# Distributed Version Control for the Enterprise

Brad Wilson Principal Software Developer Tier 3















## Centrolized vs. distributed









# Why choose a DVCS?

- No single point of failure
- Developers can be productive while offline
- Offline operations are extremely fast... almost everything is offline
- No infrastructure required for skunk-works projects
- Admin in whatever model suits you best: benevolent dictator, Lieutenant, or multiple committers
- Branching "just works"



# A (very) brief history of Git

- Created by Linus Torvalds (~9 months) Maintained by Junio Hamano
- Source control for Linux since v2.6 in April, 2005
- Open source (<u>http://github.com/git/git</u>)
- TFS Online, GitHub, CodePlex, Bitbucket, and countless startups and enterprises

"Nothing else was good enough or fast enough."



## Microsoft









# Why Gif?

- Easy and fast branching and merging
- Snapshots of your working folder, not diffs
- Extremely fast with large repositories
- Cryptographic tamper-proofing of history
- Automatic support for renames

## ... it won in open source





# Snapshots



### 9a7a35d...



# Staging & committing

- git add puts copies of files (stages) into the "index" If you make further modifications to a file, you must re-stage it
- git commit converts the index into a commit
  - git commit -a does both 'add' (for mods/deletes) and 'commit'
  - Still need to use git add for new files
- git status shows you what's staged and unstaged
- Use built-in diff to show you differences in files
  - git diff shows you what you could stage
  - git diff --staged shows you would you could commit



# Sample: git status (unstaged)

```
# On branch master
# Changes not staged for commit:
   (use "git add/rm <file>..." to update what will be committed)
#
    (use "git checkout -- <file>..." to discard changes in working directory)
#
#
#
                   deleted.txt
       deleted:
#
       modified:
                   foo.txt
#
# Untracked files:
    (use "git add <file>..." to include in what will be committed)
#
#
#
        new-file.txt
no changes added to commit (use "git add" and/or "git commit -a")
```







# Sample: git status (staged)

```
# On branch master
# Changes to be committed:
   (use "git reset HEAD <file>..." to unstage)
#
#
#
       deleted: deleted.txt
#
       modified: foo.txt
#
       new file: new-file.txt
```





# Sample: gif diff

```
diff --git a/foo.txt b/foo.txt
index 3c619de..65d9d4f 100644
--- a/foo.txt
+++ b/foo.txt
@@ -1,4 +1,4 @@
This is a new file.
+Inserted a line here
And a new edit.
-This line I'm planning to delete later.
Fixed!
```



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<ul> <li>Added source line information to test discovery</li> <li>Added Source line information to test discovery</li> <li>Made Executor2 more testable. Moved some tests from Executor2Wrapper to Executor2. Introduced a         <ul> <li>Added TraitAttribute and support for it to XunitTestCase</li> <li>Brad Wilson <dothetguy@gn <="" li=""> <li>New string assertion that encodes, shows partial values, and show difference points.</li> <li>More iteration on the design of the test discovery system</li> <li>Noved IClassTestCase and IMethodTestCase to xunit abstractions</li> <li>Introduced xunit abstractions, and started exploring the shape of multi-framework support</li> <li>Update to 2.0.0-alpha</li> <li>Added missing CodeAnalysisDictionary.xml</li> <li>Remove reflection-based Task discovery</li> <li>Fix for issue #9797</li> <li>Mored DoesNotThrow tests out of ThrowsTests.cs</li> <li>Fix for issue #9775</li> <li>Upgrade all runners to .NET 4.5 (except Visual Studio)</li> <li>Upgrade all runners to .NET 4.5 (except Visual Studio)</li> <li>Upgrade all runners to .NET 4.5 (except Visual Studio)</li> <li>Upgrade all runners to .NET 4.5 (except Visual Studio)</li> <li>Upgrade all runners to .NET 4.5 (except Visual Studio)</li> <li>Upgrade all runners to .NET 4.5 (except Visual Studio)</li> <li>Updrate to xunit massument cleanup</li> <li>Fix the issues with DiaSession and async test methods</li> <li>Add support for traits in VS2012 runner</li> <li>Updrated xunit massument and test framework stringes to radius of the example.Peorult To Yml()</li> </dothetguy@gn></li></ul> </li> <li>Fix cheisage and wilson <dothetguy@gm< li=""> <li>brad Wilson <dothetguy@gm< li=""> <li>brad Wilson <dothetguy@gm< li=""> <li>brad Wilson <dothetguy@gm< li=""> <li>brad</li></dothetguy@gm<></li></dothetguy@gm<></li></dothetguy@gm<></li></dothetguy@gm<></li></ul>	Replaced ExecutorWrapper with a controller pattern	Brad Wilson <dotnetguy@gm< td=""></dotnetguy@gm<>
Made Executor2 more testable. Moved some tests from Executor2Wrapper to Executor2. Introduced a       Brad Wilson <dotnetguy@gn< td="">         Added TraitAttribute and support for it to XunitTestCase       Brad Wilson <dotnetguy@gn< td="">         More API iteration       Brad Wilson <dotnetguy@gn< td="">         New string assertion that encodes, shows partial values, and show difference points.       Brad Wilson <dotnetguy@gm< td="">         More iteration on the design of the test discovery system       bradwilson <dotnetguy@gm< td="">         Moved IClassTestCase and IMethodTestCase to xunit.abstractions       bradwilson <dotnetguy@gm< td="">         Introduced xunit.abstractions, and started exploring the shape of multi-framework support       bradwilson <dotnetguy@gm< td="">         VLpdate to 2.0.0-alpha       bradwilson <dotnetguy@gm< td="">         Added missing CodeAnalysisDictionary.xml       bradwilson <dotnetguy@gm< td="">         Fix for issue #9797       bradwilson <dotnetguy@gm< td="">         Moved Console runner message when running test assembly with no tests       bradwilson <dotnetguy@gm< td="">         Fix for issue #9775       bradwilson <dotnetguy@gm< td="">         Upgrade all runners to .NET 4.5 (except Visual Studio)       bradwilson <dotnetguy@gm< td="">         Upgrade vanit.msbuild to support SemVer package versions       Brad Wilson <dotnetguy@gm< td="">         Fix the issues with DiaSession with async test methods       Add support for traits in VS2012 runner         Updated taunit.msbuild to support SemVer package versions       Br</dotnetguy@gm<></dotnetguy@gm<></dotnetguy@gm<></dotnetguy@gm<></dotnetguy@gm<></dotnetguy@gm<></dotnetguy@gm<></dotnetguy@gm<></dotnetguy@gm<></dotnetguy@gm<></dotnetguy@gm<></dotnetguy@gn<></dotnetguy@gn<></dotnetguy@gn<>	Added source line information to test discovery	Brad Wilson <dotnetguy@gm< td=""></dotnetguy@gm<>
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<pre>Search Diff Old version New version Lines of context: 3  Ignore space change Line diff  + <repository path="\test\test.xunit.runner.visualstudio\packages.config"></repository>  \ No newline at end of file src/xunit.runner.visualstudio/DiaSessionWrapper.cs index 8948ece09cf529 100644 @@ -1,4 +1,8 @@ i*jusing System; +using System.C; +using System.Security; +using System.Security; +using System.Security; +using System.Security; +using System.Security; +using Microsoft.VisualStudio.TestPlatform.ObjectModel; namespace Xunit.Runner.VisualStudio @@ -8,7 +12,9 @@ namespace Xunit.Runner.VisualStudio // that the PDB file is missing or corrupt).     public class DiaSessionWrapper : IDisposable { } </pre>		Patch Tree          Comments         packages/repositorie         src/xunit.runner.visua         src/xunit.runner.visua         xunit.sln
+ AppDomain appDomain; string assemblyFilename;		
+ DiaSessionWrapperHelper helper; DiaSession session; bool sessionHasErrors;		
00 -18,6 +24,45 00 public DiaSessionWrapper(string assemblyFilename)		
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•	A state	Update to 2.0.0-alpha	bradwilson
•	-	Added missing CodeAnalysisDictionary.xml	bradwilson
•	A state	Remove reflection-based Task discovery	bradwilson
•	A state	Fix for issue #9799	bradwilson
•	A state	Moved DoesNotThrow tests out of ThrowsTests.cs	bradwilson
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	A state	Updated xunit.msbuild to support SemVer package versions	bradwilson
•	A state	Pre-caching environment and test framework strings to reduce the time of AssemblyResult.ToXml()	bradwilson
•	🧔 📮 😰 🚳	Improve performance of acceptance tests	bradwilson
•	A state	Fixed incorrect output path for unit test build	bradwilson
•	A state	Incorrect path to nuget.exe for making packages	bradwilson
•	- A	Fix tests broken by TeamCity's use of JGit	bradwilson

SHA-1: ac9ebf9ab61d8a544fda99c62995c755842d9cca

\* Fix the issues with DiaSession with async test methods and derived test methods

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C# src/xunit.runner.visualstudio/DiaSessionWrapper.cs	.CS	Modified	100	2	
💕 src/xunit.runner.visualstudio/extension.vsixmanifest	.vsixmanifest	Modified	2	2	
xunit.sln	.sln	Modified	2	2	

Showing 66 revision(s), from revision 399ea8c to revision 7c6e83d - 1 revision(s) selected









## What is "HEAD"?

- Your working folder contains a copy of source code
- The point in the repository you're working from is called HEAD
- You will typically have HEAD pointing at a branch (f.e., master)
- Use git checkout to change what HEAD is pointing to
  - Your working folder updates when you check out
  - You may not be able to check out if you have conflicting pending changes



## Branches & tags

- A branch in Git is a "sticky note" pointing at a commit
- git checkout *hash* points HEAD at a commit git checkout branch points HEAD at a branch
- When you commit, HEAD always moves forward... ...and if HEAD is pointing at a branch, the sticky note moves, too
- Creating a new branch is just making a new sticky point, pointed (by) default) to wherever HEAD is point to
- Tags are sticky notes that don't automatically move















### git commit -m "My first commit"















### git branch bug123







### git checkout bug123







### git commit (x2)







### git checkout master









### git merge bug123

## **Fast-forward** Merge



# Branching



git branch -d bug123







### git checkout bug456







### git commit (x2)







### git checkout master







### git merge bug456







### git branch -d bug456

## Merge Workflow













git rebase master







git checkout master / git merge bug456 / git branch -d bug456

## Rebase Workflow



## Merge vs. rebase

- Merge preserves history, at the expense of extra commits
- Rebase rewrites history, but makes sharing branches painful
- Many tools will push you towards a merge workflow
- You can use whatever suits you best

You may have heard rebase is scary...

...but isn't that exactly what your centralized VCS does today?


### Remotes

- Named repositories for sharing with
  - Configure as many as you like using git remote
  - By convention, origin is the name of the remote you cloned from
- Use git fetch *remote* to get new changes w/out applying them
- Use git pull *remote* to get *and* apply new changes
- Use git push *remote* to send new changes



## Fetch & pull

- Both fetch and pull receive *all* changes for *all* remote branches
- Pull only applies changes to the *current* branch
  - Applies changes with merge workflow by default
  - Add --rebase to use rebase workflow instead
- Use git branch a to see all branches, local and remote
- Use git merge remotes/*remote/branch* to merge in changes from the remote branch to your local branch
- Use git checkout *branch* with a remote branch name to create a local branch that tracks the remote (like master does by default)



### Push

- Push sends changes from your local branch to the tracked remote branch.
- If you're out of date, you can't push before you pull
- It is typical to use the same name for local and remote branches which track each other (though not required)
- Use git push --set-upstream remote when first pushing a branch, to automatically set the tracking relationship





















### git checkout master







### git pull origin







git merge bug 456







### git push origin







### git branch -d bug456





## Remote branches

- Remember, a remote branch is just a branch
- The same merge vs. rebase strategies apply when merge between a remote and local branch as when merging between local branches
- Tracking relationships are local: your repository's relationships are local to you only, not shared





### git checkout bug456





git push --set-upstream origin















### git pull origin





### git push origin





### git checkout master





git merge bug456





### git push origin





### git branch -d bug456





### git push origin :bug456







## Local branch strategies

Short-lived local branches

- The merges from master are simpler that way
- Work on several things at once in several branches
- Create, commit, merge, push, delete



## Server branch strategies

### Short-lived server branches

- Collaboration with co-workers
- Sharing code between multiple PCs
- Backing up in-progress code

- Long-lived server branches
  - Use to work in parallel on multiple versions
  - Same strategy as master: work in a local branch and integrate often



## Thoughts on branching & tags

- The longer people are out of the main branch, the more painful the merges become – merge frequently
- Feature branches help prevent collisions, but delay integration
- Version branches have more churn, with frequent integration benefits
- Use tags when shipping; create branches only if you need to create an out-of-band patch
- Branches & tags are super cheap; don't be afraid to use them freely





## Continuous integration

- Branches on the server represent work in progress
- Set up your CI server to automatically build all branches
- Push-button or automatic deployments from designated branches

### hes ated branches



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encryption	#1.0.203	🥝 Tests passed: 5664, ignored: 32 🖙	No artifacts   🗢	(1) 🖙	
octopackage	#1.0.196	🥑 Tests passed: 5656, ignored: 32 🖙	No artifacts   🗢	(1) 🖙	
373-HnError	#1.0.172	Itests failed: 1, passed: 5661, ignored 32; process exited with code 1	: No artifacts   ⇔	(1)   🗢	
Deploations	#1.0.127	🥝 Tests passed: 5653, ignored: 32 🖙	No artifacts   🗢	(2) 🖙	
Release   -				Pending (159) I	
refs/master	#1.0.754	🖉 Tests passed: 5664, ignored: 32 🖙	Artifacts   🗢	Changes (3) 🗢	

no hidden  $|\bigtriangledown|$  ×

Run ...

### Stop

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13 minutes ago (4m:28s) 9 minutes ago (12m:21s) 18 minutes ago (4m:38s) 19 minutes ago (18m:22s) 49 minutes ago (4m:53s) one hour ago (5m:20s) one hour ago (4m:57s) 16 hours ago (7m:05s) 21 hours ago (4m:48s) 22 hours ago (14m:06s) one day ago (4m:23s) one day ago (4m:36s) 3 days ago (4m:29s) 3 days ago (6m:04s) 4 days ago (5m:25s) 4 days ago (4m:33s) 4 days ago (4m:25s) 5 days ago (13m:12s)



Run ...

Х

3 hours ago (22m:49s)

### Code reviews

- What do you mean you aren't pairing? ③
- Use server branches to share and contribute
- Some hosts offer code review facilities via pull requests



### **Being evaluated**

Agat requested Agat/BuildManagerCompiledView0Render:master to be merged into aspnetwebstack:master on Sun Jan 27, 2013 at 6:58 AM Assigned to: Unassigned

Commits: 08bd0e534186, 4bbcb80d5c7f, 5dbfcdd0ba01, bd158d4653d3, deaea4ff0d5a, f404a7416093

Comments (5)	Changes (3)		
edit	src/System.Web.Mvc/BuildManagerCompiledView.cs (View full diff) src/System Web.WebPages/WebPageBase.cs (View full diff)		
edit	src/System.Web.WebPages/WebPageExecutingBase.cs (View full diff)		

### src/System.Web.Mvc/BuildManagerCompiledView.cs



### Back to changes | View full diff



6		<pre>src/Microsoft.AspNet.SignalR.Client/IConnection.cs</pre>
		00 -6,8 +6,9 00
6	6	using System.Net;
7	7	using System.Threading;
8	8	using System.Threading.Tasks;
9		-using Newtonsoft.Json.Linq;
10	9	using Microsoft.AspNet.SignalR.Client.Http;
	10	+using Newtonsoft.Json;
	11	+using Newtonsoft.Json.Linq;
11	12	
12	13	namespace Microsoft.AspNet.SignalR.Client
13	14	{
		<pre>@@ -37,5 +38,8 @@ public interface IConnection</pre>
37	38	<pre>void OnReconnecting();</pre>
38	39	<pre>void OnReconnected();</pre>
39	40	<pre>void PrepareRequest(IRequest request);</pre>
	41	+
	42	<pre>+ JsonSerializer JsonSerializer { get; set; }</pre>
	43	<pre>+ string JsonSerializeObject(object value);</pre>
	5	
		davidfowl repo collab

This should not be on the interface.

### bjarteskogoy

I did this because the HubProxy is referencing the interface and needs to serialize to Json on line 153 in HubProxy.cs. The JsonSerializer must be set when testing the HubProxy using a mocked up IConnection. Maybe it can be solved in another way.





### Resources

http://www.git-scm.com/

Git's home on the internet

http://www.git-scm.com/book

Online book "Pro Git"

### http://gitref.org/

Online reference for all git commands (don't forget about "git help"!)

### http://try.github.com/

Try git in your browser, with step-by-step instructions

### http://gitready.com/

Tons of tips and tricks for Git users of all experience levels





## 

http://code.google.com/p/msysgit
Git command line for Windows (includes git-bash)

http://code.google.com/p/tortoisegit
TortoiseGit (with TortoiseMerge)

http://github.com/dahlbyk/posh-git
Posh-Git (for PowerShell users)

http://www.jetbrains.com/teamcity

TeamCity Continuous Integration





# @bradwilson http://bradwilson.typepad.com/

