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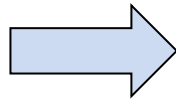
# Git GUI

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## Recap: Bug integration workflow

1. git checkout master
2. git pull (origin/master)
3. git checkout -b bug-9999-SomeReadableName
4. Change some code
5. git commit --am „Document your changes“
6. Repeat 4. + 5. until you are finished
7. Perform 1. + 2. again to update your master
8. git merge --no-ff bug-9999-SomeReadableName
9. Optional: Conflicts
  - git mergetool and solve the conflicts
  - git commit (Do not change the message here!)
10. git push

## Not a friend of console „hacking“?



### Use Git GUI

The screenshot shows the Git GUI application window. The title bar reads "Git Gui (MITK) D:/home/alex/GIT/src/MITK". The menu bar includes "Repository", "Edit", "Branch", "Commit", "Merge", "Remote", "Tools", and "Help". The "Current Branch" is "master".

The interface is divided into several sections:

- Unstaged Changes:** Lists files like "Modules/ToFHardware/ToFuchsCameraModel.cpp", "Modules/ToFHardware/ToFuchsCameraModel.h", "Modules/ToFHardware/files.cmake", "Modules/ToFHardware/mitkToFCameraPMDDevice.cpp", "Modules/ToFHardware/mitkToFuchsCalibrationFilter.cpp", and "Modules/ToFHardware/mitkToFuchsCalibrationFilter.h".
- Staged Changes (Will Commit):** Shows "Modules/ToFHardware/mitkToFCameraPMDDevice.h" checked for commit.
- Code Editor:** Displays the content of "Modules/ToFHardware/mitkToFCameraPMDDevice.h". The code includes copyright notices, include directives for "mitkToFHardwareExports.h", "mitkCommon.h", "mitkToFCameraDevice.h", "mitkToFCameraPMDController.h", "ToFuchsCameraModel.h", "itkObject.h", "itkObjectFactory.h", "itkMultiThreader.h", and "itkFastMutexLock.h". It also shows namespace declarations and class member declarations for "ToFCameraPMDController".
- Commit Message:** A text area for entering a commit message, with radio buttons for "New Commit" (selected) and "Amend Last Commit".
- Buttons:** "Rescan", "Stage Changed", "Sign Off", "Commit", and "Push" buttons are located at the bottom.

The status bar at the bottom left shows "Ready."



## Edit

Repository	Edit	Branch	Commit	Merge	Remote	Tools	Help
Undo	Ctrl-Z						
Redo	Ctrl-Y						
Cut	Ctrl-X						
Copy	Ctrl-C						
Paste	Ctrl-V						
Delete	Del						
Select All	Ctrl-A						
Options...							

Standard editing tools

Change settings like merge tool, encoding, ...

## Branch

Repository	Edit	Branch	Commit	Merge	Remote	Tools	Help
Create...		Create new local branch					
Checkout...		Checkout existing branch (local / remote)					
Rename...		Rename current branch					
Delete...		Delete branch (local / remote)					
Reset...		Resets the branch to the current HEAD					

# Commit

Repository	Edit	Branch	Commit	Merge	Remote	Tools	Help
✓ New Commit							
Amend Last Commit							
Rescan							
Stage To Commit							
Stage Changed Files To Commit							
Unstage From Commit							
Revert Changes							
Show Less Context							
Show More Context							
Sign Off							
Commit							

Choose form of commit

Rescan directory for modified files

Mark selected files for commit

Mark all changed files for commit

Unmark selected files from commit

Revert changes in selected file

Decrease / Increase amount of context shown +/- 1 line per change

Commit staged changes

## Merge

Repository Edit Branch Commit Merge Remote Tools Help

Local Merge...

Merge local branch into current branch

Abort Merge...



## Remote

Repository	Edit	Branch	Commit	Merge	Remote	Tools	Help	
Fetch from					▶			Get changes from remote repos.
Prune from					▶			Remove local branches removed from remote repository
Remove Remote					▶			Remove remote
Add...			Ctrl-A					Add new remote
Push...			Ctrl-P					Push current branch to remote
Delete Branch...								Delete branch from remote