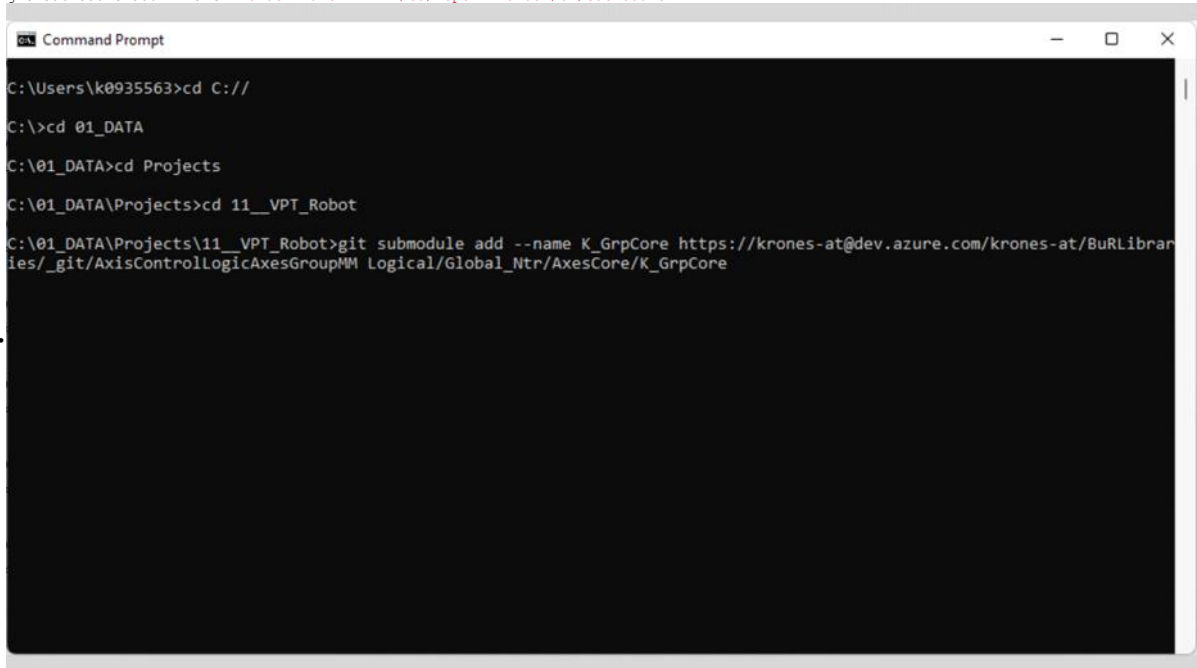


Links	
Krones Wiki	Git for Windows Getting Started - Software Engineering - KRONES Wiki (krones-group.com)
Git cheat sheet	Git submodules cheatsheet - GitHub
Git Book	Git - Submodule (git-scm.com) Git Submodules Flags

Steps

Add a Submodule

- `cd path/to/repo`
- `git submodule add --name <folder name> <link/to/Repo> <folder/of/submodule>`



```

C:\Users\k0935563>cd C://

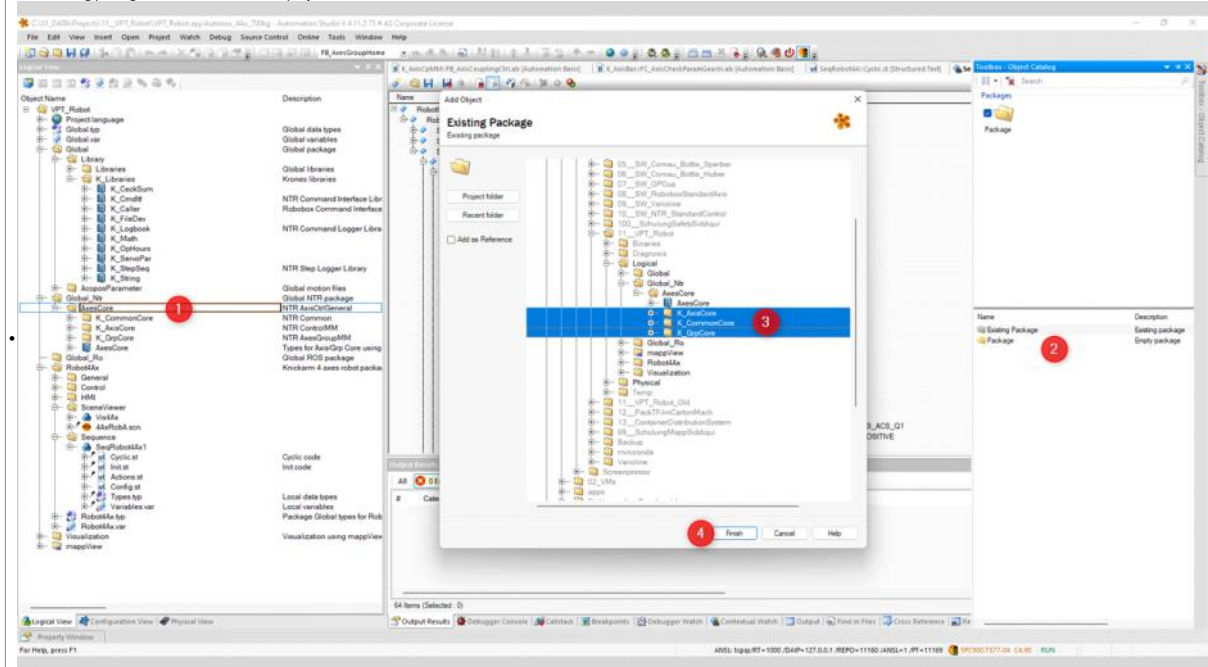
C:\>cd 01_DATA

C:\01_DATA>cd Projects

C:\01_DATA\Projects>cd 11_VPT_Robot

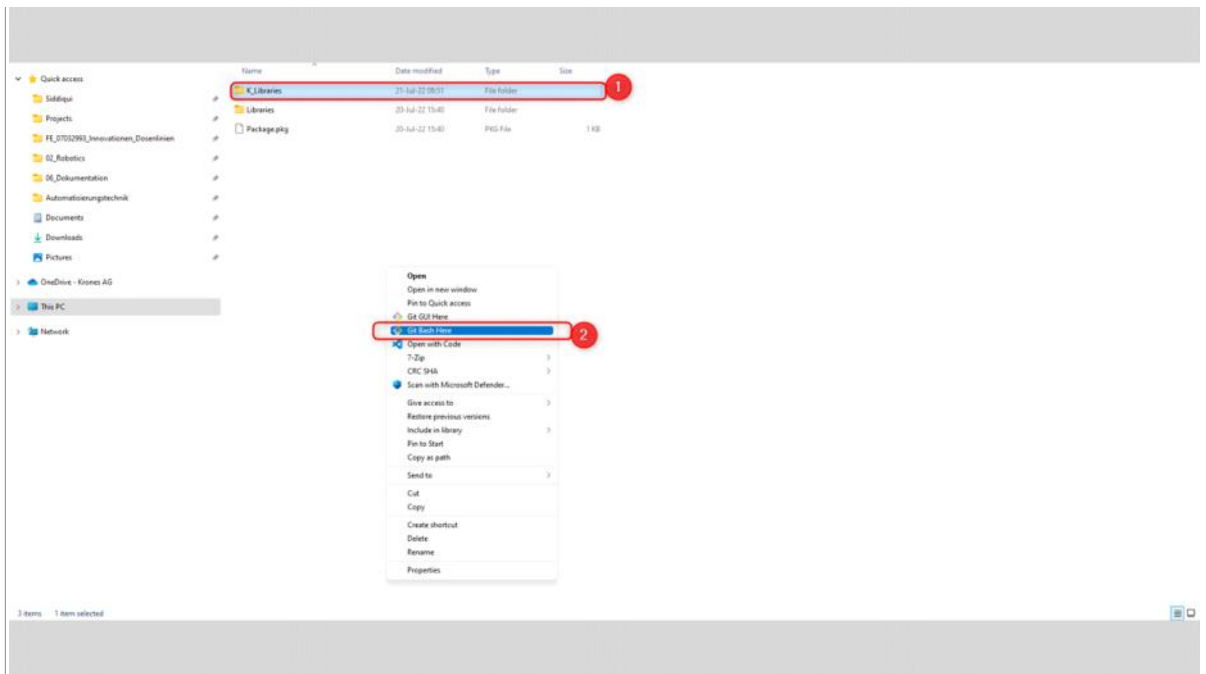
C:\01_DATA\Projects\11_VPT_Robot>git submodule add --name K_GrpCore https://krones-at@dev.azure.com/krones-at/BuRLibraries/_git/AxisControlLogicAxesGroupMM Logical/Global_Ntr/AxesCore/K_GrpCore
  
```

- Add existing packages to Automation Studio project:

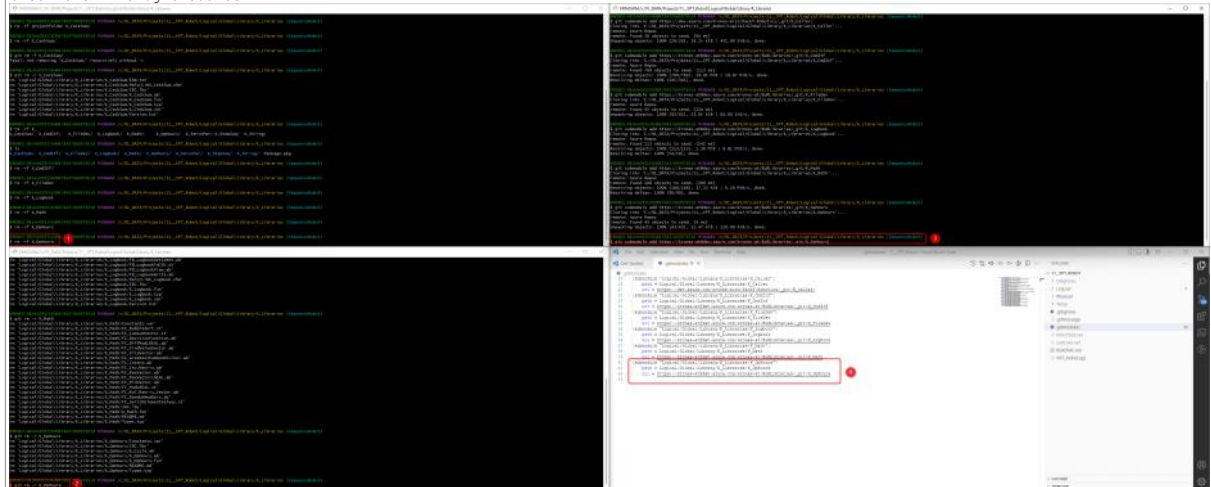


Re-Add a Submodule

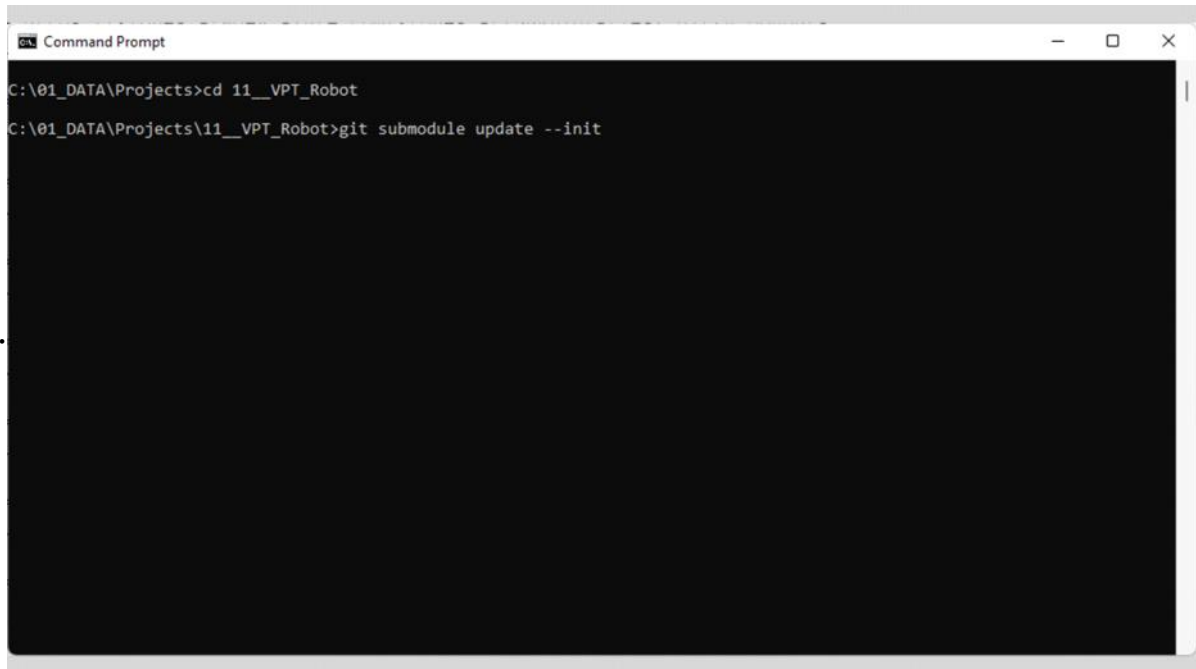
<https://stackoverflow.com/a/51247495>
Open Git Bash



```
rm -rf <submodule-name>
git rm -r <submodule-name>
git submodule add --force --name <submodule-name-optional> <submodule-repo-url> <submodule-path-optional>
Check the file .gitmodules
```



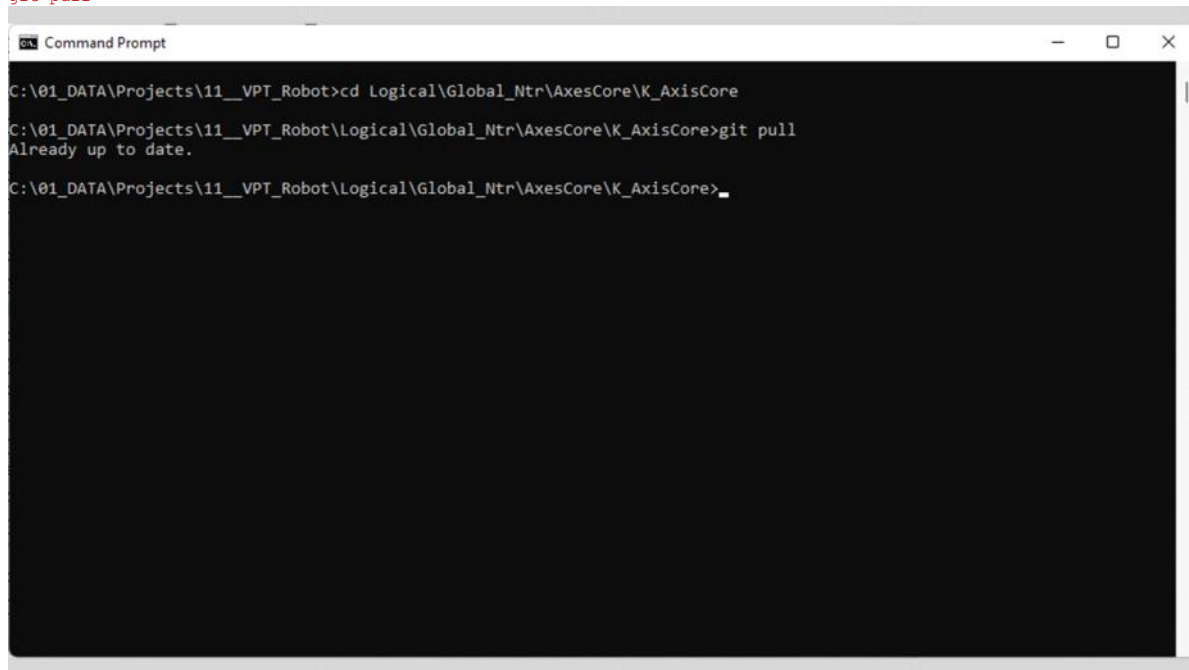
Renaming a Submodule	<ul style="list-style-type: none"> • If submodules folder is renamed/moved: <ul style="list-style-type: none"> • All references in <code>.git/config</code> are removed • <code>.gitmodules</code> file is removed • Submodules need to be added again (Link)
Delete a Submodule	<p>Remove the submodule entry from <code>.git/config</code> <code>git submodule deinit -f path/to/submodule</code></p> <p>Remove the submodule directory from the superproject's <code>.git/modules</code> directory <code>rm -rf path/to/submodule</code></p> <p>Remove the entry in <code>.gitmodules</code> and remove the submodule directory located at <code>path/to/submodule</code> <code>git rm -f path/to/submodule</code></p>
Pull Submodule from Repo	<ul style="list-style-type: none"> • Navigate to the submodules directory • <code>git submodule update --init</code>



```
Command Prompt
C:\01_DATA\Projects>cd 11_VPT_Robot
C:\01_DATA\Projects\11_VPT_Robot>git submodule update --init
```

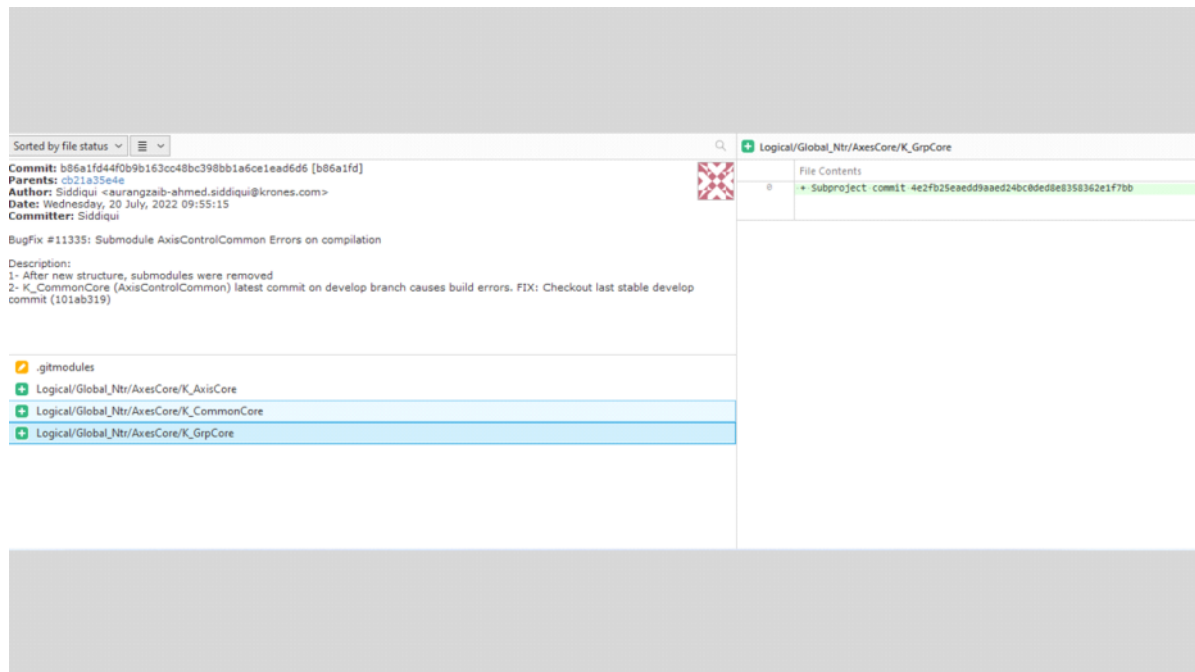
Update an existing submodule

Method 1
cd <path/to/submodule>
git pull



```
Command Prompt
C:\01_DATA\Projects\11_VPT_Robot>cd Logical\Global_Ntr\AxesCore\K_AxisCore
C:\01_DATA\Projects\11_VPT_Robot\Logical\Global_Ntr\AxesCore\K_AxisCore>git pull
Already up to date.
C:\01_DATA\Projects\11_VPT_Robot\Logical\Global_Ntr\AxesCore\K_AxisCore>_
```

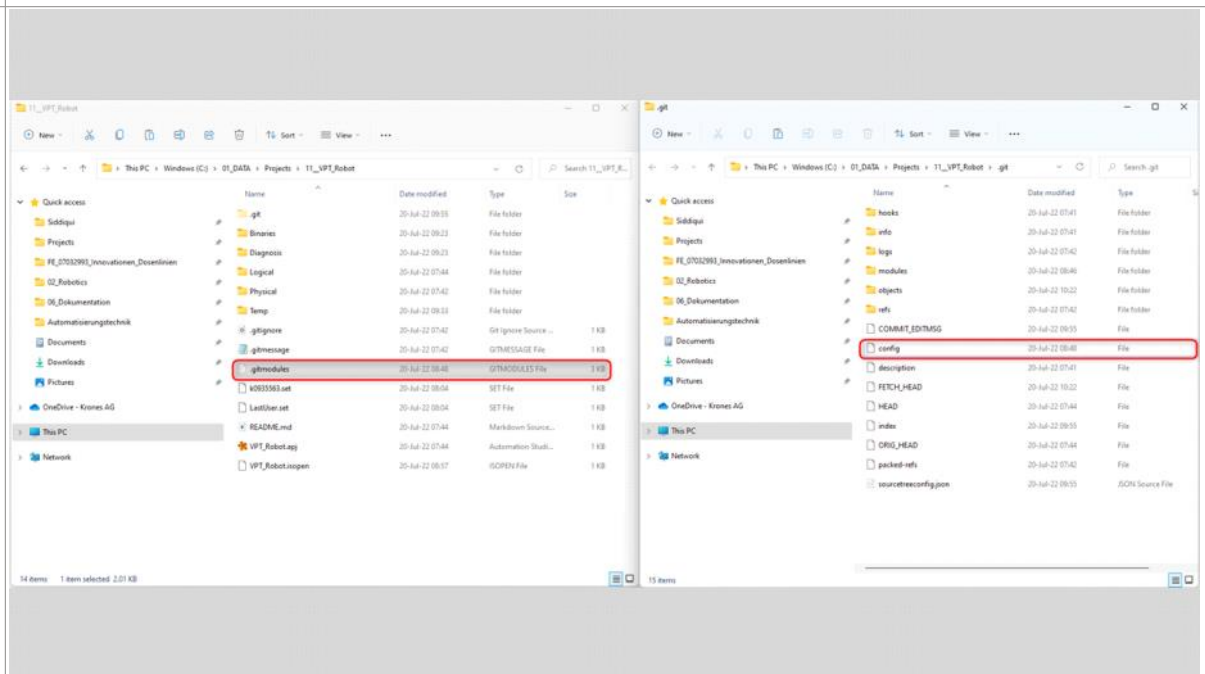
- Push the Hash files



Method 2: Update Git submodule to latest commit on origin

1. cd <projektPath/To/Submodule>
2. git submodule update --remote --merge
3. commit changes (Submodule Update) in projekt

Config Files



[illegible]

Project Transition

Tuesday, 8 November, 2022 10:10

<https://stackoverflow.com/a/10548919>

The screenshot displays the Azure DevOps web interface for a project named 'PackT-Robotics'. The left sidebar shows navigation options: Overview, Boards, Repos, Files, Commits, Pushes, Branches, Tags, Pull requests, Pipelines, Test Plans, and Artifacts. The main content area shows the 'Files' view for the 'VPT_Robot_Legacy_OG' repository. A table lists files and their commit history. A red arrow points from the 'Clone URL' field in the 'Import a Git repository' dialog to the 'Files' table. The dialog is open, showing the 'Repository type' as 'Git', the 'Clone URL' as 'azure.com/krones-misc/PackT-Robotics/_git/VPT_Robot_Legacy_OG', and the 'Username' as 'aurangzaib-ahmed.siddiqui@krones.com'. The 'Name' field is set to 'VPT_Robot_Legacy'. Below the dialog, the 'On its way!' status message is displayed, indicating that the import request is being processed. A red arrow points from the 'Processing request' status to the 'Importing' message.

Import a Git repository

Repository type: Git

Clone URL *: azure.com/krones-misc/PackT-Robotics/_git/VPT_Robot_Legacy_OG

☒ Requires Authentication

Username: aurangzaib-ahmed.siddiqui@krones.com

Password / PAT *:

Name *: VPT_Robot_Legacy

Files

Name ↑	Last change	Commits
GitHooks	Aug 9	d6191a68 BugFix #11472: When empty com
Logical	Jul 29	d9843ba2 Submodule update : Update K_R
Physical	Aug 1	15d3e368 Development #11502: AS Upgrade
.gitignore	Jul 29	c4d1858c Development #11469 #11470: Git
.gitmessage	Jun 8	1736be26 Setup: Git Commit Message Tem
.gitmodules	Jul 28	824b5a66 Development #11464: Change Ont
ML README.md	Jul 13	7d2bb6bb Development #11194: Refactor Co
VPT_Robot.apj	Aug 1	15d3e368 Development #11502: AS Upgrade

VPT_Robot

1. Preparation:

```
git config --global http.proxy http://http-proxy.krones-dev.krones-group.com:3128
git config user.name <username>
git config user.email <email@krones.com>
```

2. Cloning:

```
git clone https://krones-misc@dev.azure.com/krones-misc/PackT-Robotics/_git/VPT_Robot
cd VPT_Robot
git submodule update --init
```

3. Commit Template

```
git config commit.template .gitmessage
```

On its way!

Processing request

Importing https://krones-misc@dev.azure.com/krones-misc/PackT-Robotics/_git/VPT_Robot_Legacy_OG

We'll send you a notification when it's ready. For now, you can work on some other project or just take a moment to sit back, relax and enjoy your day.

VPT_Robot_Legacy

File Explorer view showing the directory structure of the VPT_Robot_Legacy project. The file VPT_Robot.apj is highlighted, and a context menu is open, showing options like Open, Open with Code, and Delete.

Git GUI View

The Git GUI shows the commit history for the VPT_Robot_Legacy project. The commit #12964, titled "Project Transition", is selected. The commit message is: "Development #12964: Project Transition". The commit is dated 8 Nov 2022.

Azure DevOps View

The Azure DevOps interface shows the commit #12964, titled "Project Transition", in the context of the PackT-Robotics Team. The commit is associated with the "Project Transition" task. The commit message is: "Development #12964: Project Transition".

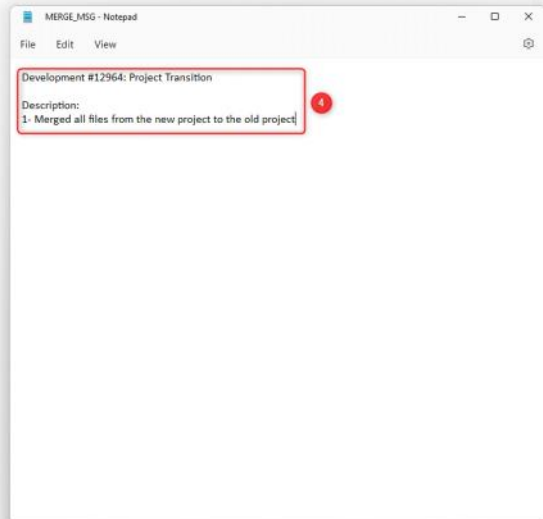

```

MINGW64/C:/01_DATA/Projects/VPT_Robot_Legacy
cd
KRONES-DEU+K09355638K76437660976518 MINGW64 /C:/01_DATA/Projects/VPT_Robot_Legacy (develop)
$ cd ..
cd
KRONES-DEU+K09355638K76437660976518 MINGW64 /C:/01_DATA/Projects
$ cd VPT_Robot_Legacy/

KRONES-DEU+K09355638K76437660976518 MINGW64 /C:/01_DATA/Projects/VPT_Robot_Legacy (develop)
$ git remote add VPT_Robot ../11_VPT_Robot
$ git fetch VPT_Robot --tags
remote: Enumerating objects: 1897, done.
remote: Counting objects: 100% (1897/1897), done.
remote: Compressing objects: 100% (1153/1153), done.
remote: Total 1897 (delta 623), reused 1887 (delta 609), pack-reused 0
Receiving objects: 100% (1897/1897), 27.97 MiB | 41.33 MiB/s, done.
Resolving deltas: 100% (623/623), done.
From ../11_VPT_Robot
+ [new branch] develop -> VPT_Robot/develop

KRONES-DEU+K09355638K76437660976518 MINGW64 /C:/01_DATA/Projects/VPT_Robot_Legacy (develop)
$ git merge --all --no-commit --no-stat --no-ff VPT_Robot/develop
hint: waiting for your editor to close the file... unix2dos: converting file C:/01_DATA/Projects/VPT_Robot_Legacy/.git/MERGE_MSG to DOS format...

```



```

MINGW64/C:/01_DATA/Projects/VPT_Robot_Legacy
Cloning into 'C:/01_DATA/Projects/VPT_Robot_Legacy/Logical/Global_Ntr/BusDiagnosis/K_B01agvw'...
Cloning into 'C:/01_DATA/Projects/VPT_Robot_Legacy/Logical/Global_Ntr/Dhw/K_Dmnm'...
Cloning into 'C:/01_DATA/Projects/VPT_Robot_Legacy/Logical/Global_Ntr/Dhw/K_Dmnm'...
Cloning into 'C:/01_DATA/Projects/VPT_Robot_Legacy/Logical/Global_Ntr/IO/K_I001ag'...
Cloning into 'C:/01_DATA/Projects/VPT_Robot_Legacy/Logical/Global_Ntr/P25/K_ETHNET'...
Cloning into 'C:/01_DATA/Projects/VPT_Robot_Legacy/Logical/Global_Ntr/PLC_Logger/K_Logbook'...
Cloning into 'C:/01_DATA/Projects/VPT_Robot_Legacy/Logical/Global_Ntr/PLC_Plugin/K_Cecksum'...
Cloning into 'C:/01_DATA/Projects/VPT_Robot_Legacy/Logical/Global_Ntr/PLC_Plugin/K_Msgaux'...
Cloning into 'C:/01_DATA/Projects/VPT_Robot_Legacy/Logical/Global_Ntr/PLC_Plugin/K_Msgw'...
Cloning into 'C:/01_DATA/Projects/VPT_Robot_Legacy/Logical/Global_Ntr/PLC_Plugin/K_PlcPlug'...
Cloning into 'C:/01_DATA/Projects/VPT_Robot_Legacy/Logical/Global_Ntr/PLC_Plugin/K_Tfnew'...
Cloning into 'C:/01_DATA/Projects/VPT_Robot_Legacy/Logical/Global_Ntr/PLC_Plugin/K_Watchdog'...
Cloning into 'C:/01_DATA/Projects/VPT_Robot_Legacy/Logical/Global_Ntr/Parameter/K_Param'...
Cloning into 'C:/01_DATA/Projects/VPT_Robot_Legacy/Logical/Global_Ntr/Parameter/K_Type'...
Cloning into 'C:/01_DATA/Projects/VPT_Robot_Legacy/Logical/Global_Ntr/SysInfo/K_Package_Esw'...
Cloning into 'C:/01_DATA/Projects/VPT_Robot_Legacy/Logical/Global_Ro/Common/K_Caller'...
Submodule path 'Logical/Global/Common/program/kinx': checked out '48898a2c94ab0fc17427a8f67b8ad98207db9f61'
Submodule path 'Logical/Global/Common/program/stdaxis': checked out '6e766ad21ba545c482f9053c01da1da79752809'
Submodule path 'Logical/Global/Databus/K_Common': checked out 'f787a1bb9b39a04e9e9806c348766dc5ac3'
Submodule path 'Logical/Global/Library/K_Libraries/K_Btw': checked out 'a8861a5bb28884c41def5227868763f098854dal'
Submodule path 'Logical/Global/Library/K_Libraries/K_Cndtff': checked out 'b08ede20f35df44c5c28350a74f6f9397ae193e'
Submodule path 'Logical/Global/Library/K_Libraries/K_Datamnc': checked out '483ac50078b3f4b5cf8fc4c4f59ac28e22391e'
Submodule path 'Logical/Global/Library/K_Libraries/K_Driversg': checked out '09566f659cb173f402ae4aeb248fe6a6f6b46c0'
Submodule path 'Logical/Global/Library/K_Libraries/K_Filedev': checked out 'df88bde07c4ac9e7c298a3f40c811a9594f5eb'
Submodule path 'Logical/Global/Library/K_Libraries/K_Path': checked out 'ac67f06cb31f200167da68b5f03b2e3bcb2c7'
Submodule path 'Logical/Global/Library/K_Libraries/K_Opnmrs': checked out 'b13461b0abf86d428f9d0da502c42446b1c594'
Submodule path 'Logical/Global/Library/K_Libraries/K_Reckan': checked out 'cb948c1f588603198d20fd01b0a4212d3e26b'
Submodule path 'Logical/Global/Library/K_Libraries/K_Stepsg': checked out 'd150a0f556320204cf00071cf80c7f8d745'
Submodule path 'Logical/Global_Ntr/Axisctr/General/AxesGroupm': checked out '0f7379038278a011b6dc3e12c4a9d2de8e5c1'
Submodule path 'Logical/Global_Ntr/Axisctr/General/Axiscontrolm': checked out '656ae0fde6029e64f577309ac2801dada69670'
Submodule path 'Logical/Global_Ntr/Axisctr/General/Common': checked out '61aacba060af942f8f15309a857acbf61ab29'
Submodule path 'Logical/Global_Ntr/Axisctr/General/Databistributor': checked out '875863b03f1cd6c1d135435bebe292544c86445'
Submodule path 'Logical/Global_Ntr/Axisctr/General/HMI_Wv': checked out '4011230d0f7353763715f47286813f68b1224e50'
Submodule path 'Logical/Global_Ntr/Axisctr/General/K_D0D': checked out '96c170dad109011215cc88cd09815381e7e38217'
Submodule path 'Logical/Global_Ntr/Axisctr/General/K_D0D_Wv': checked out '45680d73166e6f3862018b70ecf5204c25621'
Submodule path 'Logical/Global_Ntr/Axisctr/General/K_Kncm': checked out 'ece98947f6d2d961745efdad249ca9aef055cfc1'
From https://dev.azure.com/Kronos-AT/BulkLibraries/.git/ K_SPLLCOM
+ branch 39bc916419370670b587a275d62b05673c01437 -> FETCH_HEAD
Submodule path 'Logical/Global_Ntr/Axisctr/General/K_SPLLCOM': checked out '39bc916419370670b587a275d62b05673c01437'
Submodule path 'Logical/Global_Ntr/Axisctr/General/K_ServoPwm': checked out 'e80886e9523929eef9e6279400586143b66b494'
Submodule path 'Logical/Global_Ntr/Axisctr/General/K_ServoPar': checked out '088055bdf78c74465c782a7b08044ab780396c'
Submodule path 'Logical/Global_Ntr/BusDiagnosis/K_B01agvw': checked out 'a0962a764cc0c10e7a463041c852a03022e911'
Submodule path 'Logical/Global_Ntr/Dhw/K_Dmnm': checked out 'cd30c5ababbdc81cd406765d209714a20b6e6e1e3'
Submodule path 'Logical/Global_Ntr/IO/K_I001ag': checked out 'c4ee0548c9c4703d7c93575c6a28f4b0d0367d'
Submodule path 'Logical/Global_Ntr/P25/K_ETHNET': checked out '225efec1440952e832f223261044904a9188642'
Submodule path 'Logical/Global_Ntr/PLC_Logger/K_Logbook': checked out '608e5771950c542d1791508037541cc384a888e'
Submodule path 'Logical/Global_Ntr/PLC_Plugin/K_Cecksum': checked out '795631deeb8a8d89cf6a28ebd9b99f9acbc2e430'
Submodule path 'Logical/Global_Ntr/PLC_Plugin/K_Msgaux': checked out '48ca741e17a7de139a4496c7c3e41027793df9e9'
Submodule path 'Logical/Global_Ntr/PLC_Plugin/K_Msgw': checked out '5ced234446f8e010d0b375f01ecf7af446004c41'
Submodule path 'Logical/Global_Ntr/PLC_Plugin/K_PlcPlug': checked out '450709b7cf67c23862a2edf70ba0912314930fe'
Submodule path 'Logical/Global_Ntr/PLC_Plugin/K_Tfnew': checked out '1d97b9359fa4574d6fe7b970397e82a4ee7640b9'
Submodule path 'Logical/Global_Ntr/PLC_Plugin/K_Watchdog': checked out '5932a568679085371303e8d2b8a2c102285af091'
Submodule path 'Logical/Global_Ntr/Parameter/K_Param': checked out '982593f5706c2ab0b84efc11f80221f838f4de'
Submodule path 'Logical/Global_Ntr/Parameter/K_Type': checked out '52a2ec1231f95275bed953f52a066c5a5978c3b'
Submodule path 'Logical/Global_Ntr/SysInfo/K_Package_Esw': checked out 'ff6e38c376d3d8f1e2aa28e59d253133809c964b'
Submodule path 'Logical/Global_Ro/Common/K_Caller': checked out '6a2f09d9556725fa8a069532bdc3a7d4c894d1c'
- Submodule update: Done
- SetRevision: setting up ...
- SetRevision: Done

C:/01_DATA/Projects/VPT_Robot_Legacy>set f2=c:/01_DATA/Projects/VPT_Robot_Legacy/

C:/01_DATA/Projects/VPT_Robot_Legacy>cd C:/01_DATA/Projects/VPT_Robot_Legacy/SetRev.vbs C:/01_DATA/Projects/VPT_Robot_Legacy/

KRONES-DEU+K09355638K76437660976518 MINGW64 /C:/01_DATA/Projects/VPT_Robot_Legacy (develop)
$ git remote remove VPT_Robot

```


Azure DevOps | kronos-misc / PackT-Robotics / Repos / Commits

Commits

Graph | Commit

Complete Commit History

Development #12964: Project Transition
Bugfix: Wrong LinkSceneViewer function call
Setup #12874: Submodule Update
Setup #12874: Set Axis to half Simulated, to avoid Bug in AxisCrtMM
Setup #12874: Submodule updates
Setup #12874: Fix for 3 submodules
Setup #12886: Add Robot Task and Configuration
Setup #12874: Add Submodules Adjust Mapp View
Setup Global_Nbr Submodules
Setup: Deletion before Submodule add
Setup: Submodule Update StdAxis/KinXY
Setup: Add Global Submodules and .sw Config / Add Project Settings
Setup: Initial Project add, without any submodules
Added README.md
Development #12964: Project Transition
Merge branch 'githubhook' into develop
Bugfix #11472: When empty commit hash, update Submodule
Development #11472: AS upgrade (V4.11.2.73 to V4.11.3.51)
Bugfix #11472: When empty commit hash, update Submodule
Development #11469 #11470: Githubhook - Update Buil Ignore-Warning-List
Merge branch 'RecMan' into develop
Submodule update: Update K, RecMan submodule

Files

Contents | History

Correct Submodules

Name	Last change	Commits
GitHooks	Oct 28	2ce57285 Setup: Initial Project add, without any submodules Christoph Gruber
Logical	Friday	592e7c8a Bugfix: Wrong LinkSceneViewer function call Christoph Gruber
Physical	Thursday	3f187753 Setup #12874: Set Axis to half Simulated, to avoid Bug in AxisCrtMM Christoph Gruber
.gitignore	Oct 28	2ce57285 Setup: Initial Project add, without any submodules Christoph Gruber
.gitmessage	Oct 26	2ce57285 Setup: Initial Project add, without any submodules Christoph Gruber
.gitmodules	Thursday	76589763 Setup #12874: Submodule updates Christoph Gruber
ML README.md	Oct 28	22ea58f7 Added README.md Christoph Gruber
setRevision.bat	Oct 28	2ce57285 Setup: Initial Project add, without any submodules Christoph Gruber
VPT_Robot.apj	Wednesday	b7a1b673 Setup #12874: Add Submodules Adjust Mapp View Christoph Gruber

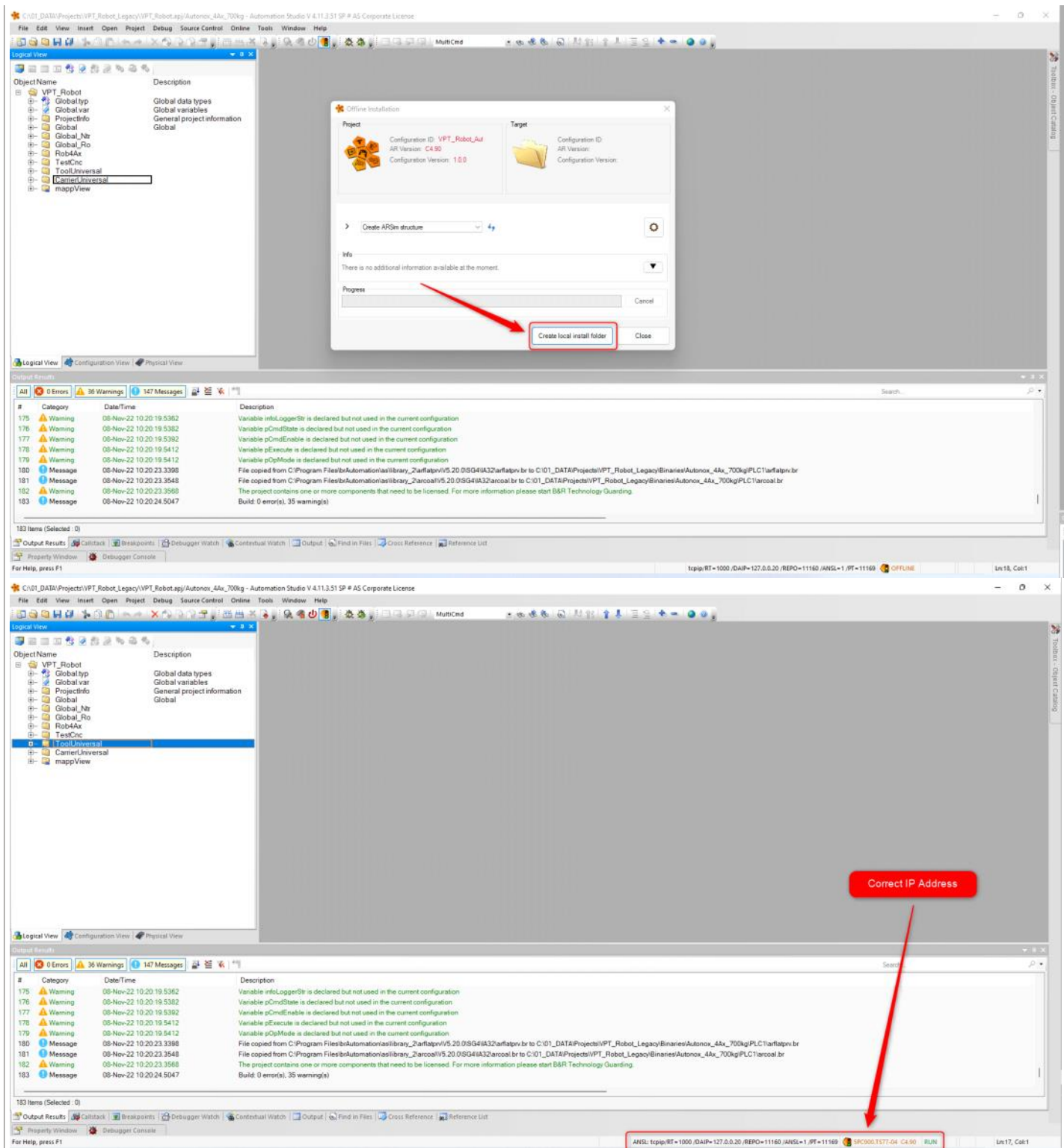
SubKinematicModule

1. Krones Proxy

```
git config --global http.proxy: http://http-proxy.krones-dev.krones-group.com:3128
```

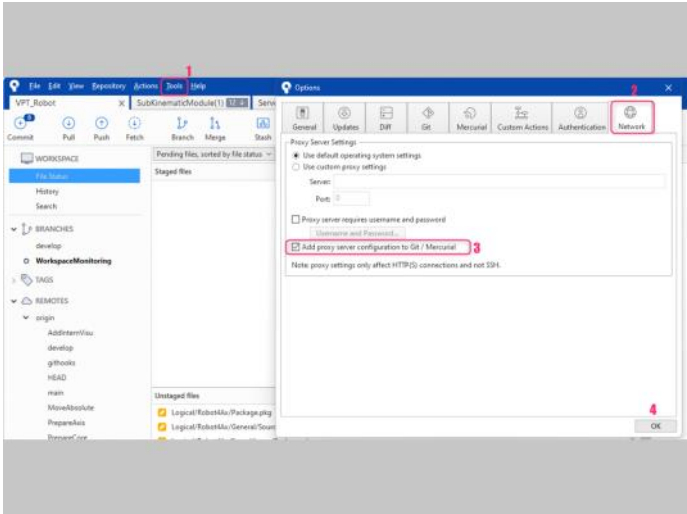
2. Git Hooks

```
git config --global core.hooksPath: GitHooks
```



Failed to connect to dev.azure. Error 443

[Link](#)



unable to access
https://dev.azure.com/krones-at/PackTFilmCartonMach/_git/,
Failed to connect

Description:

```
MINGW64/c/Raja/Robotics/1-SW/2-Rosenheim/2-Test/SubKinematicModule
MINGW64 /C:/Raja/Robotics/1-SW/2-Rosenheim/2-Test/SubKinematicModule (Feature_kinematicXY_siddiqui)
$ git fetch --prune
fatal: unable to access 'https://dev.azure.com/krones-at/PackTFilmCartonMach/_git/SubKinematicModule/': Failed to connect to www.google.com port 80 after 21106 ms
! Time out
```

Solution:

- 1. Go to global git config
- 2. Change proxy to <http://http-proxy.krones-deu.krones-group.com:3128>

```
1 [user]
2   name = Raja Moktafi
3   email = raja.moktafi@krones.com
4 [commit]
5   template = .gitmessage
6 [core]
7   hooksPath = Githooks
8 [difftool "sourcetree"]
9   cmd = "" \"$LOCAL\" \"$REMOTE\"
10 [mergetool "sourcetree"]
11   cmd = ""
12   trustExitCode = true
13 [http]
14   proxy = http://http-proxy.krones-deu.krones-group.com:3128
15
```

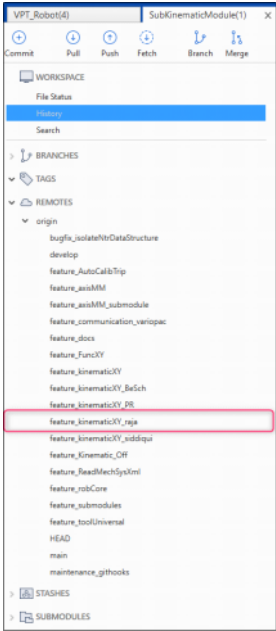
Update origin branches on SourceTree

Option 1

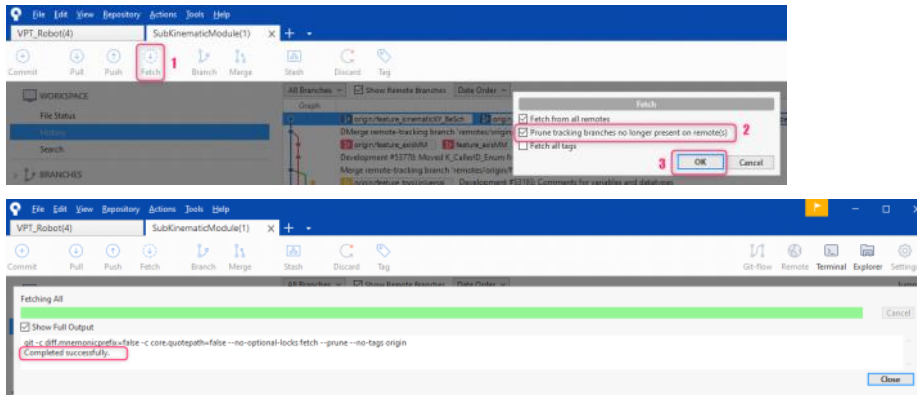
→ With Terminal

```
MINGW64/c/Raja/Robotics/Autonom/5W/Rosenheim/SubKinematicModule
$ git fetch --prune
From https://dev.azure.com/krones-at/PackTFilmCartonMach/_git/SubKinematicModule
 * [deleted]         (none)       -> origin/feature_autoCalbTrip
 * [deleted]         (none)       -> origin/feature_autoMM_P8
 * [new branch]      feature_kinematicXY_raja -> origin/feature_kinematicXY_raja
MINGW64/c/Raja/Robotics/Autonom/5W/Rosenheim/SubKinematicModule (Feature_kinematicXY_siddiqui)
$
```

→ In SourceTree



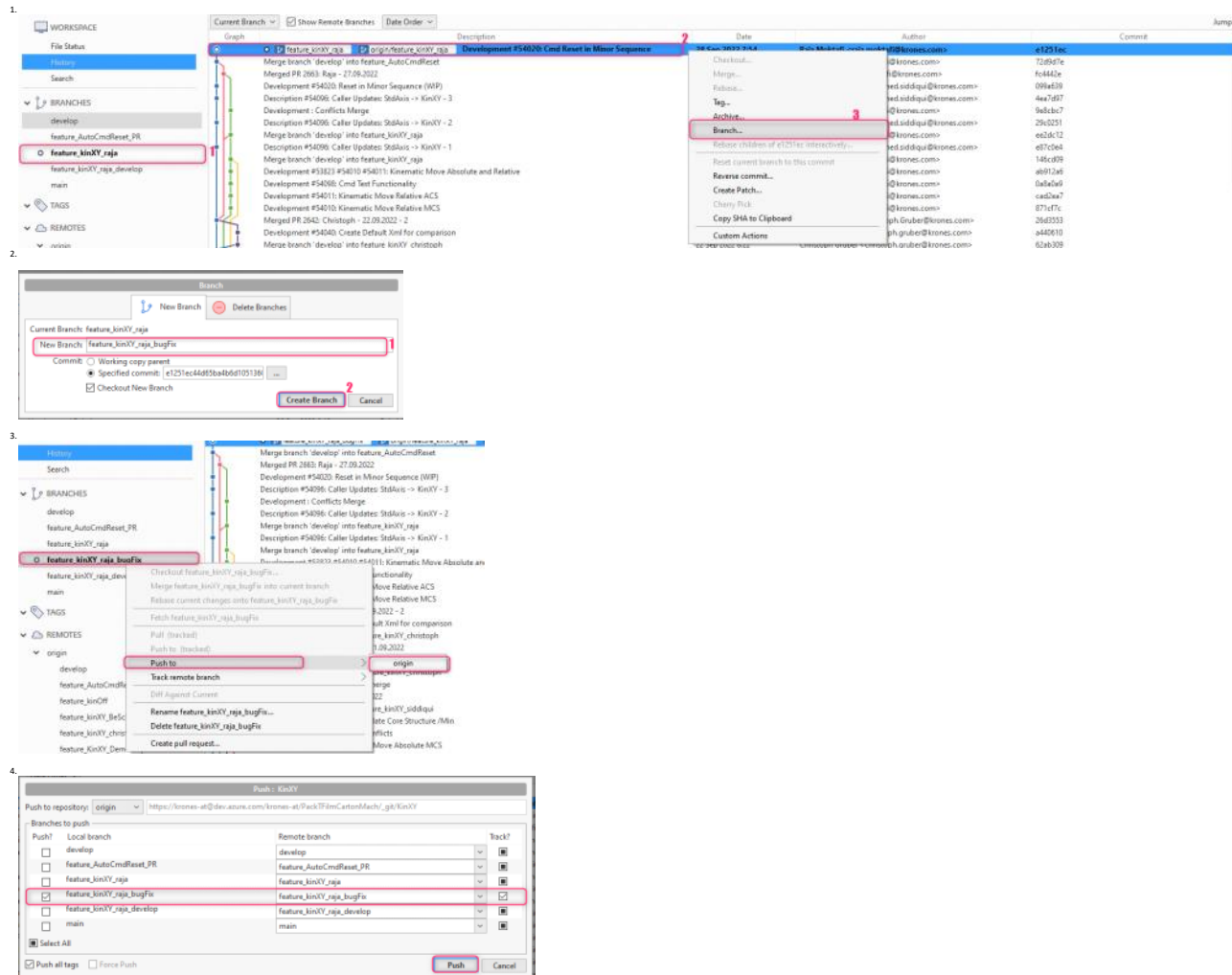
Option 2



Undo last commit from a remote git repo

1. git reset HEAD^ (Undo last commit locally)
2. git push origin +HEAD (force push the local commit which was reverted to the remote git repository)

Create branch from specific commit



Git Branch Workflow

Thursday, 2 June, 2022 10:53

- GitFlow ([Link](#))
- GitFlow vs Trunk-Based Software Development ([Link](#))
- Git Branch Concept



feature-name


- Set branch as default:

Branch	Commit	Author	Authored Date	Behind Ahead	Status	Pull Req...
develop	88dcba07	Siddiqui	Aug 9	0 49		
main	6c42d466	Raja Moktafi	Jun 10			
MoveAbsolute	2fd95cbb	Raja Moktafi	Jul 1	0 5		
SequenceSingleAxis	62f15b62	Raja Moktafi	Jul 1	0 8		
StandardCore	ec1af861	Christoph Gruber	Jul 13	0 30		
Submodules	15d3e368	Siddiqui	Aug 1	0 47		
WorkspaceMonitoring	67888d68	Raja Moktafi	Sep 5	0 58		

- + New branch
- New pull request
- Delete branch
- View files
- View history
- Compare branches
- Set as compare branch
- Set as default branch
- Lock
- Branch policies
- Branch security

Commit Message

Mittwoch, 8. Juni 2022 07:21

Add Template		
Local template valid in 1 project	git config commit.template /path/to/file	
Global template:	git config --global commit.template 01_DATA/../../gitmessage /path/to/file	
Style		
relative path in 01_DATA	01_DATA/../../gitmessage /path/to/file	

Tool

Monday, 18 July, 2022 10:30

Markdown Tools:

[StackEdit – In-browser Markdown editor](#)

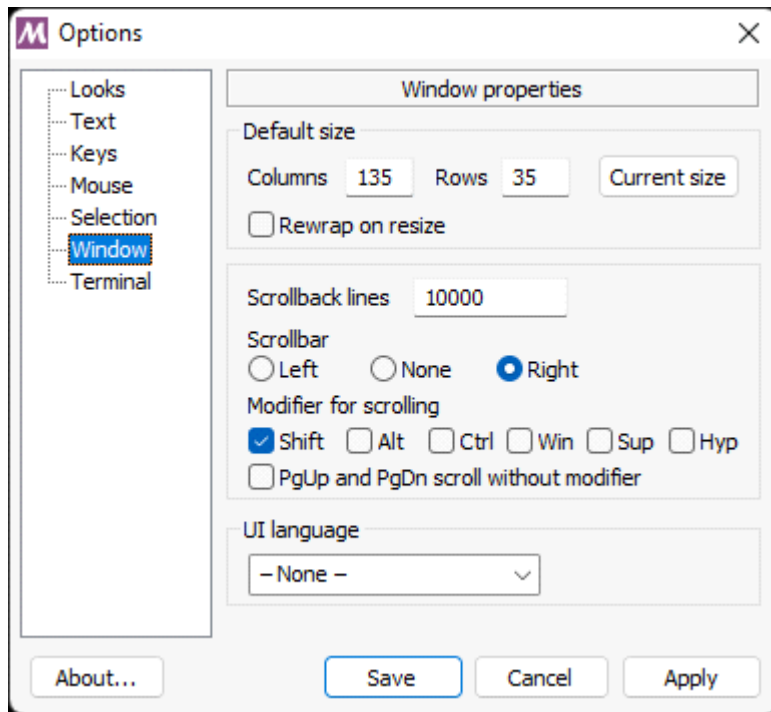
Git UI

- TortoiseGIt
- VS Code
- Source Tree

Readme

Monday, 25 July, 2022 11:12

Windows Size for readme images = 135x35



Pull Request with Submodule

Wednesday, 28 September, 2022 09:15

Step 1	KinXY (Submodule)	<input type="checkbox"/> Fetch and pull develop into your_branch
Step 2	VPT_Robot (Project)	<input type="checkbox"/> Fetch and pull feature_kinematicXY into your_branch
Step 3	KinXY	<input type="checkbox"/> Push all changes from your_branch
Step 4	VPT_Robot	<input type="checkbox"/> Commit and push the new Hash from KinXY
Step 5	KinXY	<input type="checkbox"/> Create a Pull Request
Step 6	KinXY	<input type="checkbox"/> Wait for Pull Request Approval
		<input type="checkbox"/> Fetch and pull develop into your_branch
Step 7	VPT_Robot	<input type="checkbox"/> Commit and push the new Hash from KinXY
Step 8	VPT_Robot	<input type="checkbox"/> Create a Pull Request
Step 9	VPT_Robot	<input type="checkbox"/> Wait Pull Request approve
		<input type="checkbox"/> Fetch and pull feature_kinematicXY into your_branch

Git Error + Cmd Line

Wednesday, 2 November 2022 1:54 pm

Error	Solution
Another git process seems to be running in this repository Please make sure all processes are terminated then try again. If it still fails, a git process may have crashed in this repository earlier: remove the file manually to continue.	Link: https://stackoverflow.com/a/39860852 <ol style="list-style-type: none">1. Go to Project directory2. <code>rm -f .git/index.lock</code>3. If step 2 didn't work<ol style="list-style-type: none">1. <code>taskkill /F /IM git.exe</code> (Kill all git.exe)2. <code>rm -f .git/index.lock</code>
Commit done , not pushed to any branch, nor remote nor local.	<ol style="list-style-type: none">1. <code>git reflog</code> (get hash number of commit)2. <code>git checkout hash_number</code>3. <code>git checkout -b new_branch_name</code> (create new branch with the hash_number)4. Merge new_branch_name to old_branch5. Delete new_branch_name

Cmd Line	
Rename local & remote branch	Link: https://stackoverflow.com/a/52800794 <ol style="list-style-type: none">1. <code>git branch -m old_branch new_branch</code> (Rename your local branch)2. <code>git push origin :old-name new-name</code> (Delete the old-name remote branch and push the new-name local branch)3. <code>git push origin -u new-name</code> (Reset the upstream branch for the new-name local branch)
Delete Commit from remote	<ol style="list-style-type: none">1. <code>git reset --hard HEAD~n</code> (n number of consecutive commits) => Delete commits locally2. Or <code>git reset --hard <hash></code>3. <code>git push origin HEAD --force</code> => Delete the commits from remote

Git Hooks + Submodule update

Mittwoch, 11. Januar 2023 09:16

Pre-commit	
Link to git website	https://git-scm.com/docs/ghooks#:~:text=git%20am%2Cpre%2Dcommit,This%20hook%20is
Description	
Usage	Until now (11.01.2023) this hook only saves the actual commit hash to a file Using this for submodule update has to be checked (Effect on commits)
Post-commit	
Link to git website	https://git-scm.com/docs/ghooks#:~:text=one%20is%20found%2Cpost%2Dcommit,This%20hook%20is

Git config submodule.recurse	
Link to website	https://git-scm.com/docs/git-config#:~:text=7%5D%20for%20details%2Csubmodule.recurse,A%20boolean%20indicating
Description	This setting enables the --recurse-submodules flag for every command which can use it (for further description visit the link above)
Usage	Until now (11.01.2023) not used effect on init has to be checked
Problem merge with conflict	When a mergeconflict occurs, the post merge hook will not be executed. Now the submodules wont be updated post merge A solution may be that the post commit hook updates the submodules aswell

Git Commit Amend

Wednesday, 1 February, 2023 08:51

[How to change a Git commit message after a push \(educative.io\)](#)