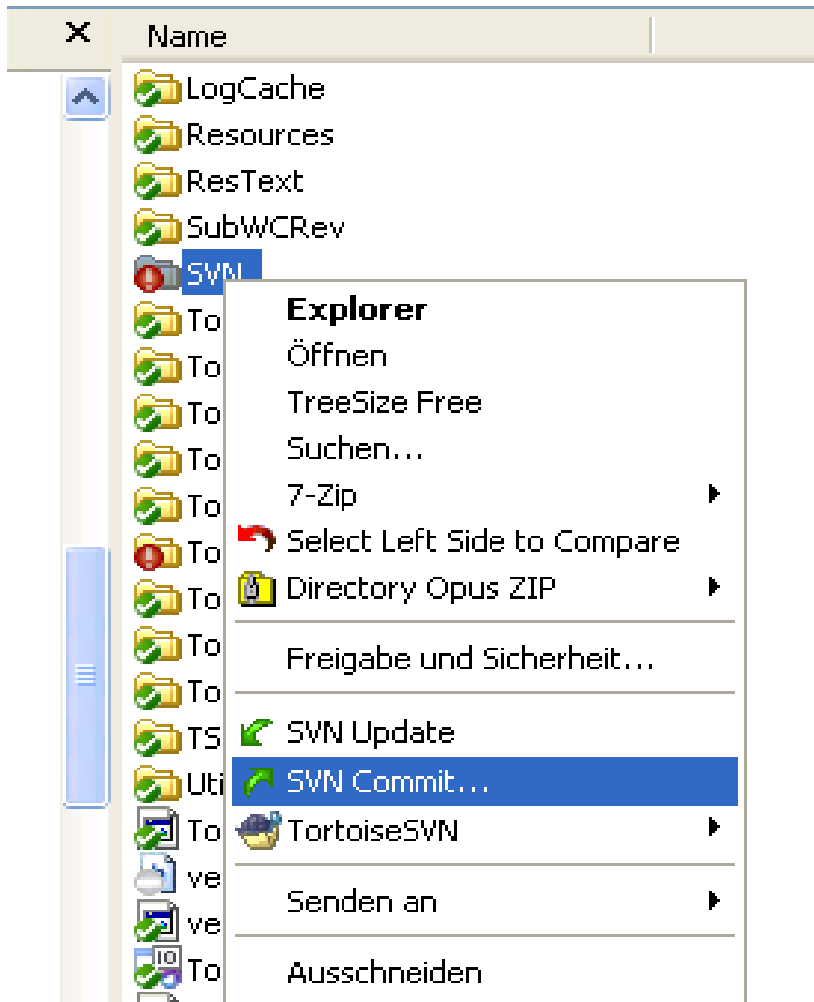


TortoiseSVN

## 1.7 and Beyond

# What is TortoiseSVN



- *The* SVN client on Windows
- Integrated into Explorer
- Indicate w/c state as overlay
- Accessible from any application
- Exceeds basic SVN functionality
- Extensive documentation
- Available in > 30 languages

# What Happened Since 1.6.0

- 22 months of development
- 4159 commits (1868 src, 2291 doc and others)
- 48 new features
- 16 feature improvements
- 2 unreleased bug fixes
- 116 bug fixes and 16 other changes released in 1.6.x

(statistics as of 2010-01-05, revision 20666)

# New in 1.7.0

- Full SVN 1.7 feature support
- Log dialog
  - fast even for > 1 million revs
  - search-engine-like complex filter
  - highlight matching strings
  - multi-select displays shortened summary of messages
  - revisions mentioned in messages are turned into links
  - export of changed items

# Log Dialog Demo

The screenshot shows the 'Log Messages' dialog in TortoiseSVN. The title bar reads 'Log Messages - D:\Development\SVN\TortoiseSVN'. The search bar contains 'propert method'. The main table lists revisions, with revision 20225 by 'stefan.fuhrmann.1974' on 'Sonntag, 3. Oktober 2010 13:45:12' selected. The message for this revision is: '\* add SetCharFormat for a large number of positions to CAppUtils' and '\* refactor FindBugID and FindBugIDs methods in ProjectProperties, partly using the new CAppUtils::SetCharFormat'. Below the table, a list of affected paths shows four files modified. At the bottom, there are checkboxes for 'Show only affected paths', 'Stop on copy/rename', and 'Include merged revisions', along with buttons for 'Statistics', 'Help', 'OK', 'Show All', 'Next 500', and 'Refresh'.

Revision	Actions	Author	Date	Bug-ID	Message
20526		tortoisesvn	Montag, 22. November 2010 20:10:38		* Add method to
20525		tortoisesvn	Montag, 22. November 2010 19:10:53		New method to
20523		tortoisesvn	Sonntag, 21. November 2010 15:27:24		Created a base
20225		stefan.fuhrmann.1974	Sonntag, 3. Oktober 2010 13:45:12		* add SetCharFo
20013		tortoisesvn	Freitag, 13. August 2010 21:46:17		Adjust several m

\* add SetCharFormat for a large number of positions to CAppUtils  
\* refactor FindBugID and FindBugIDs methods in ProjectProperties,  
partly using the new CAppUtils::SetCharFormat

Path	Action	Copy from path	Revision
/trunk/src/TortoiseProc/AppUtils.cpp	Modified		
/trunk/src/TortoiseProc/ProjectPropertie...	Modified		
/trunk/src/TortoiseProc/ProjectPropertie...	Modified		
/trunk/src/TortoiseProc/AppUtils.h	Modified		

Showing 31 revision(s), from revision 383 to revision 20526 - 1 revision(s) selected, showing 4 changed paths

☐ Show only affected paths ☐ Stop on copy/rename ☐ Include merged revisions

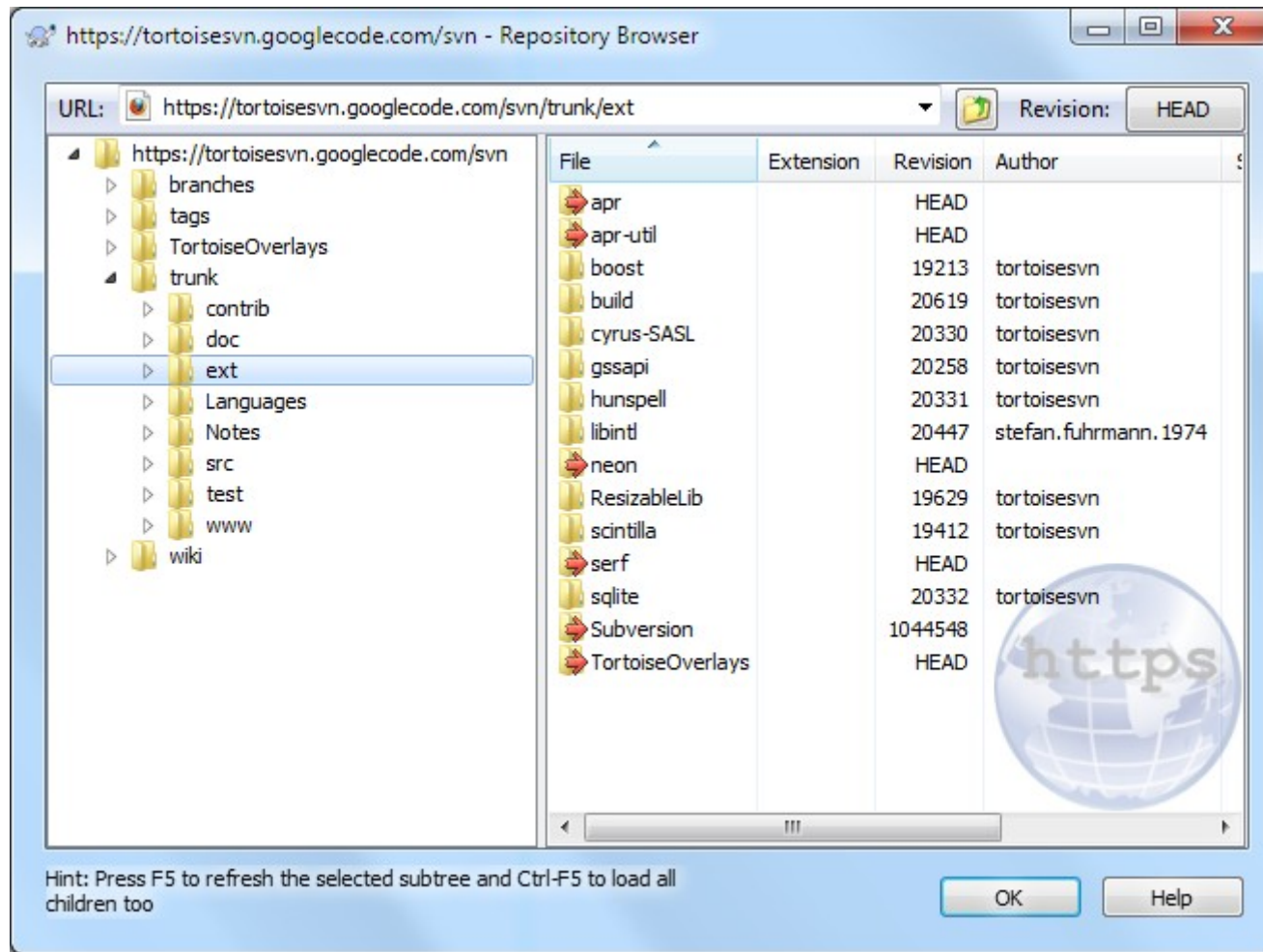
Statistics Help OK

Show All Next 500 Refresh

# New in 1.7.0

- OS support
  - Windows 7 Aero look and libraries
  - 64 bit installer also includes support for 32 bit applications
- Repository browser
  - shows svn:externals as sub-trees
  - edit files directly
  - drag to explorer to create an URL link
  - pre-fetch sub-folder content using parallel queries

# Repository Browser Demo



# Workflow Enhancements

- Adjusting externals to a fixed revision when branching or tagging
- Check-out dialog supports single files and multi-select
- New dialog for sparse checkouts
- Offer automatic update and retry if a commit failed due to an outdated working copy
- More command line options
- TortoiseUDiff can operate from stdin ("pipe")



# Other Improvements

- Custom dialogs to edit specific properties
- New, particularly small, overlay icon set
- Option only to add the TSVN menu items for SVN w/cs
- URL handler for TSVN commands
- Various small improvements all over the place, e.g. TMerge
- More general feature availability

# 1.8 and Beyond



# Fast and Efficient

- Further SVN speedup allows for pre-fetching logs and w/c data
- Off-line commits open a whole new world of possibilities
- New client-side features, e.g. partial file commits
- Streamline workflows
  - Reduce clicks and UI complexity
  - Re-use information like last URLs everywhere
  - Display repository content inside the Explorer

# Chatty Cathy – A Wild Idea

- Aim-like application fed from TSVN and user-defined agents
- Inform user on various events and suggest SVN actions
  - Check-in by other user
  - Detect [potential] conflicts and required updates
  - User-defined checks on properties
  - Suggest commits
- Accept / reject / postpone suggested actions with a single click

# (T)SVN in 2020

- SVN can be the fastest and most powerful SCM system
  - Servers can afford for expensive HW and optimizations
  - Cascading repository setups (i.e. DVCS) feasible
  - C/S architectures tend to handle multi-core clients better
- Maybe, learn the difference between content and containers
  - Users modify code and documents (content)
  - Most SCM systems manage files (containers)
  - Mismatch makes changes like refactoring hard