faceted searching](https://cwiki.apache.org/confluence/)

There are basically three kinds of facet queries:
- connector (2)
- graphics card (2)
```
+ TODO: Need to explain scenarios

Additional information to be found in:
http://wiki.apache.org/solr/HierarchicalFaceting#Pivot_Facets

```

Stage hunk Discard hunk

# Why Are Hunks Amazing?

The screenshot shows a diff tool interface with two panes. The left pane displays the 'Staged files' section, which contains a single entry: 'Documentation/Facets.md'. The right pane displays the 'Documentation/Facets.md' file content with line numbers. The content includes sections on faceting and connector scenarios, along with a TODO note and a reference link.

**Staged files:**

- Documentation/Facets.md

**Unstaged files:**

- Documentation/Facets.md

**Documentation/Facets.md**

```
1 1 # Faceting
2 2
3 3 - SolrNet supports [faceted searching](http://wiki.apache.org/solr/SolrFacetin
4 4 + SolrNet supports [faceted searching](https://cwiki.apache.org/confluence/dis
5 5 There are basically three kinds of facet queries:
6 6
150 150 - connector (2)
151 151 - graphics card (2)
152 152 ..
153 153 +
154 154 + TODO: Need to explain scenarios
153 155
154 156
155 157 Additional information to be found in:
 http://wiki.apache.org/solr/HierarchicalFaceting#Pivot_Facets
```

**Stage hunk** **Discard hunk**





gitgraph ✘ using-git-with-gui ✘ Testing ✘ solnet ✘ solnet ✘



## File Status

 Working Copy

## Branches

- develop
- Extraparams
- Limit
- master

## Tags

## Remotes

- origin
  - 0.3.x
  - 0.4.0b3
  - cursormark
  - DataImportHan
  - document-mod
  - ExtractingRequ
  - HEAD
  - javabin
  - linq
  - master
  - mithandler
  - patch-1
  - patch-2
  - patch-3
  - patch-5
  - pivot-fields
  - solcoreadmin-i
  - xavermorera-dc
- upstream

Pending files, sorted by path

 Staged files Documentation/Facets.md Unstaged files Documentation/Facets.md

Search



## Documentation/Facets.md

1 1  
2 2  
3 3  
4 4  
5 5  
6 6

# Faceting

- SolrNet supports [faceted searching](<http://wiki.apache.org/solr/solrFaceti>)

+ SolrNet supports [faceted searching](<https://cwiki.apache.org/confluence/di>)

There are basically three kinds of facet queries:

10 10  
11 11  
12 12

Facet queries are issued through the `FacetQueries` property of `QueryOptions`.

+ ##### Facet Limits

+ There is a possibility that a field that you are using as a facet may have

+ Simply set Limit to the number of values that you want Solr to return for t

+ ````c#

+ var fq = new SolrFacetFieldQuery("pepe") {Limit = 5};

+ Or on the other hand your project requires all facets to be returned and si



xmorera &lt;xavier@familiamorera.com&gt;



Commit options...

Include explanation on Facet Limits in Facets.md and update link to CWiki

 Push changes immediately to -

Commit

Cancel

File Status Log / History Search

1 | Limit

Atlassian



gitgraph ✘ using-git-with-gui ✘ Testing ✘ solnet ✘ solnet ✘



**File Status**  Working Copy

**Branches**

- develop
- Extraparams
- Limit**
- master

**Tags**

**Remotes**

- origin**
  - 0.3.x
  - 0.4.0b3
  - cursormark
  - DataimportHan
  - document-mod
  - ExtractingReq
  - HEAD
  - javabin
  - linq
  - master
  - mithandler
  - patch-1
  - patch-2
  - patch-3
  - patch-5
  - pivot-fields
  - solcoreadmin-i
  - xaviermorera-dc
- upstream

All Branches  Show Remote Branches Date Order

| Graph                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Date                                                                                                                                            | Author                                                                                                                                                                      | Commit                                                         |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <b>Uncommitted changes</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 18 Jan 2016 22:35                                                                                                                               | *                                                                                                                                                                           | *                                                              |
|                            | <input checked="" type="checkbox"/> <b>Limit</b> Include explanation on Facet Limits in Facets.md and update link to CWiki<br><input checked="" type="checkbox"/> <b>origin/master</b> <input checked="" type="checkbox"/> <b>origin/HEAD</b> <input checked="" type="checkbox"/> <b>master</b> Merge branch 'master' of https://github.com/mausch/SolrNet<br><input checked="" type="checkbox"/> Merge remote-tracking branch 'origin/patch-5'<br><input checked="" type="checkbox"/> <b>Extraparams</b> Merge branch 'develop'<br><input checked="" type="checkbox"/> <b>develop</b> Include information on LocalParams<br><input checked="" type="checkbox"/> Merge remote-tracking branch 'origin/patch-3' | 18 Jan 2016 22:34<br>18 Jan 2016 16:52<br>18 Jan 2016 16:39<br>18 Jan 2016 16:10<br>18 Jan 2016 16:09<br>18 Jan 2016 16:09<br>13 Jan 2016 16:30 | xmorera <xavier@f...><br>xmorera <xavier@f...><br>xmorera <xavier@f...><br>xmorera <xavier@f...><br>xmorera <xavier@f...><br>xmorera <xavier@f...><br>xmorera <xavier@f...> | 8b8ef6b<br>78e929b<br>ca5b805<br>5d9828d<br>4829666<br>9e18f14 |

Sorted by path

**Commit:** 8b8ef6b4242ae7eddcd37b780cfbec40849d7dd [8b8ef6b]  
**Parents:** 78e929b446  
**Author:** xmorera <xavier@familiamorera.com>  
**Date:** Monday, January 18, 2016 10:34:55 PM  
**Labels:** HEAD, Limit

Include explanation on Facet Limits in Facets.md and update link to CWiki

**Documentation/Facets.md**

```

1 1
2 2
3 3
4 4
5 5
6 6
7 7
8 8
9 9
10 10
11 11
12 12
13 13
14 14
15 15
16 16
17 17
18 18
19 19
20 20

```

# Faceting

- SolrNet supports [faceted searching](<http://wiki.apache.org/solr/SolrFacetingOverview>).  
+ SolrNet supports [faceted searching](<https://cwiki.apache.org/confluence/display/solr/Faceting>)

There are basically three kinds of facet queries:

Facet queries are issued through the 'FacetQueries' property of 'QueryOptions'. Then the 'Qu...

#### Facet Limits

+ There is a possibility that a field that you are using as a facet may have too many values and you want to limit the number of results returned.

+ Simply set Limit to the number of values that you want Solr to return for the specific facet.

```

```c#
var fq = new SolrFacetFieldQuery("pepe") {Limit = 5};
```

```

File Status Log / History Search

1 | Limit Atlassian



gitgraph ✘ using-git-with-gui ✘ Testing ✘ solrnet ✘ solrnet ✘



**File Status**

Working Copy

**Branches**

- develop
- Extraparams
- Limit**
- master

**Tags**

**Remotes**

- origin
  - 0.3.x
  - 0.4.0b3
  - cursormark
  - DataimportHan
  - document-mod
  - ExtractingRequ
  - HEAD
  - javabin
  - linq
  - master
  - mithandler
  - patch-1
  - patch-2
  - patch-3
  - patch-5
  - pivot-fields
  - solcoreadmin-i
  - xavermorera-dc
- upstream

All Branches  Show Remote Branches Date Order

| Graph                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Date              | Author            | Commit  |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------|
| <b>Uncommitted changes</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                   |         |
|                            | <input checked="" type="checkbox"/> Limit   Include explanation on Facet Limits in Facets.md and update link to CWiki<br><input checked="" type="checkbox"/> origin/master   <input checked="" type="checkbox"/> origin/HEAD   <input checked="" type="checkbox"/> master   Merge branch 'master' of https://github.com/mausch/SolrNet<br><input checked="" type="checkbox"/> Extraparams   Merge branch 'develop'<br><input checked="" type="checkbox"/> develop   Include information on LocalParams<br><input checked="" type="checkbox"/> develop   Merge remote-tracking branch 'origin/patch-3' | 18 Jan 2016 22:35 | *                 | *       |
|                            | Merge remote-tracking branch 'origin/patch-5'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 18 Jan 2016 16:52 | xmorera <xavier@f | 78e929b |
|                            | Merge remote-tracking branch 'origin/patch-5'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 18 Jan 2016 16:39 | xmorera <xavier@f | ca5b805 |
|                            | Merge branch 'develop'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 18 Jan 2016 16:10 | xmorera <xavier@f | 5d9828d |
|                            | Merge branch 'develop'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 18 Jan 2016 16:09 | xmorera <xavier@f | 4829666 |
|                            | Merge remote-tracking branch 'origin/patch-3'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 13 Jan 2016 16:30 | xmorera <xavier@f | 9e18f14 |

Pending files, sorted by path

Staged files

Unstaged files

Documentation/Facets.md

```

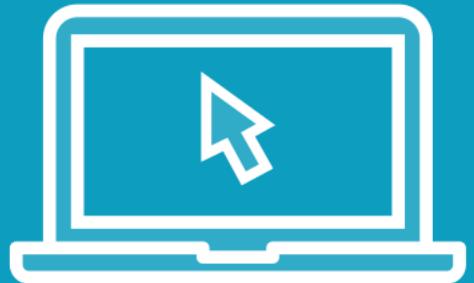
150 150 - connector (2)
151 151 - graphics card (2)
152 152 ...
153 + ...
154 + ...
155 ...
156 ...
157 ...

```

+ TODO: Need to explain scenarios

Additional information to be found in:  
[http://wiki.apache.org/solr/HierarchicalFaceting#Pivot\\_Facets](http://wiki.apache.org/solr/HierarchicalFaceting#Pivot_Facets)

Demo



Staging and Hunks



# Commit Messages

Good commit  
messages matter

Context

Style | Content | Metadata

WHAT changed

```
1 src/com.greetings/module-info.java View
...
... @@ -1,3 +1,2 @@
1 module com.greetings {
2 - requires org.astro;
3 }
```

WHY

## Remove requires statement and fail at compile time

This step demonstrates what happens when the `_requires_` clause is omitted from the `'com.greetings'` module declaration. Upon trying to build the `'com.greetings'` module, compilation should fail, because `'javac'` will no longer be able to resolve the `'org.astro'` package:



# Seven rules of a great Git commit message

1. Separate subject from body with a blank line
2. Limit the subject line to 50 characters
3. Capitalize the subject line
4. Do not end the subject line with a period
5. Use the imperative mood in the subject line
6. Wrap the body at 72 characters
7. Use the body to explain what and why vs. how



# A Great Commit Message

If applied, this commit will

< 50

**Remove requires statement and fail at compile time < 72**

This step demonstrates what happens when the `_requires_` clause is omitted from the `'com.greetings'` module declaration. Upon trying to build the `'com.greetings'` module, compilation should fail, because `'javac'` will no longer be able to resolve the `'org.astro'` package:

```
$./step.sh
...
src/com/greetings/com/greetings/Main.java:6: error:
 package org.astro does not exist
 Object name = org.astro.World.name();
 ^
```

See <http://openjdk.java.net/projects/jigsaw/quick-start#missing>

[Browse files](#)

master ↗ step7 ... step4



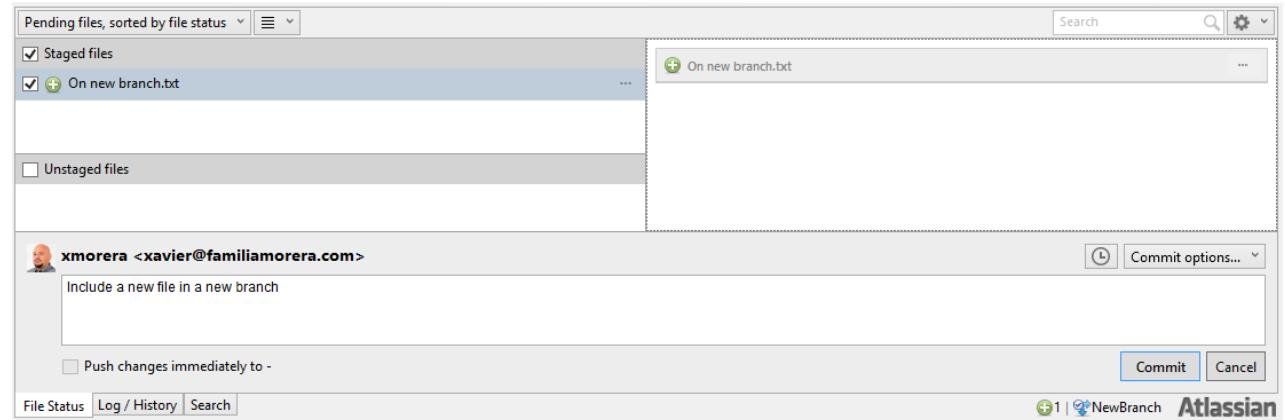
cbeams committed on Oct 8, 2015

1 parent d3f150d commit fd7e42ae9f93e67c31d41dbef5b1f17961c8cd92



Save the staged snapshot to the project repository

# Commit



> git commit



# Commit

SourceTree

File Edit View Repository Actions Tools Help

Clone / New Commit Checkout Discard Stash Add Remove Add/Remove Fetch Pull Push Branch Merge Tag Git Flow Terminal Settings

using-git-with-a-gui-sample X

Pending files, sorted by checked / unchecked ⚡ Search

File Status

- Working Copy

Branches

- master ↴

Tags

Remotes

- origin
- HEAD
- master

Staged files

- filecreatedinbitbucket

Unstaged files

filecreatedinbitbucket

0 - This is a sample file that will be pulled.  
1 \ No newline at end of file  
2 + This is a sample file that will be pulled. And you can commit now.  
3 \ No newline at end of file

Unstage hunk

xmorera <xavier@familiamorera.com>

Commit options... ▾

- Amend latest commit
- Bypass commit hooks
- Sign off
- Create Pull Request

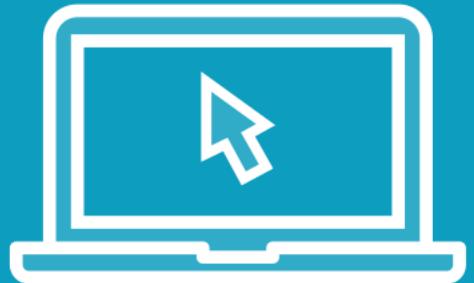
Push changes immediately to origin/master

Commit Cancel

File Status Log / History Search

1 master | 1 Atlassian

Demo

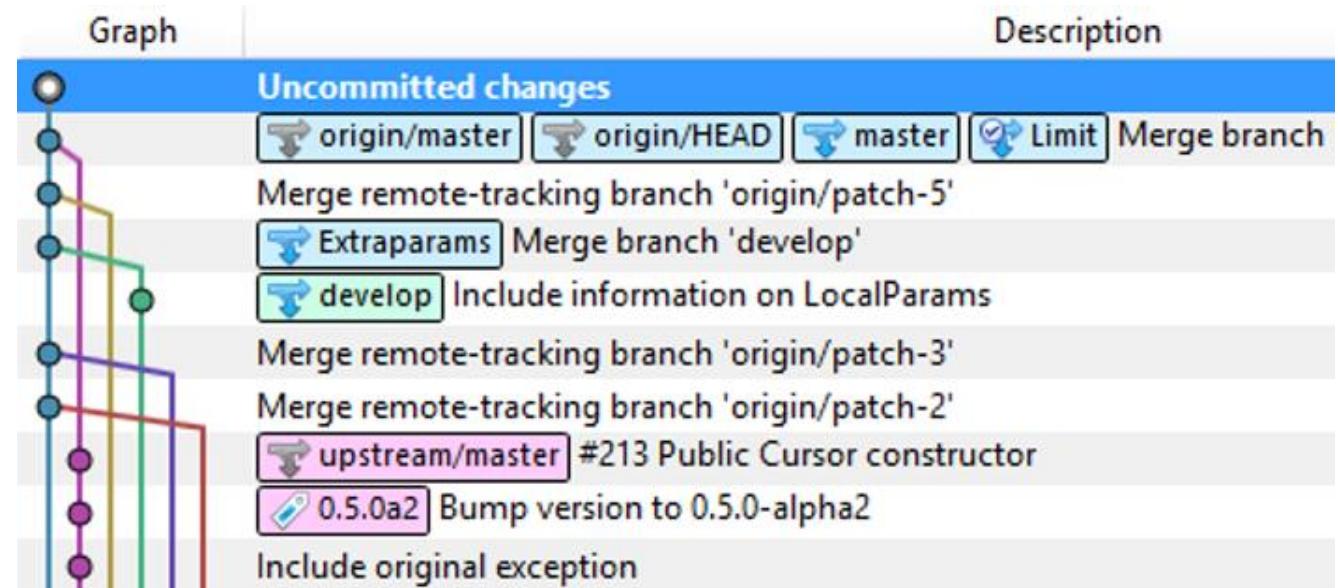


Commit



# Merging

Join two or more  
Development branches  
Part of the workflow  
Work, commit, and...  
Merge a branch  
(Or many)





# Pull First

Your responsibility to avoid conflicts

Pull first

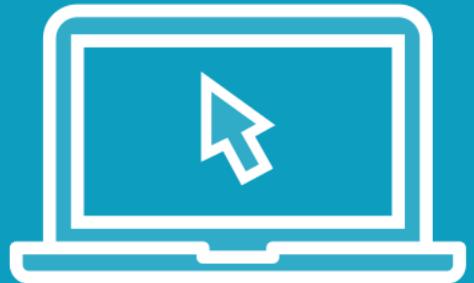
- Fetch and Merge into your branch

And then merge

- Pull Request



Demo



Merging



# Push



Pushed to remote repository

Deployed, reviewed, integrated, ...

Upload: Commits, branches, tags, ...

Hooks

Avoid conflicts

Pull Request





gitgraph ✘ using-git-with-gui ✘ Testing ✘ solnet ✘ solnet ✘



**File Status**

Working Copy

**Branches**

- develop
- Extraparams
- Limit
- master** 1 ahead

**Tags**

**Remotes**

- origin**
- 0.3.x
- 0.4.0b3
- cursormark
- DataimportHan
- document-mod
- ExtractingRequ
- HEAD
- javabin
- linq
- master
- mithandler
- patch-1
- patch-2
- patch-3
- patch-5
- pivot-fields
- solcoreadmin-i
- xaviermorera-d

Sorted by path

Commit: 8b8ef6b4242ae7eddcd  
Parents: 78e929b446  
Author: xmorera <xavier@familia...>  
Date: Monday, January 18, 2016  
Labels: HEAD, master

Include explanation on Facet Limit

Documentation/Facets.md

Select All

Push all tags

All Branches  Show Remote Branches Date Order

**Graph**

Push: solnet

Push to repository: origin https://github.com/xaviermorera/SolrNet.git

**Branches to push**

| Push?                               | Local branch | Remote branch | Track?                   |
|-------------------------------------|--------------|---------------|--------------------------|
| <input type="checkbox"/>            | Extraparams  |               | <input type="checkbox"/> |
| <input type="checkbox"/>            | Limit        |               | <input type="checkbox"/> |
| <input type="checkbox"/>            | develop      |               | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | master       | master        | <input type="checkbox"/> |

Push all tags

**Log**

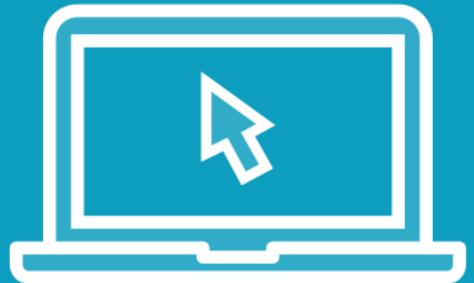
| Date              | Author                      | Commit  |
|-------------------|-----------------------------|---------|
| 18 Jan 2016 22:34 | xmorera <xavier@familia...> | 8b8ef6b |
| 18 Jan 2016 16:52 | xmorera <xavier@familia...> | 78e929b |
| 18 Jan 2016 16:39 | xmorera <xavier@familia...> | ca5b805 |
| 18 Jan 2016 16:10 | xmorera <xavier@familia...> | 5d9828d |
| 18 Jan 2016 16:09 | xmorera <xavier@familia...> | 4829666 |
| 13 Jan 2016 16:30 | xmorera <xavier@familia...> | 9e18f14 |
| 13 Jan 2016 16:30 | xmorera <xavier@familia...> | 85692b9 |

Search ... Reverse hunk

... Reverse hunk

//wiki.apache.org/solr/SolrFacetingOverview).  
s://cwiki.apache.org/confluence/display/solr/Faceti...  
queries:  
etQueries' property of 'QueryOptions'. Then the 'Qu...  
you are using as a facet may have too many values a...  
that you want Solr to return for the specific faceti...  
{Limit = 5};

Demo



Push



# Merge Conflicts

Changes in same area

In different branches

In the same line or lines

Or edit a file that is deleted elsewhere

Merge conflict

Which one to pick?

Resolve

This is a conflict



# Conflicts

## Mine or Theirs

- Pick one of the changes
- One change is latest
- Careful not breaking other branch

## Resolve Manually

- Manual resolution required
- Pieces of both changes may be required
- Make sure both branch changes work
- Leverage external tool





gitgraph X using-git-with-gui X solrnet X



|                               |  | All Branches      | <input checked="" type="checkbox"/> Show Remote Branches        | Date Order | Jump to:            |                   |                    |         |
|-------------------------------|--|-------------------|-----------------------------------------------------------------|------------|---------------------|-------------------|--------------------|---------|
|                               |  | Graph             | Description                                                     |            |                     | Date              | Author             | Commit  |
| <b>Uncommitted changes</b>    |  |                   |                                                                 |            |                     |                   |                    |         |
|                               |  | master [20 ahead] | Merge remote-tracking branch 'origin/patch-3'                   |            |                     | 13 Jan 2016 16:30 | *                  | *       |
|                               |  |                   | Merge remote-tracking branch 'origin/patch-2'                   |            |                     | 13 Jan 2016 16:30 | xmorera <xavier@f  | 9e18f14 |
|                               |  | origin/patch-5    | Additional parameters for highlighting                          |            |                     | 19 May 2015 7:55  | xaviermorera <xavi | ccba187 |
|                               |  |                   | Merge pull request #193 from xaviermorera/patch-5               |            |                     | 5 May 2015 18:09  | Mauricio Scheffer  | be21bac |
|                               |  |                   | Included ExtraParams and change URL to CWiki                    |            |                     | 5 May 2015 15:34  | xaviermorera <xavi | 2a45e36 |
|                               |  |                   | Merge pull request #192 from xaviermorera/patch-4               |            |                     | 5 May 2015 11:13  | Mauricio Scheffer  | b733d1d |
|                               |  |                   | Update Highlighting documentation                               |            |                     | 5 May 2015 11:11  | xaviermorera <xavi | cc6ae59 |
|                               |  | origin/master     | origin/HEAD                                                     | develop    | Update Highlighting | 5 May 2015 11:07  | xaviermorera <xavi | df9fdcc |
|                               |  | origin/patch-3    | Update Highlighting documentation                               |            |                     | 5 May 2015 11:06  | xaviermorera <xavi | 53ea81e |
|                               |  | origin/patch-2    | Update Highlighting documentation                               |            |                     | 5 May 2015 11:04  | xaviermorera <xavi | 6d4243f |
|                               |  | 0.5.0a1           | Fix Nuget package URLs                                          |            |                     | 4 May 2015 6:09   | mausch <mauricic   | 0c425c0 |
|                               |  |                   | Nuget package version and assembly version are different things |            |                     | 3 May 2015 18:16  | mausch <mauricic   | 226483d |
| Pending files, sorted by path |  | ☰                 | Search                                                          |            |                     |                   |                    |         |

 Staged files Documentation/Highlighting.md Documentation/Querying.md Unstaged files

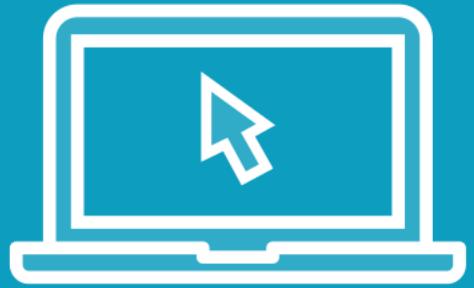
## Documentation/Highlighting.md

```

22 22 features: NoiseGuard, SilentSeek technology, Fluid Dynamic Bearing (F
23 23 ``
24 24 ``
25 25 + If you need to specify additional parameters, for example the snippet size for
26 26 ```.
27 27 + Dictionary<string, string> extraParams = new Dictionary<string, string>();
28 28 + extraParams.Add("f.features.hl fragsize", "250");
29 29 ```.
30 30 +
31 31 The results object will include:
32 32 - A Highlights property which is an IDictionary<string, SolrNet.Impl.Highlight>
33 33 - The string corresponds to the document uniquekey

```

Demo



Conflicts



Or as I call it  
Here's My Code  
Please Take It

## Pull Request





Pluralsight

Usados.cr

usados-net-app  
-2 -115 | UIUsadosAdmin D:  
✓ ? 2 | DependenciesConsultesuvin D:  
✓ | masterusing-git-with-gui  
✓ ? 1 | mastergitgraph D:\Dropb...  
+1 ? 1 | developsolnet D:\github\s...  
✓ | masterTesting D:\pluralsig...  
✓ | mastersolnet D:\github\s...  
✓ | master

gitgraph x using-git-with-gui x Testing x solnet x solnet x

## File Status

 Working Copy

## Branches

develop

Extraparams

master

## Tags

## Remotes

origin

upstream

All Branches

 Show Remote Branches

Date Order

Jump to:

| Graph | Description                                                              | Date              | Author               | Commit  |
|-------|--------------------------------------------------------------------------|-------------------|----------------------|---------|
|       | origin/master Merge branch 'master' of https://github.com/mausch/SolrNet | 18 Jan 2016 16:52 | xmorera <xavier@f... | 78e929b |
|       | Merge remote-tracking branch 'origin/patch-5'                            | 18 Jan 2016 16:39 | xmorera <xavier@f... | ca5b805 |
|       | Merge remote-tracking branch 'origin/patch-5'                            | 18 Jan 2016 16:10 | xmorera <xavier@f... | 5d9828d |
|       | Merge branch 'develop'                                                   | 18 Jan 2016 16:09 | xmorera <xavier@f... | 4829666 |
|       | Extraparams Include information on LocalParams                           | 18 Jan 2016 16:09 | xmorera <xavier@f... | 4829666 |
|       | Merge remote-tracking branch 'origin/patch-3'                            | 13 Jan 2016 16:30 | xmorera <xavier@f... | 9e18f14 |
|       | Merge remote-tracking branch 'origin/patch-2'                            | 13 Jan 2016 16:30 | xmorera <xavier@f... | 85692b9 |
|       | upstream/master #213 Public Cursor constructor                           | 29 Sep 2015 19:38 | mausch <mauric...    | f8fd4d6 |
|       | 0.5.0a2 Bump version to 0.5.0-alpha2                                     | 20 Aug 2015 17:28 | mausch <mauric...    | 8a39334 |
|       | Include original exception                                               | 20 Aug 2015 16:23 | mausch <mauric...    | 4758ae1 |
|       | Update README.md                                                         | 20 Aug 2015 9:53  | Mauricio Scheffer... | e7a35b0 |
|       | Update README.md                                                         | 20 Aug 2015 9:52  | Mauricio Scheffer... | e35080d |
|       | Test https://github.com/mausch/SolrNet/issues/211                        | 12 Aug 2015 18:54 | mausch <mauric...    | 00a82d8 |

Sorted by path

Commit: 78e929b44660f539c09731401c6b1bf6a3b07ceb [78e929b]

Parents: ca5b80532f, f8fd4d6062

Author: xmorera &lt;xavier@familiamorera.com&gt;

Date: Monday, January 18, 2016 4:52:47 PM

Labels: HEAD, origin/master, origin/HEAD, master



Merge branch 'master' of https://github.com/mausch/SolrNet

.gitignore

AutofacContrib.SolrNet/Properties/AssemblyInfo.cs

Castle.Facilities.SolrNetIntegration/Properties/AssemblyInfo.cs

Documentation/FAQ.md

Documentation/Facets.md



File Status Log / History Search

Clean | master

Atlassian

# Pull Request



Method of submitting code  
To a project  
Distributed source control  
Review changes  
Collaborate and improve  
Before merge  
Accepted or rejected



GitHub, Inc. [US] <https://github.com/mausch/SolrNet/compare/master...xavermorera:master?diff=unified&name=master>

This repository Search Pull requests Issues Gist

mausch / SolrNet Unwatch 97 Unstar 482 Fork 389

Code Issues 59 Pull requests 19 Pulse Graphs

## Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also compare across forks.

base fork: **mausch/SolrNet** base: **master** ... head fork: **xavermorera/SolrNet** compare: **master**

✓ Able to merge. These branches can be automatically merged.

**Create pull request** Discuss and review the changes in this comparison with others.

10 commits 1 file changed 0 commit comments 2 contributors

Commits on May 05, 2015

- xavermorera Update Highlighting documentation ... 6d4243f
- xavermorera Update Highlighting documentation ... 53ea81e
- xavermorera Update Highlighting df9fdcc

Commits on Jan 13, 2016

- xavermorera Merge remote-tracking branch 'origin/patch-2' 85692b9



Showing 1 changed file with 11 additions and 1 deletion.

Unified

Split

12 Documentation/Facets.md

View

... ... @@ -1,6 +1,6 @@

1 1 # Faceting

2 2

3 -SolrNet supports [faceted searching](<http://wiki.apache.org/solr/SolrFacetingOverview>).

3 +SolrNet supports [faceted searching](<https://cwiki.apache.org/confluence/display/solr/Faceting>).

4 4

5 5 There are basically three kinds of facet queries:

6 6

7 @@ -10,6 +10,16 @@ There are basically three kinds of facet queries:

10 10

11 11 Facet queries are issued through the `FacetQueries` property of `QueryOptions`. Then the `QueryOptions` instance is passed to the server instance.

12 12

13 +#### Facet Limits  
14 +There is a possibility that a field that you are using as a facet may have too many values and thus you may want to limit how many should be displayed. For this purpose we have the `Limit` property in `SolrFacetFieldQuery`.  
15 +  
16 +Simply set Limit to the number of values that you want Solr to return for the specific facet and you are good to go.

17 +```c#

18 + var fq = new SolrFacetFieldQuery("pepe") {Limit = 5};

19 +  
20 +

21 +Or on the other hand your project requires all facets to be returned and since Solr's default value for `Limit` is 100 then you may need to set to a higher number or even an unlimited value which is -1. Word of advise is that for performance considerations you set only to what you require and not unlimited.  
22 +

13 23 ### Querying by field

14 24 Querying by field is handled by the `SolrFacetFieldQuery` class. Results are available through the `FacetFields` property.

15 25

16

Comparing mausch:master X Xavier - X

GitHub, Inc. [US] https://github.com/mausch/SolrNet/compare/master...xavermorera:master?diff=unified&name=master

mausch / SolrNet

Unwatch 97 Unstar 482 Fork 389

Code Issues 59 Pull requests 19 Pulse Graphs

# Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also compare across forks.

base fork: **mausch/SolrNet** base: **master** ... head fork: **xavermorera/SolrNet** compare: **master**

✓ Able to merge. These branches can be automatically merged.

 Include explanation on Facet Limits in Facets.md and update link to CWiki

Write Preview Styling with Markdown is supported

Another small change for the documentation as suggested by @mausch in  
<https://github.com/mausch/SolrNet/issues/180>

Includes a small text change and link to CWiki. I will try to do a few more soon. Sorry for being so slow.

Attach files by dragging & dropping, selecting them, or pasting from the clipboard.

Create pull request

Include explanation on Facet Limits in Facets.md and update link to CWiki #226

xaviermorera wants to merge 10 commits into `mausch:master` from `xaviermorera:master`

Conversation 0 Commits 10 Files changed 1 +11 -1

xaviermorera commented just now

Another small change for the documentation as suggested by @mausch in #180

Includes a small text change and link to CWiki. I will try to do a few more soon. Sorry for being so slow.

xaviermorera added some commits on May 5, 2015

- Update Highlighting documentation ... 6d4243f
- Update Highlighting documentation ... 53ea81e
- Update Highlighting df9fdcc
- Merge remote-tracking branch 'origin/patch-2' 85692b9
- Merge remote-tracking branch 'origin/patch-3' 9e18f14

Labels None yet

Milestone No milestone

Assignee No one assigned

Notifications

Unsubscribe

You're receiving notifications because you authored the thread

Add more commits by pushing to the `master` branch on `xaviermorera/SolrNet`.



**Some checks haven't completed yet**  
1 pending check

[Hide all checks](#)

- continuous-integration/appveyor/pr — Waiting for AppVeyor build to complete [Details](#)



**This branch has no conflicts with the base branch**

Only those with [write access](#) to this repository can merge pull requests.



Write

Preview



Styling with Markdown is supported

Leave a comment

Attach files by dragging & dropping, [selecting them](#), or pasting from the clipboard.

[Close pull request](#)

[Comment](#)

**ProTip!** Add `.patch` or `.diff` to the end of URLs for Git's plaintext views.

# And After The Pull Request...

You may need to wait for merge

Maintainer needs to OK

Especially in open source

- Some are pretty quick!

Sometimes you need to improve

It is collaboration time



# Once You Get The OK...

Screenshot of a GitHub pull request page for the SolrNet repository.

**mausch / SolrNet**

Pull requests 19 | Issues 59 | Code | Pulse | Graphs

## Include explanation on Facet Limits in Facets.md and update link to CWiki #226

Merged mausch merged 10 commits into mausch:master from xavermorera:master 13 hours ago

Conversation 1 | Commits 10 | Files changed 1 | +11 -1

xavermorera commented 18 hours ago

Another small change for the documentation as suggested by @mausch in #180

Includes a small text change and link to CWiki. I will try to do a few more soon. Sorry for being so slow.

xavermorera added some commits on May 5, 2015

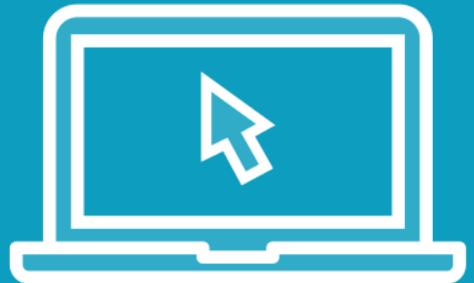
- Update Highlighting documentation ... 6d4243f
- Update Highlighting documentation ... 53ea81e

Labels: None yet

Milestone: No milestone

Assignee: No one assigned

Demo



Pull Requests



# Cleaning Up

Delete branch after merging

The screenshot illustrates the steps to delete a merged branch ('From\_Cherry\_Pick') after it has been cherry-picked into the 'master' branch.

**Initial State:** The 'File Status' sidebar shows 'Working Copy' checked. The 'Branches' section lists 'From\_Cherry\_Pick' and 'master'. A 'Graph' view shows a blue commit node labeled 'master' above a purple commit node labeled 'From\_Cherry\_Pick'. A tooltip for the purple node says 'Include a change to cherry pick'.

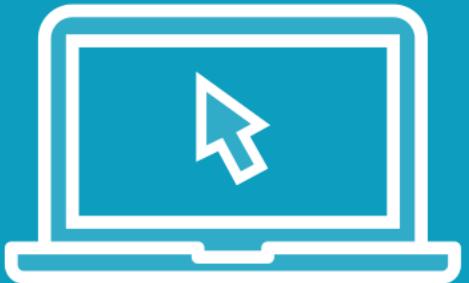
**Merge Step:** A 'Merge' dialog is open, prompting to 'Pick a commit to merge into your current branch'. It lists several commits from the 'From\_Cherry\_Pick' branch, with the first one ('Include a change to cherry pick') highlighted.

**Delete Step:** The 'From\_Cherry\_Pick' branch is selected in the 'Graph' view. A context menu is open, and the 'Delete From\_Cherry\_Pick' option is highlighted.

**Final State:** The 'File Status' sidebar now shows a message 'On master: My first' under the 'master' branch. The 'Graph' view shows the 'master' branch with its original commits, and the 'From\_Cherry\_Pick' branch is no longer present.



Demo



**Deleting Branches**  
**Cleaning Up**



# Takeaway

Mechanics Git with  
a GUI

Get Code

Work

State of Files  
Project Sections

Save, Share &  
Collaborate

Cleanup

