



SmartGit 23.1

Simplify your workflows with the
Standard window

Housekeeping

- Recorded
- Use the Q&A Module to ask questions and share comments
- We will send the Slides and a link to the recording in the next days.

Daniel Siegl - Syntevo



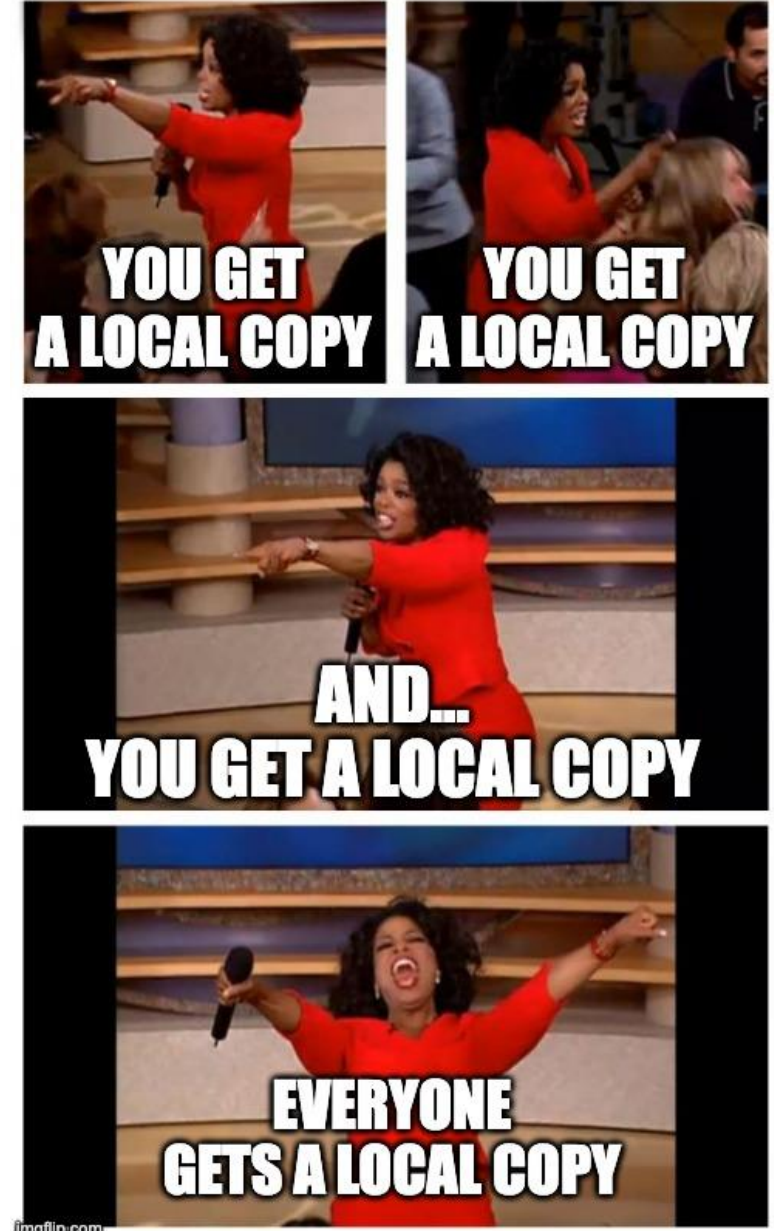
Continuous Improvement

We are happy to hear your feedback!

- > <https://smartgit.userecho.com/>
- > smartgit@syntevo.com

Problem Statement

- Complex Git Commands
- Inefficient Workflows – hard to document
- “clean history” goals
- Conflict Resolution Challenges
- Cross-Platform Inconsistencies




Rationale behind Standard Window (1/2)

- Why Standard Window?
 - Simplification for users
 - Enable standardized processes for organizations
 - Combination of log and working tree – was frequently requested

<https://www.syntevo.com/smartgit/standard-window/>

Rationale behind Standard Window (2/2)

- Commercial only
- Feature Branch based workflows
- Tabs for fast navigation
- E.g. Smart Pull 
- Easy Setup/Configuration

Smart Pull

The pull command comes without confirmation or options dialog. Like many other commands, it requires a clean working tree and index. This helps to avoid additional conflicts caused by local modifications.

Pulling will automatically forward all local branches, if they were matching their tracked branch before. It will also delete obsolete tracking branches if they have been merged.

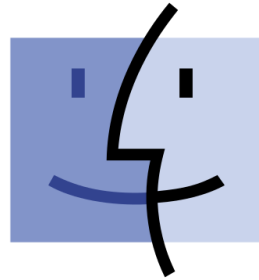
Fetching is possible using the Pull toolbar's popup menu that shows up when click-holding the toolbar button.



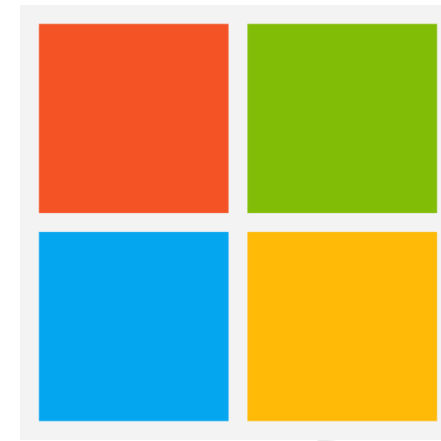
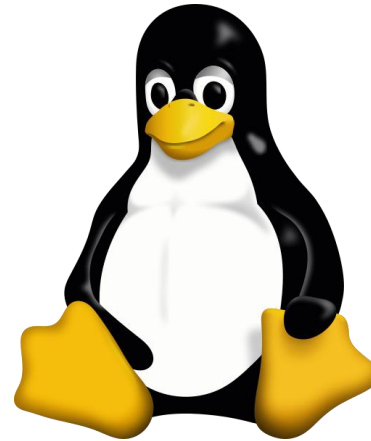
We have deliberately
restricted freedoms to avoid
complex Git states.

Multiplatform

- > Mac
- > Linux
- > Windows
- > Same experience across platforms!

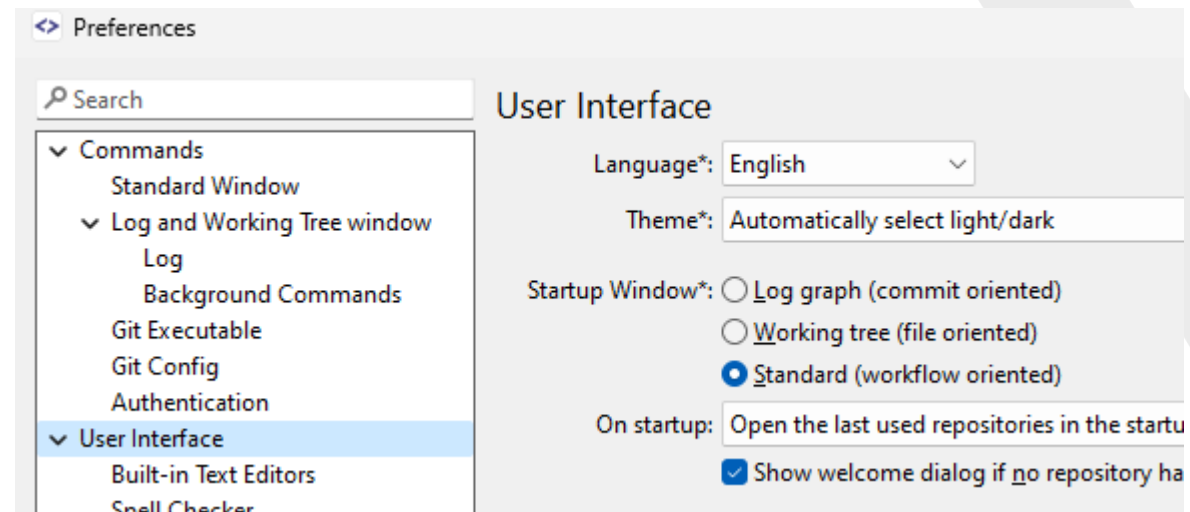
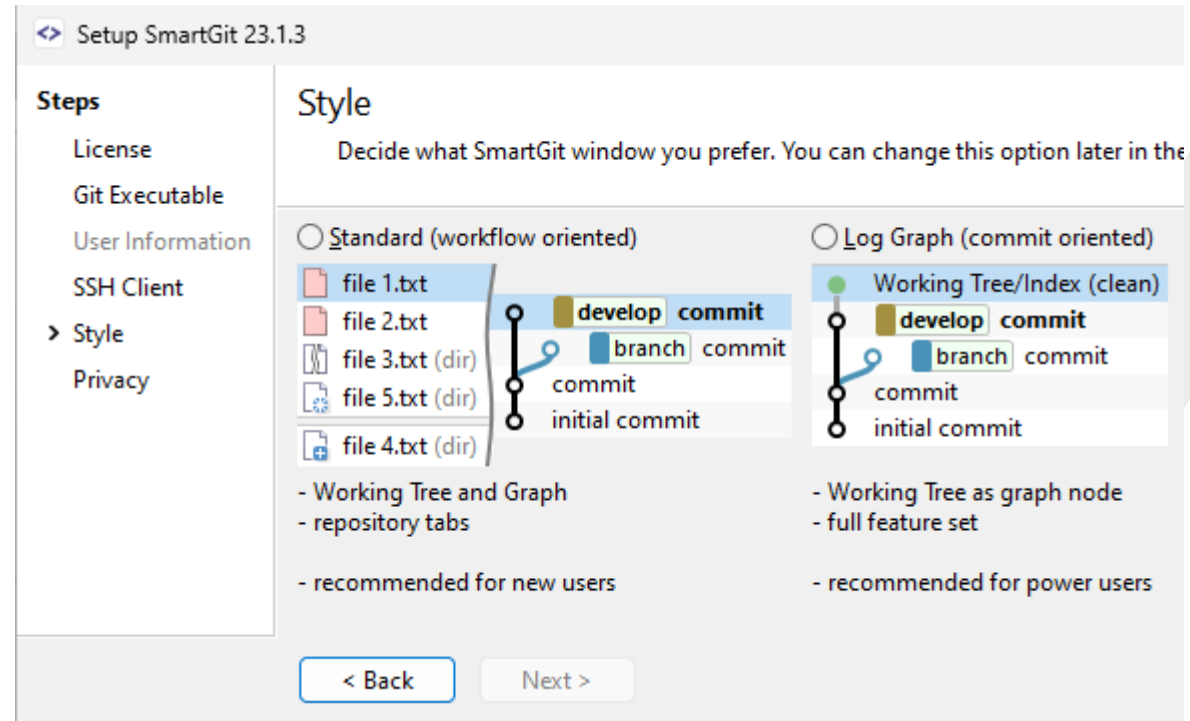
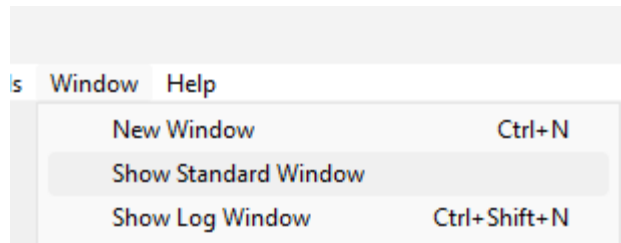


MacTM OS



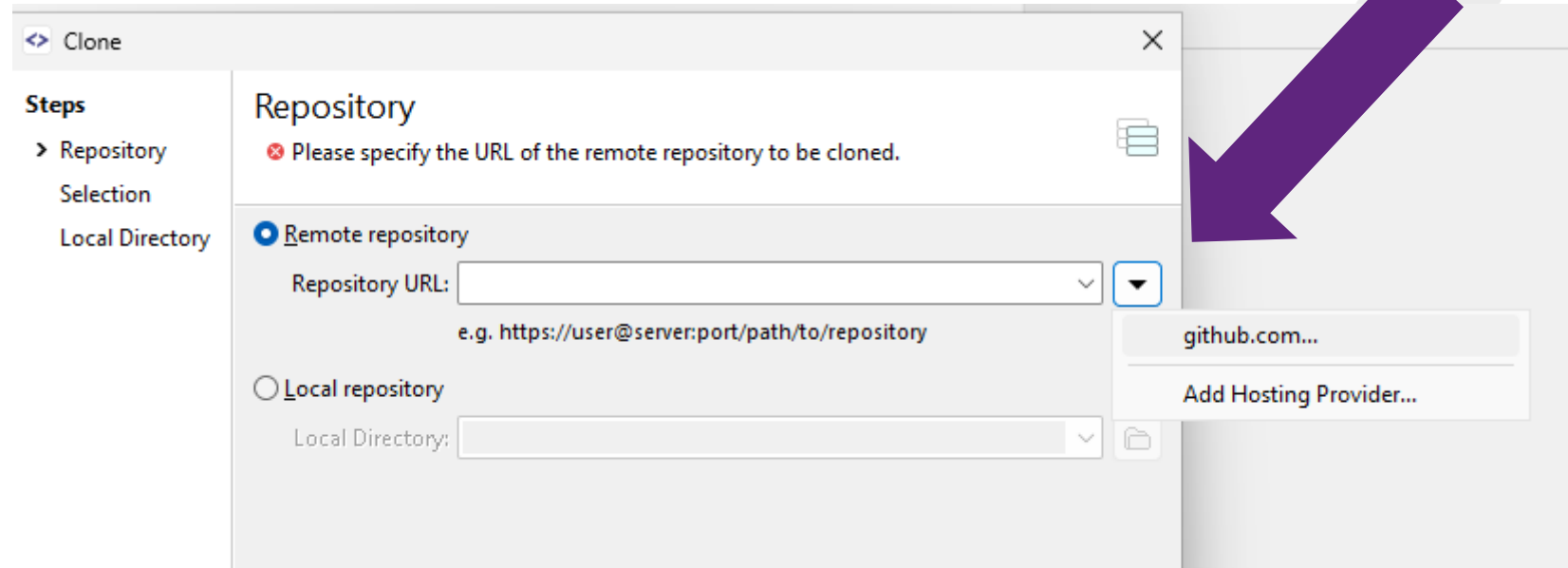
How to access

- Start Up Wizard
- Preferences
- Menu



Clone with Hosting Provider Integration

- Token based authentication
 - GitHub
 - GitLab
 - Azure DevOps
 - Bitbucket
- Preferences



Enhanced Workflow Support

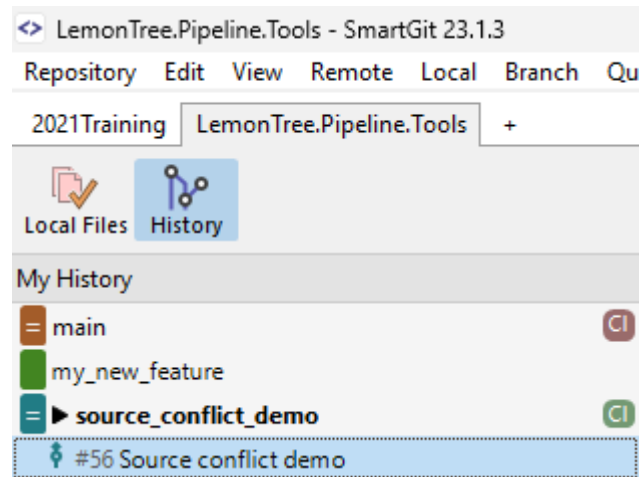
- > Start
- > Integrate
- > Finish



→ Similar to GitFlow Wizard but easier to set up and use
e.g. Integrate will automatically pull main/develop branch before starting rebase.

GitHub features

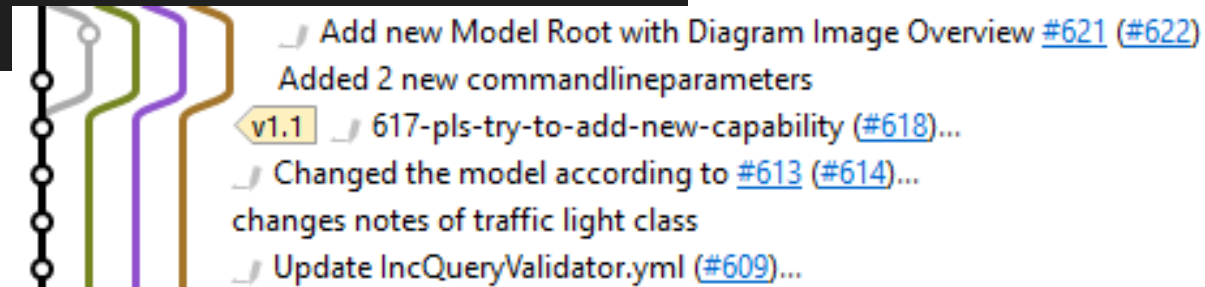
- > CI/CD
- > PR Integration



.gitbugtraq

- Universal Issue Tracker Integration
- Definition and samples: <https://github.com/mstrap/bugtraq>

```
# An example content of .gitbugtraq to put in the repository root directory.  
# It could instead be added as an additional section to $GIT_DIR/config.  
# (note that '\' need to be escaped).  
[bugtraq]  
url = https://github.com/LieberLieber/LemonTree.PCS.Demo/issues/%BUGID%  
loglinkregex = "#\\d+"  
logregex = \\d+
```



- Simply create a .gitbugtraq file for your project

Jira Integration

Select Issue
✕

Select commit message by JIRA issue

The selected issue summary will be used as commit message.

SG-
✕ *

Key	Summary	Status	Fix Version ^
SG-16644	Refresh (macOS): ignore ".Trash" to prevent "Operation not permitted" error	Open	23.1.4
SG-16782	Hosting Providers: configuration of 23.1 is not properly upgraded (UUIDs are missing)	Open	24.1 preview 8
SG-16783	Refresh: should tolerate invalid commits (no authors, ...)	Open	24.1 scheduled
SG-16767	Git-Flow: support --ff-only	Open	24.1 scheduled
SG-16638	Clone, GitHub: add options which kind of repositories to query	Open	24.1 scheduled
SG-16625	CgStatusScanner: Git-like optimization to not check content if file size is not identical	Open	24.1 scheduled
SG-16593	GitHub support: improvements	Open	24.1 scheduled

Query Configuration

Refresh
[Load All Issues](#)
Select
Cancel

<https://docs.syntevo.com/SmartGit/Latest/JIRA.html>

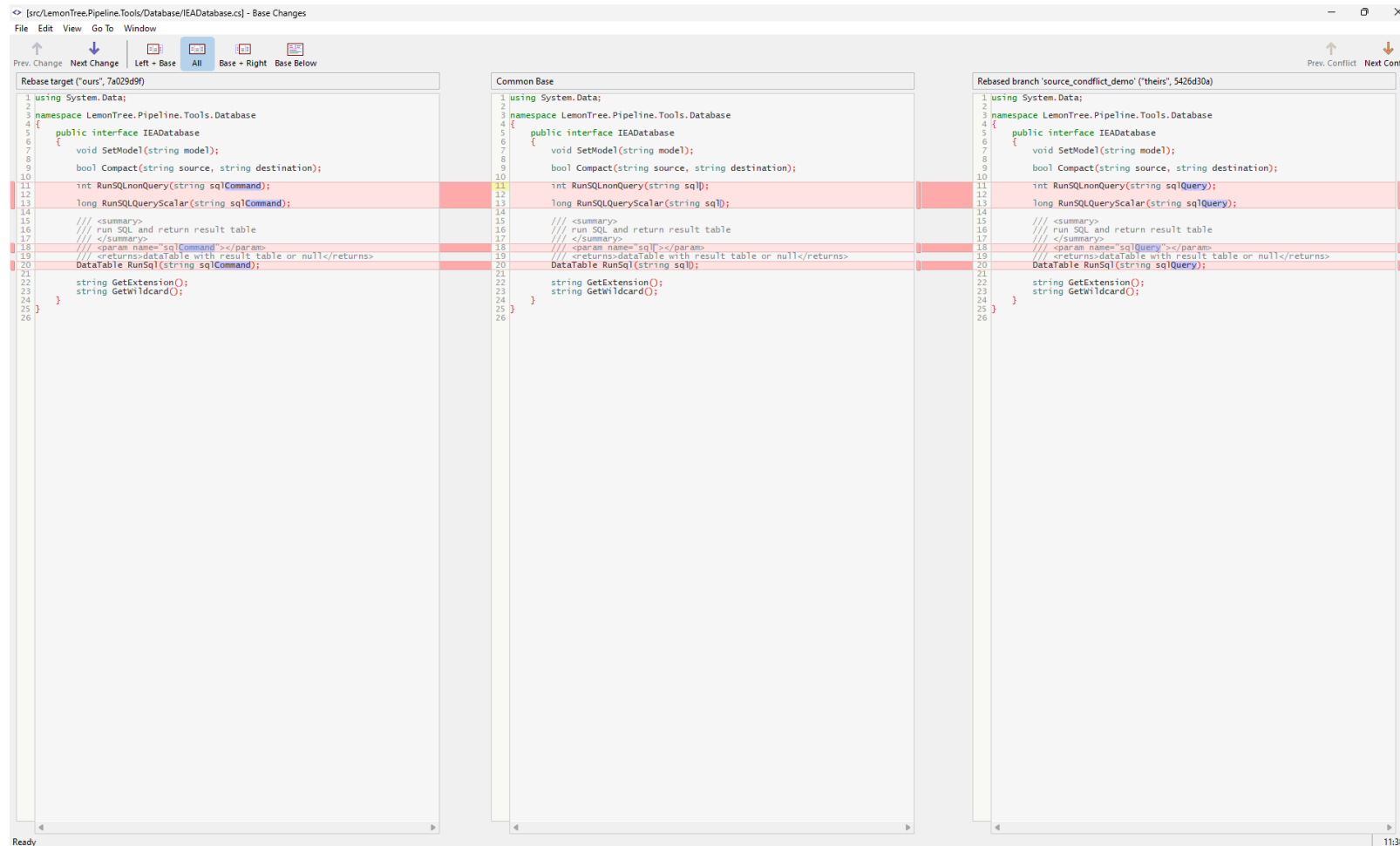
Merge view options

➤ Side by Side vs 3-Way view (Conflict Solver)

The screenshot shows the Conflict Solver in 3-Way view. It displays three panels: 'Rebased target' (main 'ours', 7620999), 'Working Tree', and 'Rebased branch' (source_conflict_demo 'theirs', 5426430). Red lines indicate conflicts between the 'Rebased target' and 'Working Tree' panels, and between the 'Working Tree' and 'Rebased branch' panels. The code is for a C# interface and implementation in a database tool.

The screenshot shows the Conflict Solver in Side by Side view. It displays two panels: 'Rebased target' (main 'ours', 7620999) and 'Rebased branch' (source_conflict_demo 'theirs', 5426430). The code is displayed side-by-side, with red lines indicating conflicts between the two versions. The code is for a C# interface and implementation in a database tool.

Base Changes



Rebase target ('ours', 7402949f)

```

1 using System.Data;
2
3 namespace LemonTree.Pipeline.Tools.Database
4 {
5     public interface IEADatabase
6     {
7         void SetModel(string model);
8         bool Compact(string source, string destination);
9
10        int RunSQLnonQuery(string sqlCommand);
11        long RunSQLQueryScalar(string sqlCommand);
12        // <summary>
13        // run SQL and return result table
14        // </summary>
15        // <param name="sqlCommand"></param>
16        // <returns>dataTable with result table or null</returns>
17        DataTable RunSql(string sqlCommand);
18        string GetExtension();
19        string GetWildcard();
20    }
21 }
22
23
24
25
26

```

Common Base

```

1 using System.Data;
2
3 namespace LemonTree.Pipeline.Tools.Database
4 {
5     public interface IEADatabase
6     {
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26

```

Rebased branch 'source_conflict_demo' ('theirs', 5426d30a)

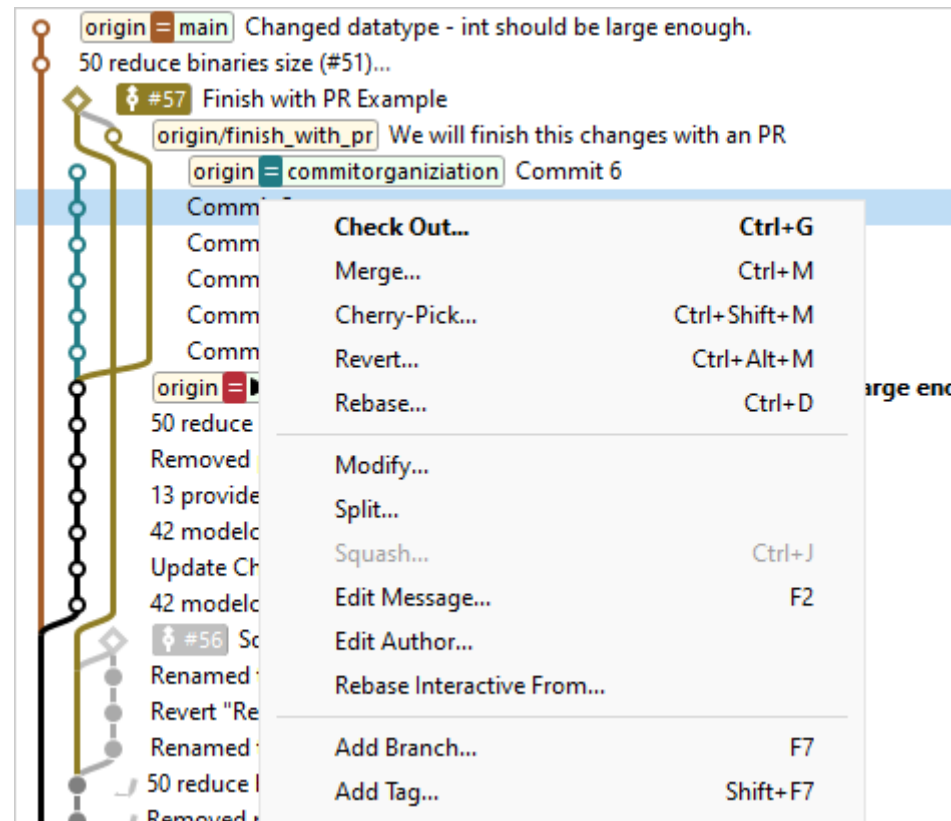
```

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3 namespace LemonTree.Pipeline.Tools.Database
4 {
5     public interface IEADatabase
6     {
7         void SetModel(string model);
8         bool Compact(string source, string destination);
9
10        int RunSQLnonQuery(string sqlQuery);
11        long RunSQLQueryScalar(string sqlQuery);
12        // <summary>
13        // run SQL and return result table
14        // </summary>
15        // <param name="sqlQuery"></param>
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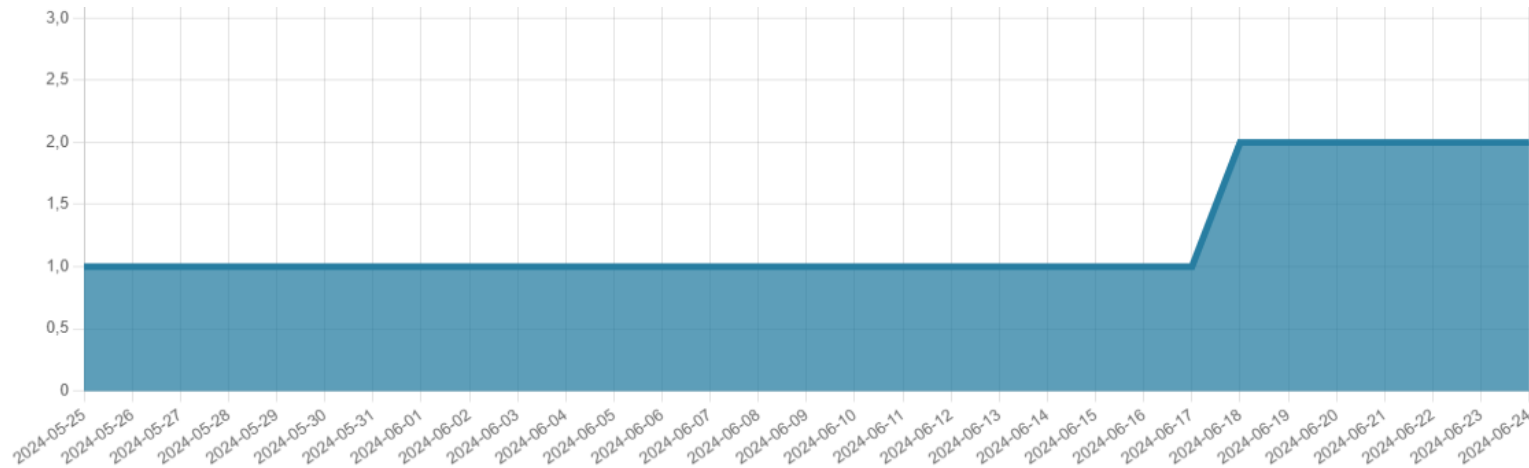
Clean History – Commit Organization

- Start early
- Amend
- Edit commit message
- Reorder
- Edit commit
- Split commit





On premise license server

> For our larger customers



License Overview

User	Product	Product Version	First Checkout	Last Checkout	Latest IP	Machine Count
daniel.siegl@lieberlieber.com	SmartGit	24.1 preview 6 #21053	2024-04-20	2024-06-20	172.17.0.1	3 
danielrc4wd@gmail.com	SmartGit	23.1.3 #20200	2024-06-18	2024-06-18	172.17.0.1	2 

Demo Process?

Setup SmartGit

Handling Branches

Merging

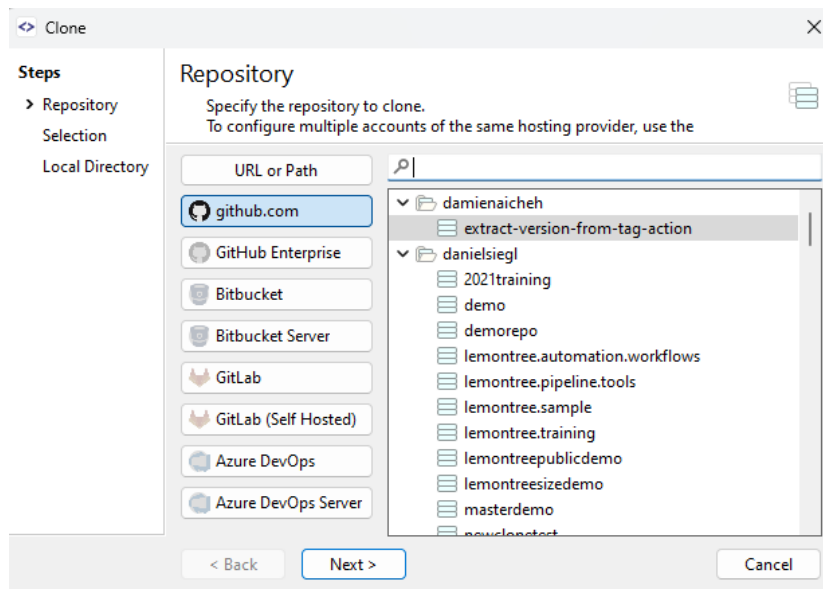
Commit Organization



DEMO

Outlook

- Full release of 24.1 later in 2024
- Today: <https://www.syntevo.com/smartgit/preview/>



```
MINGW64:/d/gittest/github.c x + v - □ ×  
$ cat .git/config  
[remote "origin"]  
  url = https://github.com/syntevo/private.git  
[credential]  
  helper =  
  helper = C:/Portable/SmartGit/bin/smartgit.exe --credential --logging  
$ git pull  
Already up to date.  
$ |
```

Summary

- SmartGit Standard Window
 - Reduces complexity
 - Makes it easy to work with mixed experienced Team
 - Loads of tools for your clean history goals
- Install SmartGit 23.1 or 24.1 Preview
- Start working with the Standard Window



Thank you!
Let's keep in touch!

<https://smartgit.userecho.com/>
smartgit@syntevo.com