

Using `git` on Windows

Or, the miracle of TortoiseGIT



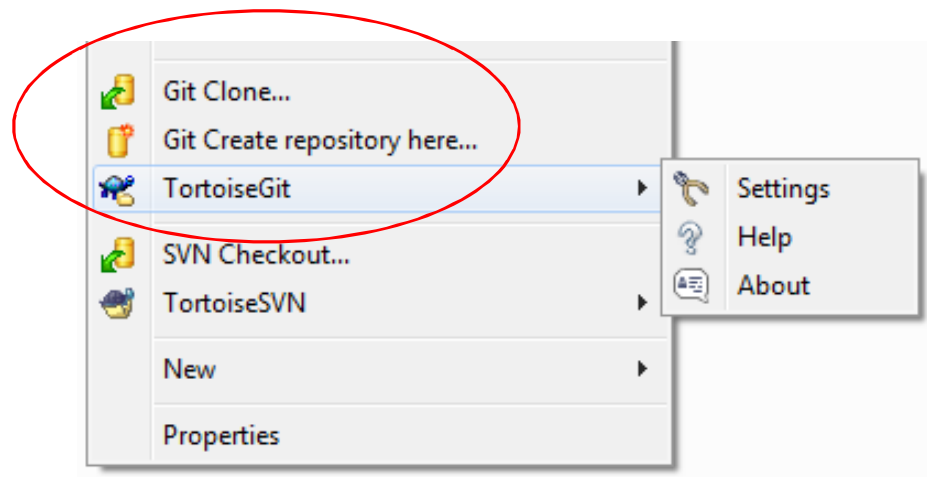
TortoiseGIT

Git: let someone else suffer for you

- **GitHub** – nice web interface for *remote* work
- **TortoiseGIT** – nice native interface for *local* work
- TortoiseGIT is a port of TortoiseSVN
 - Familiar interface
 - Go to <http://tortoisegit.org> for documentation
 - Active support & updates
 - Integrates with Windows Explorer: icons, right click

TortoiseGIT basics

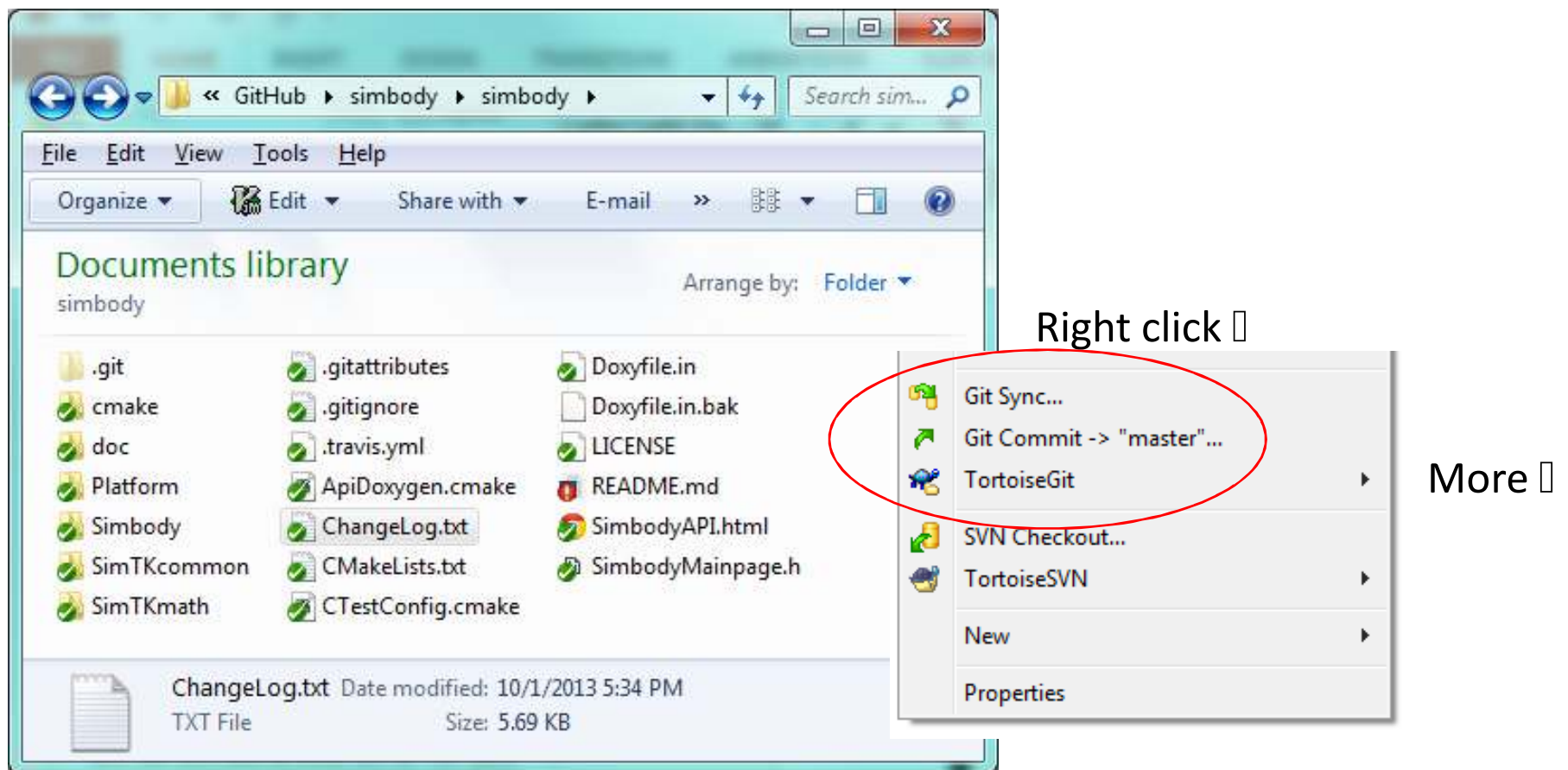
- If no repo, right click to create or clone one



(Peaceful coexistence with TortoiseSVN)

TortoiseGIT basics

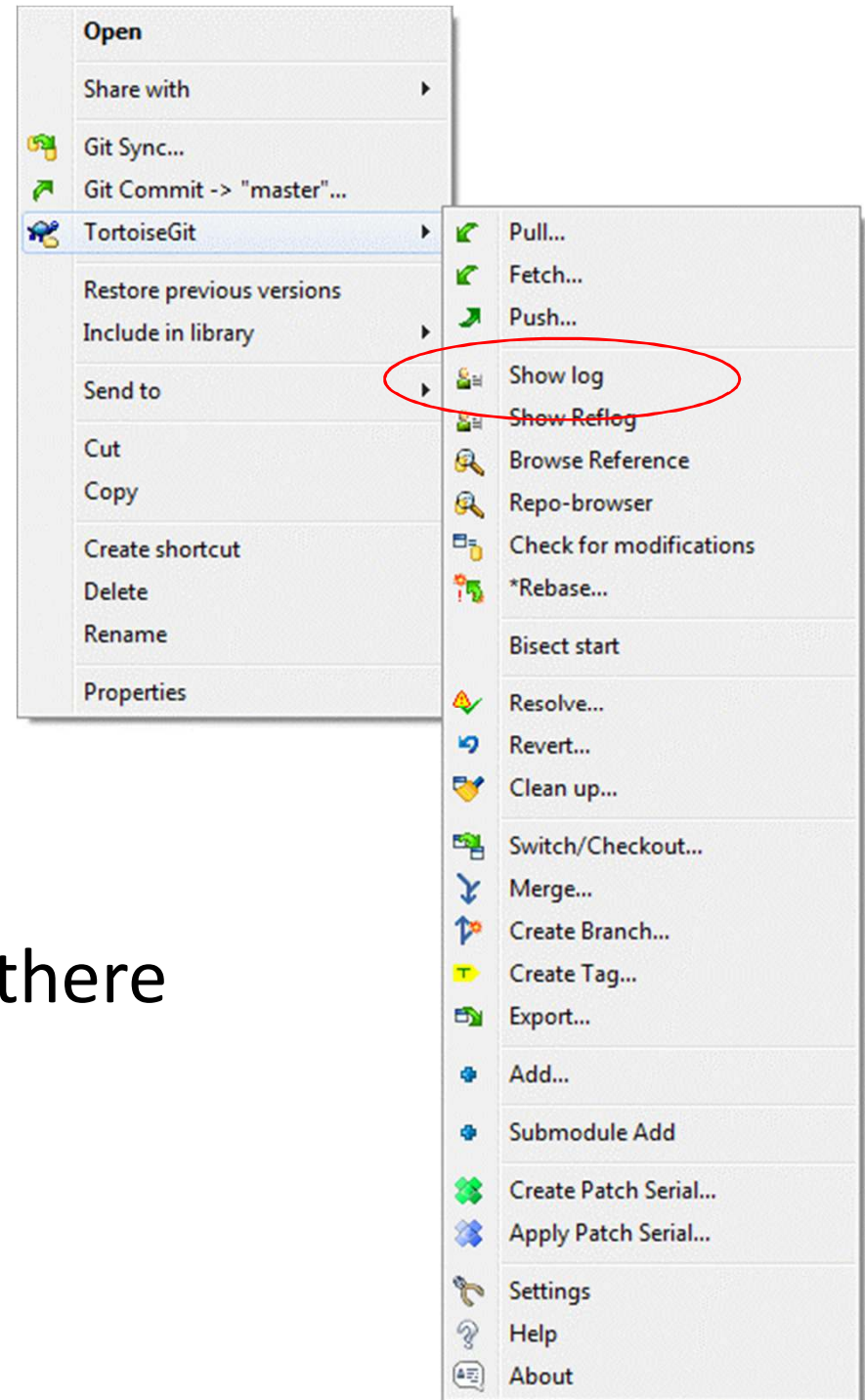
- Once you have a repo, looks like this:



TortoiseGIT basics

□ Access to all the useful git stuff, but friendlier

- Best feature: **Show log**
- Can do almost anything from there (and see what you're doing)



Show log

Right click

The screenshot shows the TortoiseGit Log Messages window for the repository `C:\Users\Sherm\Documents\GitHub\simbody\simbody`. The window displays a list of commit messages, a graph of branches, and a table of files. The commit message "Quick fix: disable find_package() of BLAS and LAPACK for Windows" is selected, and its SHA-1 hash is shown below. The file table shows `CMakeLists.txt` as modified. The bottom of the window shows the "Walk Behaviour" section with "Show Whole Project" unchecked and "All Branches" checked.

From: 7/26/2005 To: 4/29/2014

Graph Actions Message

RE-engineered the time stepper and impulse solvers to apply expansion impulses inside the solver rather than e
First checkin for the PLUS Newton solver in Simbody. SemiExplicitEulerTimeStepper is configured to use that onl
Bug fixes and tweaks to the induced impact sequence and the PGS solver.
Fix several more warnings & errors caught by clang (via Travis).
Fix compilation problem caught by Travis.
First glimmer of rigid contact code in Simbody, not fully functional yet. There is a new test program RigidContac
Merge pull request #136 from j-rivero/master
Update to version 3.5 in master branch
Move debian directory to doc
Update changelog
Move all 3.3 mentions in debian metadata to 3.4
Merge pull request #131 from chrisdembia/issue-128
Fix bug in optimizer test suite nlqpl (for loop limit was too big). This was detected by gcc's aggressive loop opt
Fixes #128.
Merge pull request #130 from chrisdembia/issue-130
Fixes #130.
Merge pull request #127 from elen4/improveCMake
Quick fix: disable find_package() of BLAS and LAPACK for Windows
Disable Visualizer compilation if dependencies are not found
Use CMake modules to find BLAS and LAPACK
Merge pull request #126 from chrisdembia/patch-1
When using GCC or Clang, use C++11 by default.
Change version number on master branch to 3.5.
origin/simbody-3.4 | Simbody-3.4.1 Merge pull request #133 from j-rivero/simbody-3.4
Update to 3.4.1 release
Update install files
Support for precise which does not use multiarch in GNUInstallDirs
New 3.4 release
Move all 3.3 references in debian metadata to 3.4
Change version number on 3.4 branch to 3.4.1.
Simbody-3.4 Merge pull request #124 from tkuchida/PLUSImpact
Overloaded calcSlidingStepLengthToOrigin() and calcSlidingStepLengthToMaxChange() to handle 3D vectors, a

SHA-1: 6b69e981b7a9b44fa4b3bf93840c37016c03bb2c

* Quick fix: disable find_package() of BLAS and LAPACK for Windows

Path	E...	Status	Li...	Li...
CMakeLists.txt	.txt	Modified	9	6

Showing 3719 revision(s), from revision 83335dd to revision 90d439a - 1 revision(s) selected, 0 file(s) selected

Show Whole Project
All Branches

Refresh

Walk Behaviour View

Statistics Help OK

- Compare with working tree
- Show changes as unified diff
- Compare with previous revision
- Browse repository
- Merge to "master"...
- Reset "master" to this...
- Switch/Checkout to this...
- Create Branch at this version...
- Create Tag at this version...
- Rebase "master" onto this...
- Export this version...
- Revert change by this commit
- Edit Notes
- Cherry Pick this commit...
- Format Patch...
- Copy SHA-1 to clipboard
- Copy to clipboard
- Copy log messages to clipboard
- Search log messages...
- Show branches this commit is on

TortoiseGIT – other useful stuff

- Switch/checkout (can create new branch too)
- Pull (fetch + merge)
- Diff
- Stash save
- Push
- Did I mention Show log?
- Can often combine with Sync or Commit



GitHub



TortoiseGIT



git ?

(on Windows)