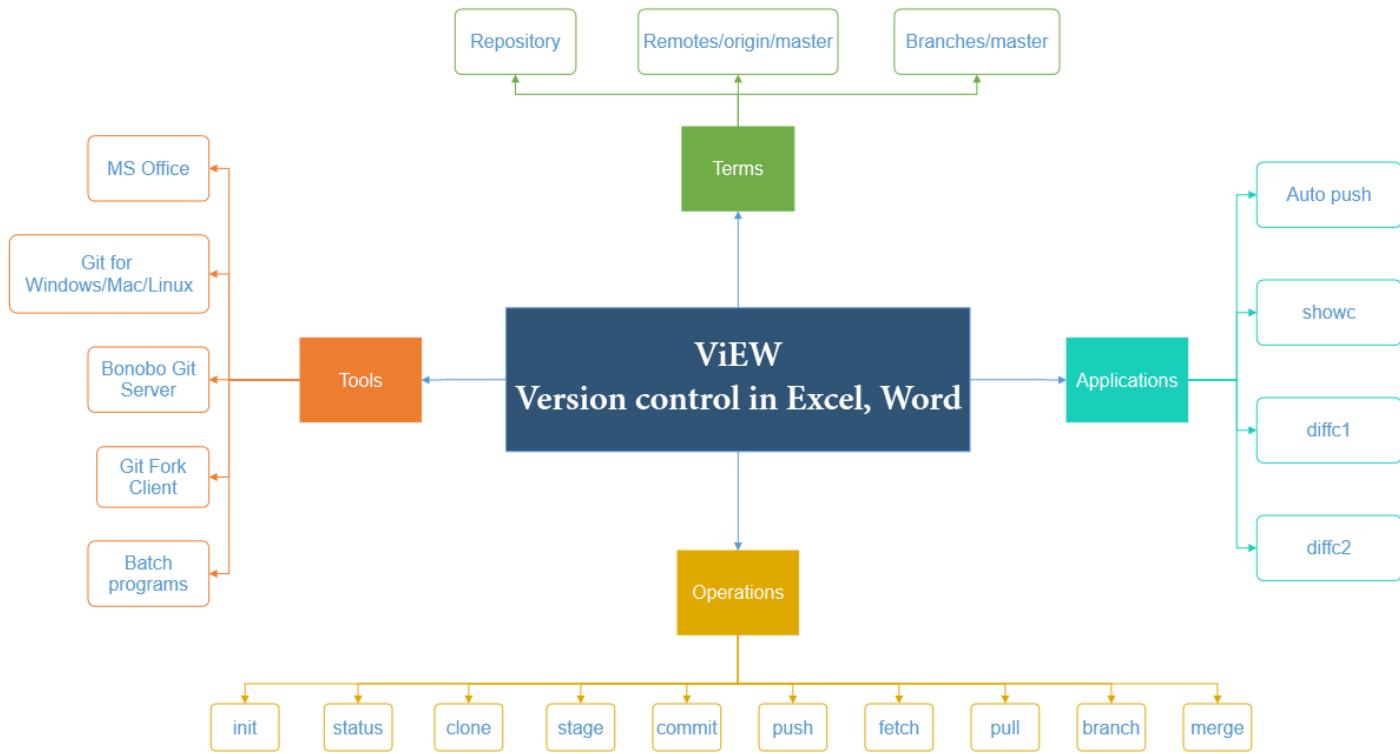


ViEW (Version control system in Excel, Word)

Version: 0.1

A software tool to use Git in Office | Excel, Word

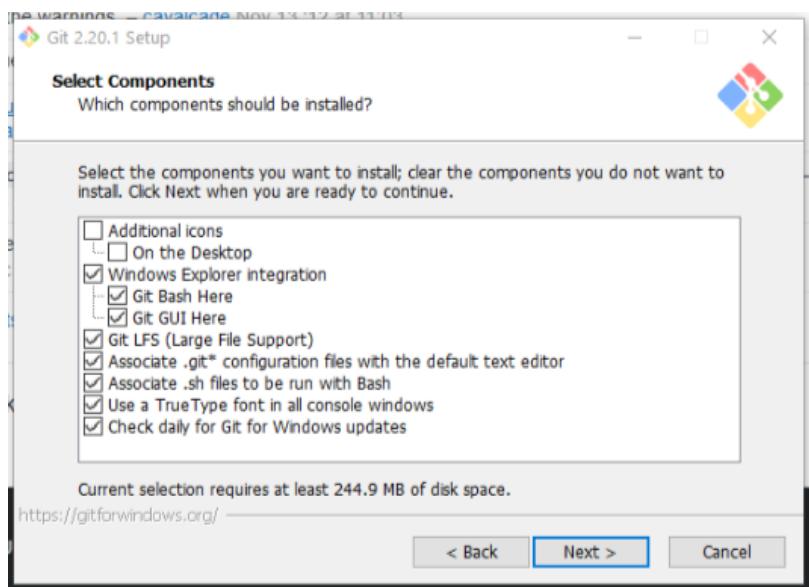


Tools Installation

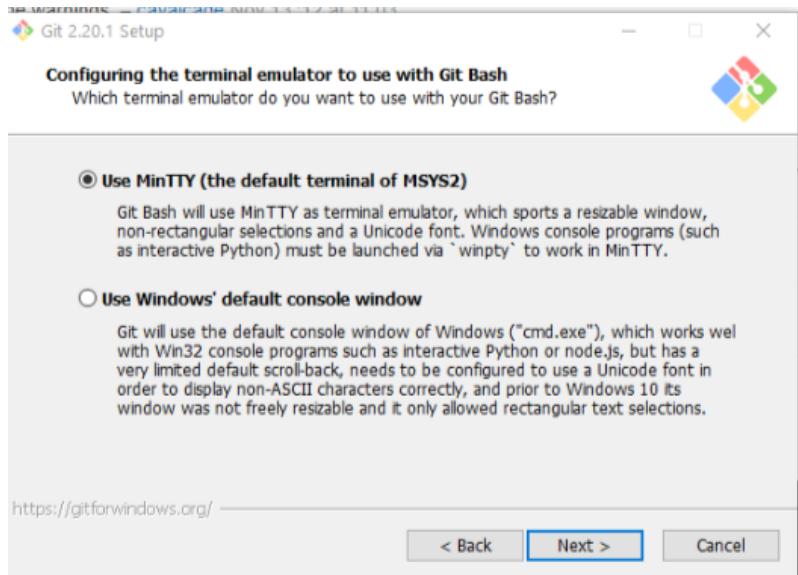
MS Excel 2013 Professional Plus

Git for Windows

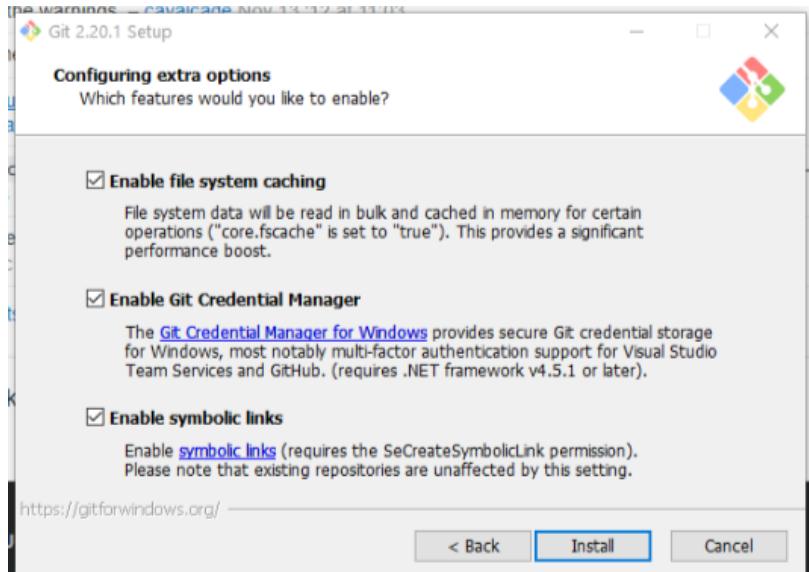
- Follow the Instructions as per the [setup file](#)
 - In order to work properly i.e. provide **Unix** features in **Windows**, tick/untick as per the images provided below.
- Components Installation



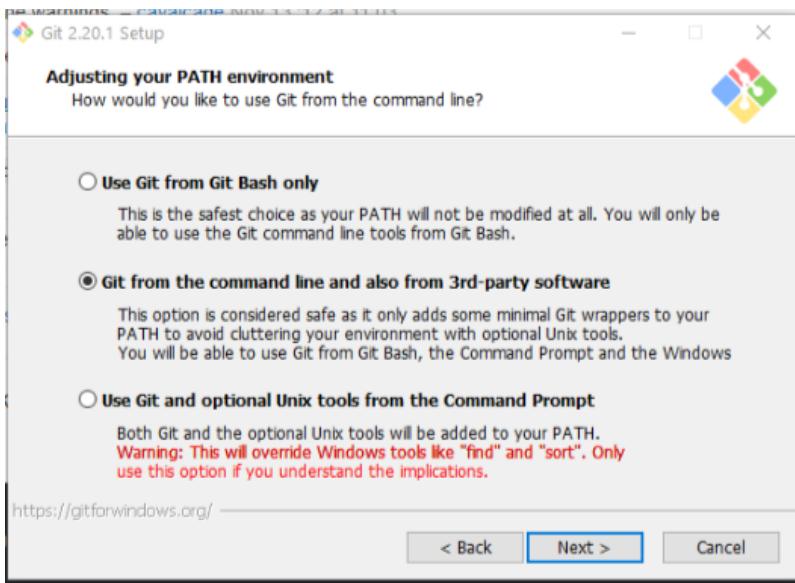
- **Config Terminal Emulator**



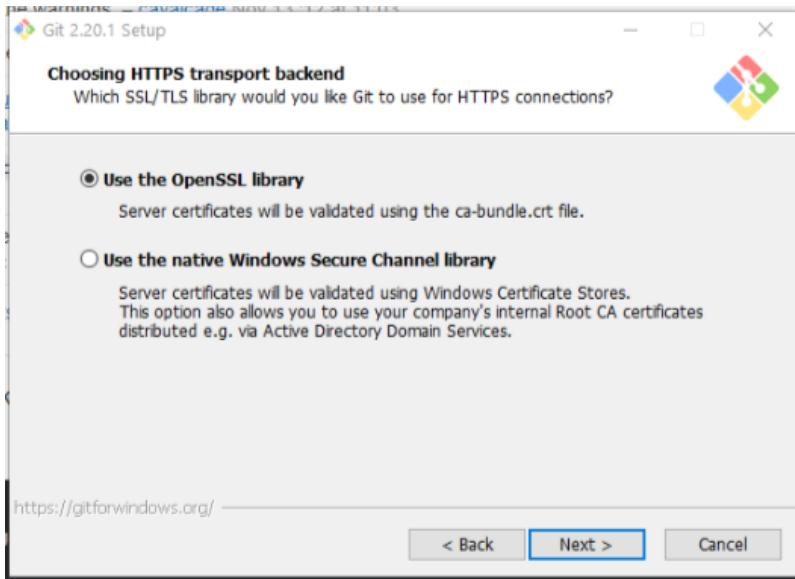
- **Extra options**



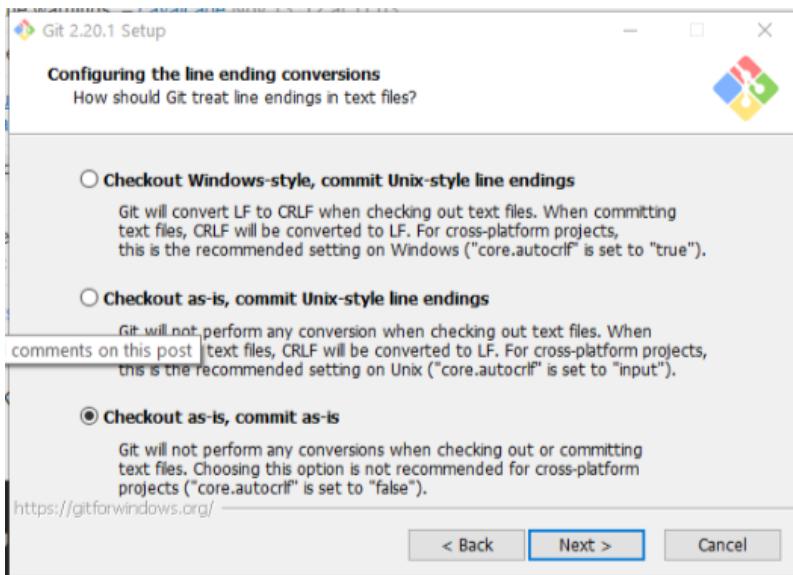
- Use Git from Command line



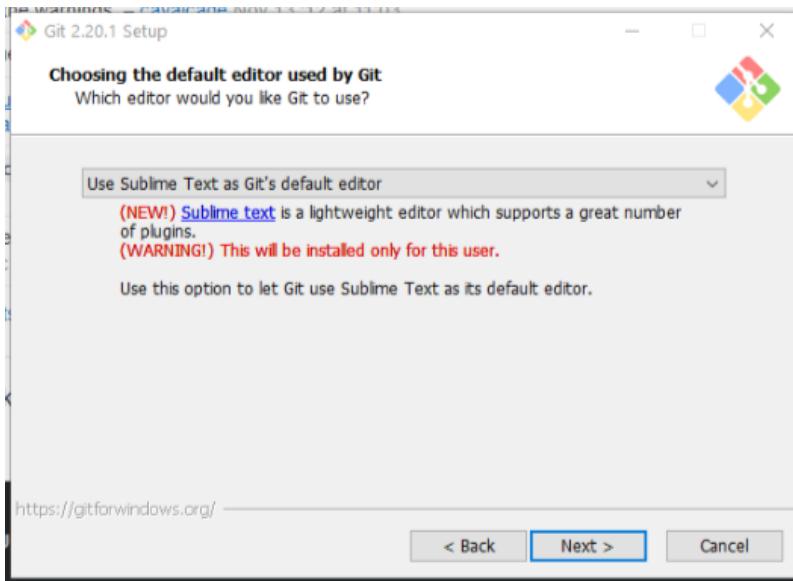
- Choosing HTTP Transport Backend



- Config line style



- Use Sublime Text 3 as editor



Batch programs

- Mainly there are 3 batch files, which are to be used for Excel, Word file types:
 - showc : Show a Word/Excel file on a specific datetime.
 - diffc1 : Compare 2 versions (past & latest) of a Word/Excel file on 2 different datetime.
 - diffc2 : Compare 2 versions (on 2 different dates) of a Word/Excel file on 2 different datetime.

Set Environment PATH variable

- Add location of **Developer folder** (e.g. "F:\Developer") to Environment PATH variable in Windows PC/Desktop.

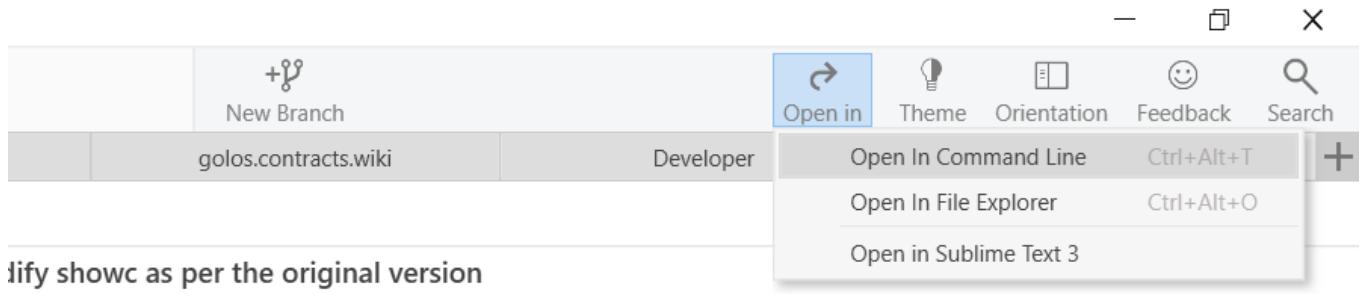
Folder structure:

```
.
|-- .gitignore
|-- diffc1.bat
|-- diffc2.bat
|-- gitsetup.bat
```

```
|-- openinst3.bat  
|-- showc.bat
```

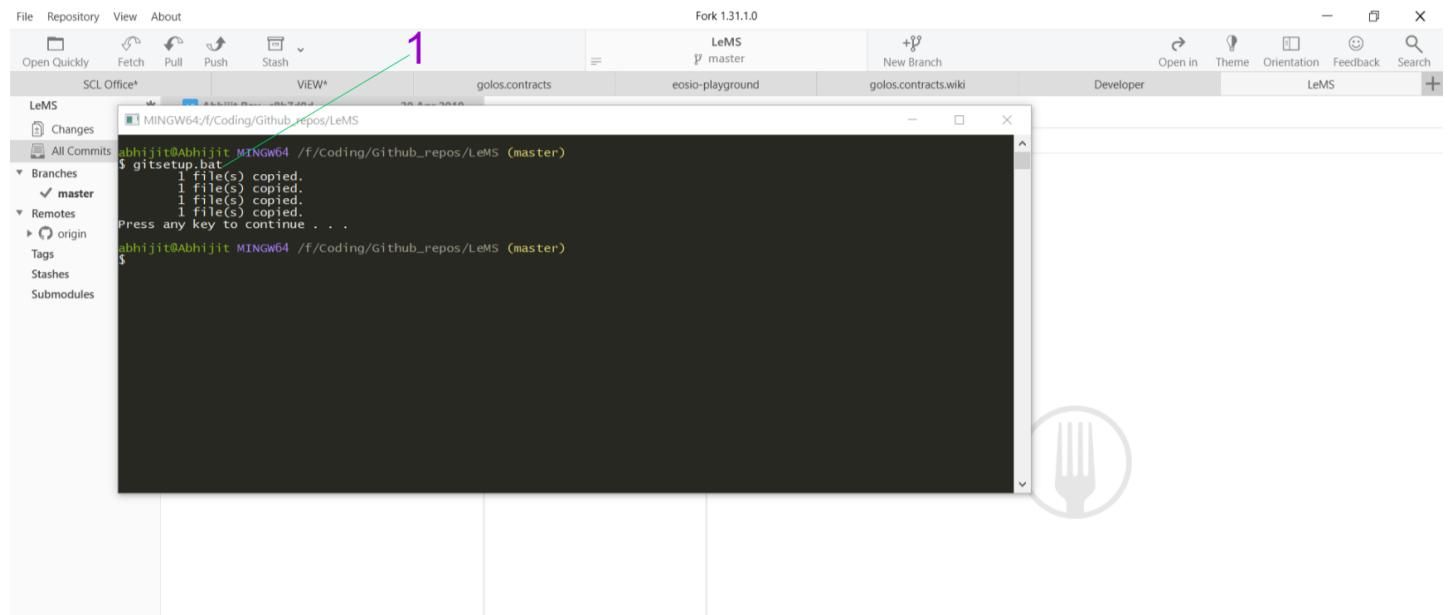
Here, execute in Command prompt.

Step 1: Open in Command Line



Identify showc as per the original version

Step 2: Execute gitsetup.bat file



In the Image above, 1 - type `gitsetup.bat` and enter.

Installation

Prerequisites

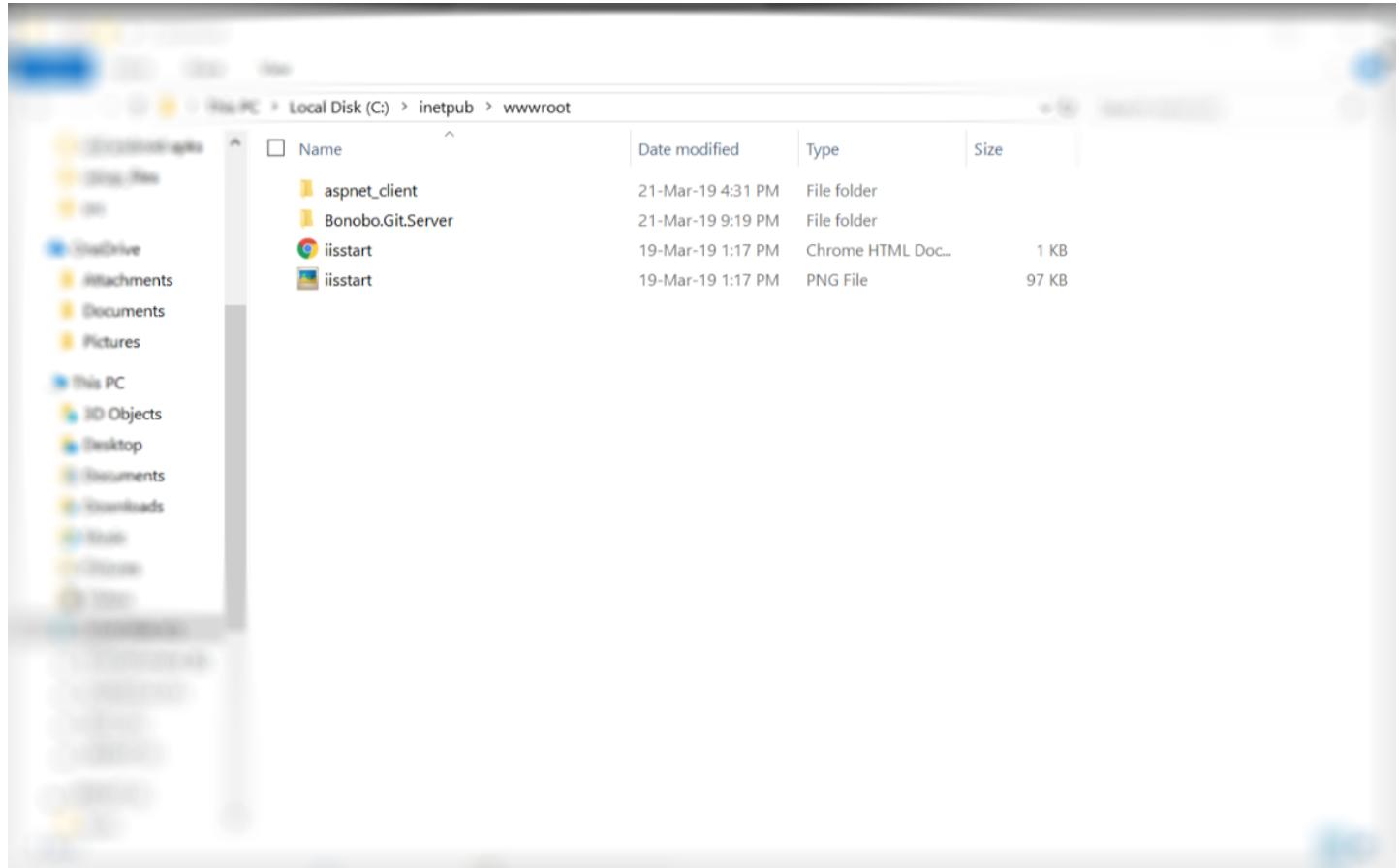
- Go to Control Panel - "Turn Windows Features On/Off"
- tick the "Internet Information Services" and Apply.
- Then, to install .NET Framework and ASP.NET support, follow this:
 - under "IIS -> World Wide Web Services -> Application Development Features"
 - Tick the followings and Apply.
 - .NET Extensibility 4.7
 - ASP.NET 4.7
 - ISAPI Extensions
 - ISAPI Filters
- Now, the prerequisites are installed.

[Bonobo Installation from Internet](#)

[Bonobo Installation from Local folder](#)

Follow the steps:

- Extract the Zip folder to "C:\inetpub\wwwroot" directory as shown in the image below -



- Set the permission (Modify, Write) for the App_Data folder inside Bonobo.Git.Server.
- Open IIS Manager. Goto "Right Click" on Bonobo.Git.Server and Convert to Application.
- Click on Authentication of Bonobo.Git.Server and enable Anonymous Authentication.

[Images folder](#)

Explore

- **Admin page**

Default credentials are username: `admin` password: `admin`

Sign In

Username admin *

Password **** *

Remember me?

Sign In

[Forgot Password?](#)

Bonobo Git Server (6.3.0.632) © 2015 Jakub Chodounský · Official Page · Github

- **Change Admin details**

admin

Username admin *

Name admin *

Surname

Email *

New Password

Confirm Password *

Roles Administrator

Back **Save**

Bonobo Git Server (6.3.0.632) © 2015 Jakub Chodounský · Official Page · Github

- **Manage Users**

Step 1:

Username	Name	Surname	Email
abhijit	roy	abhijit	abhijit@scl.gov.in
admin			

In the Image above,

- [1] - Click on this to see the list of users
- [2] - Create new User
- [3] - A user created named - **Abhijit**
- [4] - Admin is also a user

Step 2:

Create New Account

Username	<input type="text"/>	*
Name	<input type="text"/>	*
Surname	<input type="text"/>	*
Email	<input type="text"/>	*
Password	<input type="password"/>	*
Confirm Password	<input type="password"/>	*

In the Image above, fill all the user details (along with password) and then press **Create** button.

• List of Repositories

The screenshot shows the Bonobo Git Server interface at localhost/Bonobo.Git.Server/Repository/Index. The top navigation bar includes links for 'Go to repository', 'Repositories', 'Users', 'Teams', 'Settings', 'admin', and 'Sign Out'. The main title is 'BONOBO GIT SERVER' with a logo. Below it, the heading 'Repositories' is followed by a search bar and a 'Search' button. To the right are buttons for 'Sort Group', 'Create new repository', and 'Rescan directory'. A purple number '3' points to the 'Create new repository' button. The main content area displays two repositories in a table:

Name	Description
demo.git (Missing)	Discovered in file system.
demo1	demo1

Annotations with green lines and numbers point to specific elements: '1' points to the first repository row; '2' points to the second repository row; '4' points to the first set of three icons in the row actions; '5' points to the second set of three icons; and '6' points to the third set of three icons.

In the Image above,

- A missing repository (deleted from explorer)
 - A existing repository
 - Create New repository
 - Repository's URL (e.g. "<http://localhost/Bonobo.Git.Server/demo1.git>")
 - Edit repository details (add/delete users, repository details...)
 - Delete the repository from Server side.

- Create New Repository

localhost/Bonobo.Git.Server/Repository/Create

Create New Repository

Name *

Group

Description

Logo (36x36) Choose File No file chosen .png, jpg, jpeg, gif

Anonymous ⓘ

Anonymous push ⓘ

Use global linkify settings

Link Regex

Link Url ⓘ

Contributors abhijit roy ⓘ
 admin ⓘ

Administrators abhijit roy ⓘ
 admin ⓘ

Teams No Records... ⓘ

Fill the repository details, add/delete contributors and then press **Create** button.

- **Team list**

The screenshot shows the 'Teams' page of the Bonobo Git Server. At the top, there is a header bar with the BONOBO GIT SERVER logo, navigation links (Go to repository, Repositories, Users, Teams, Settings, admin, Sign Out), and a search bar. Below the header is a title 'Teams' and a blue button labeled '+ Create new team'. A table with columns 'Name' and 'Description' is present, but it is empty. At the bottom of the page, a footer bar displays the text 'Bonobo Git Server (6.3.0.632) © 2015 Jakub Chodounský · Official Page · Github'.

In the Image above, there is no team created as yet.

- **Create Team**

The screenshot shows the 'Create New Team' page. The header bar includes the BONOBO GIT SERVER logo, navigation links, and a search bar. The main content area has a title 'Create New Team' and a form with fields: 'Name' (with a required asterisk), 'Description' (a large text area), and 'Members' (a list with checkboxes for 'abhijit roy' and 'admin'). At the bottom are 'Back' and 'Save' buttons. A footer bar at the bottom of the page displays the text 'Bonobo Git Server (6.3.0.632) © 2015 Jakub Chodounský · Official Page · Github'.

In the Image above, add users in your team. Give the details and then press the **Save** button.

- **Repository Browser**

Click on a repository (say, demo1) in the **Repositories Page**. It will be shown as below:

localhost/Bonobo.Git.Server/Repository/Tree/94e6cc7b-0b68-4a54-a9e9-431913debe50

BONOBO GIT SERVER

Go to repository ▾ Repositories Users Teams Settings admin Sign Out

demo1

Details Repository Browser Commits Tags Download Clone

master Home

Name	Message	Date
.gitattributes	modified .gitattributes	3/28/2019 1:24:54 PM
.gitignore	Ignore temp_files - temp_*	3/29/2019 12:17:33 PM
Book1.xlsx	modified files - Book1.xlsx - README.md	3/27/2019 9:07:33 PM
demo.txt	modified file demo.txt	3/27/2019 11:23:01 AM
diffc1.bat	edited the comments for 3 files - diffc1.bat - diffc2.bat -	4/3/2019 12:34:19 AM
diffc2.bat	edited the comments for 3 files - diffc1.bat - diffc2.bat -	4/3/2019 12:34:19 AM
README.md	modified README	3/27/2019 9:19:03 PM
showc.bat	edited the comments for 3 files - diffc1.bat - diffc2.bat -	4/3/2019 12:34:19 AM
todo	final version	4/2/2019 2:50:55 AM
Word1.docx	modified word file	3/24/2019 12:04:55 AM

VCS for Excel

Windows Ink Workspace

• Settings page

localhost/Bonobo.Git.Server/Settings/Index

BONOBO GIT SERVER

Go to repository ▾ Repositories Users Teams Settings admin Sign Out

Settings

Repository Directory: \\vmfg\\fd file server\ * ⓘ

Site Title: ⓘ

Site Logo URL: ⓘ

Site Footer Message: ⓘ

Site CSS URL: ⓘ

Language: en-US - English (United States) ⓘ

Allow anonymous registration ⓘ

Allow user repository creation ⓘ

Allow push to create repositories ⓘ

Allow push for anonymous repositories

Show commit author avatar

Link Regex: ⓘ

Link Url: ⓘ

Save

- change the default location to your choice
- Allow user repository creation
- Allow push to create repos
- Allow push for anonymous repos
- Show commit author avatar

Fork Git Client

Standard

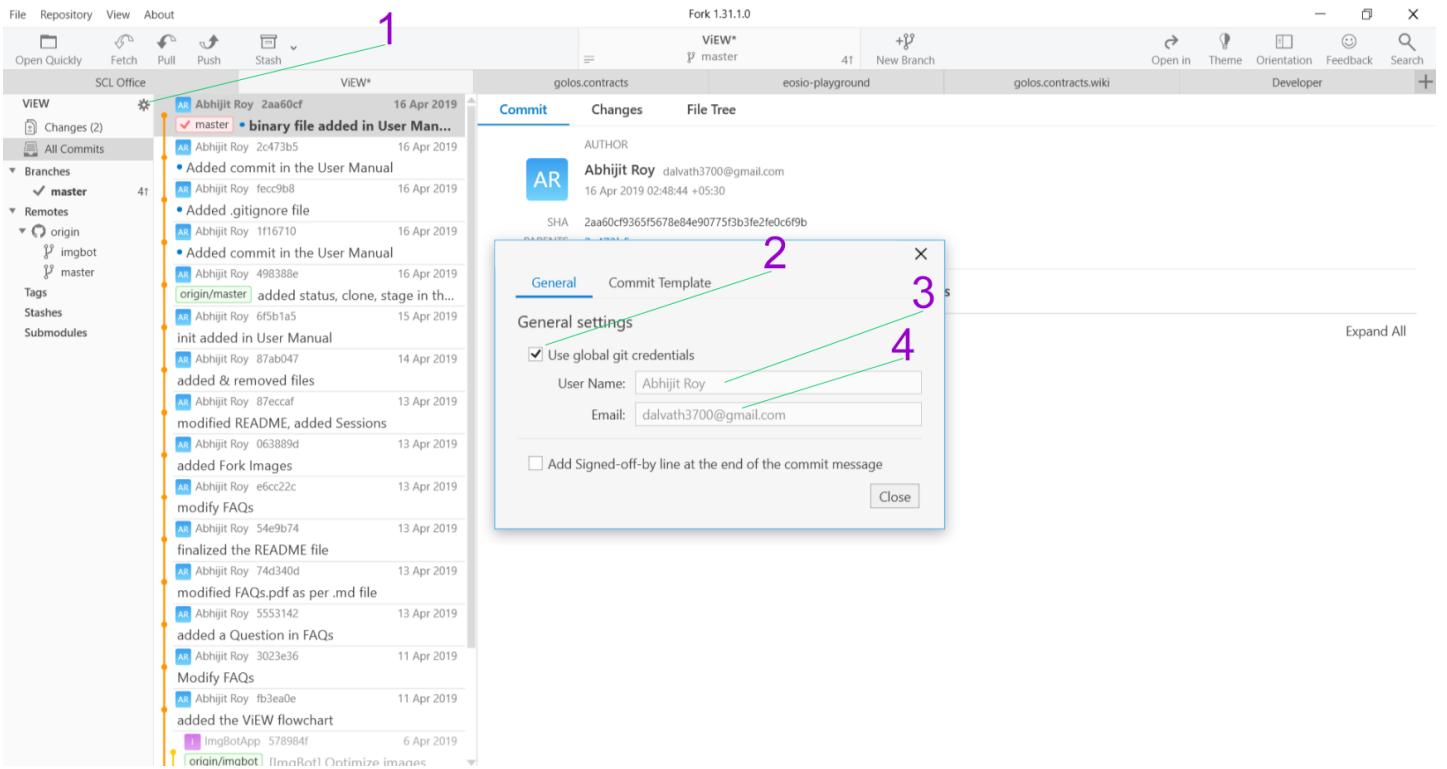
- Click the Setup file and install it as per instruction.

NOTE: No Administrator permission required.

- After Installation, it would ask for User details- **User Name** , **Email** . Give your full name and Office's email address. This would help in recording the author details when making any file changes.

NOTE: Although in the beginning, user details are taken, but for each repository there is an option to use different user details as well.

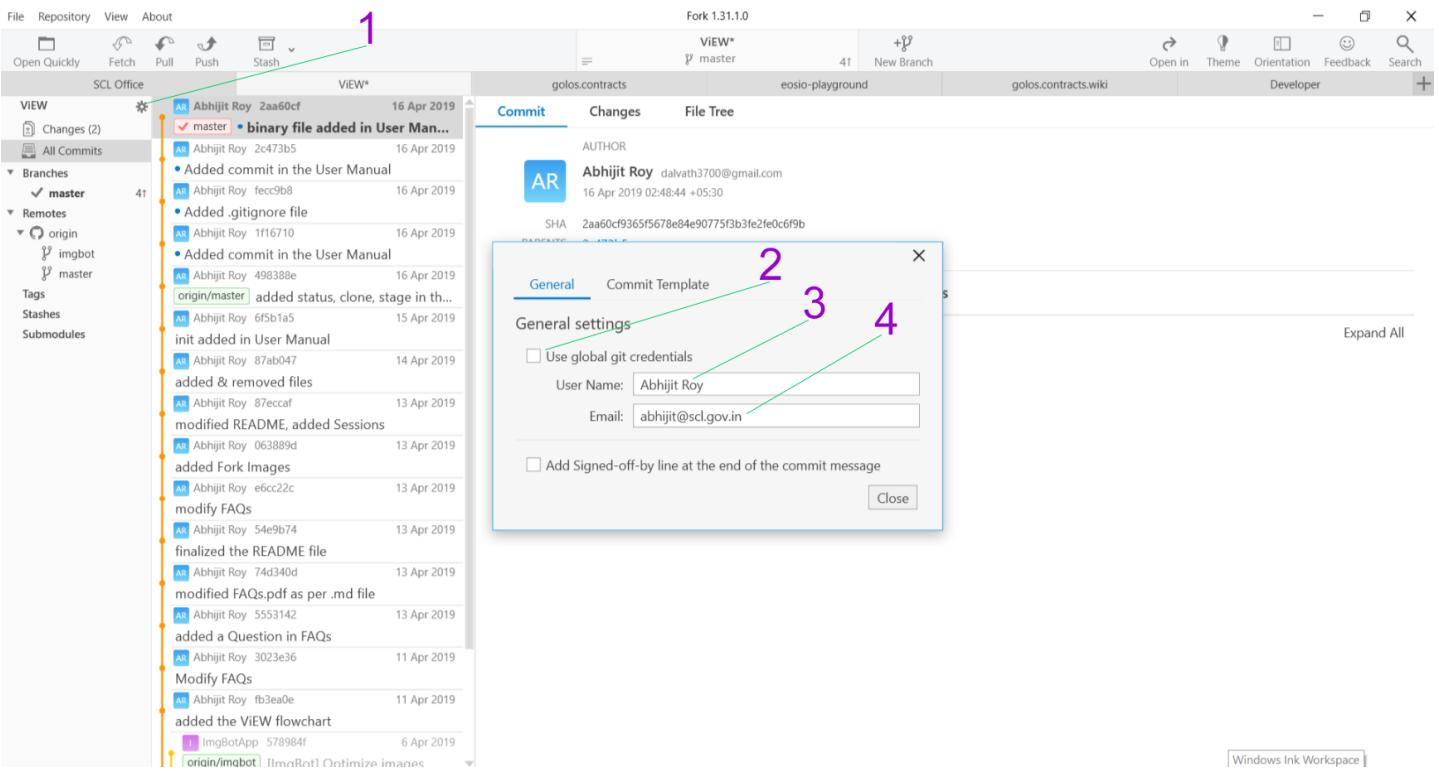
Global User credentials: Can be used for all repository



In the Image above,

- 1 - Click the Repository Settings to bring the dialog.
- 2 - Tick to use the global user credentials for this repository.
- 3 - Full name (of global) for this repository. Asked during Installation.
- 4 - Email address (of global) for this repository. Asked during Installation.

Local User credentials: Can be used for a repository



In the Image above,

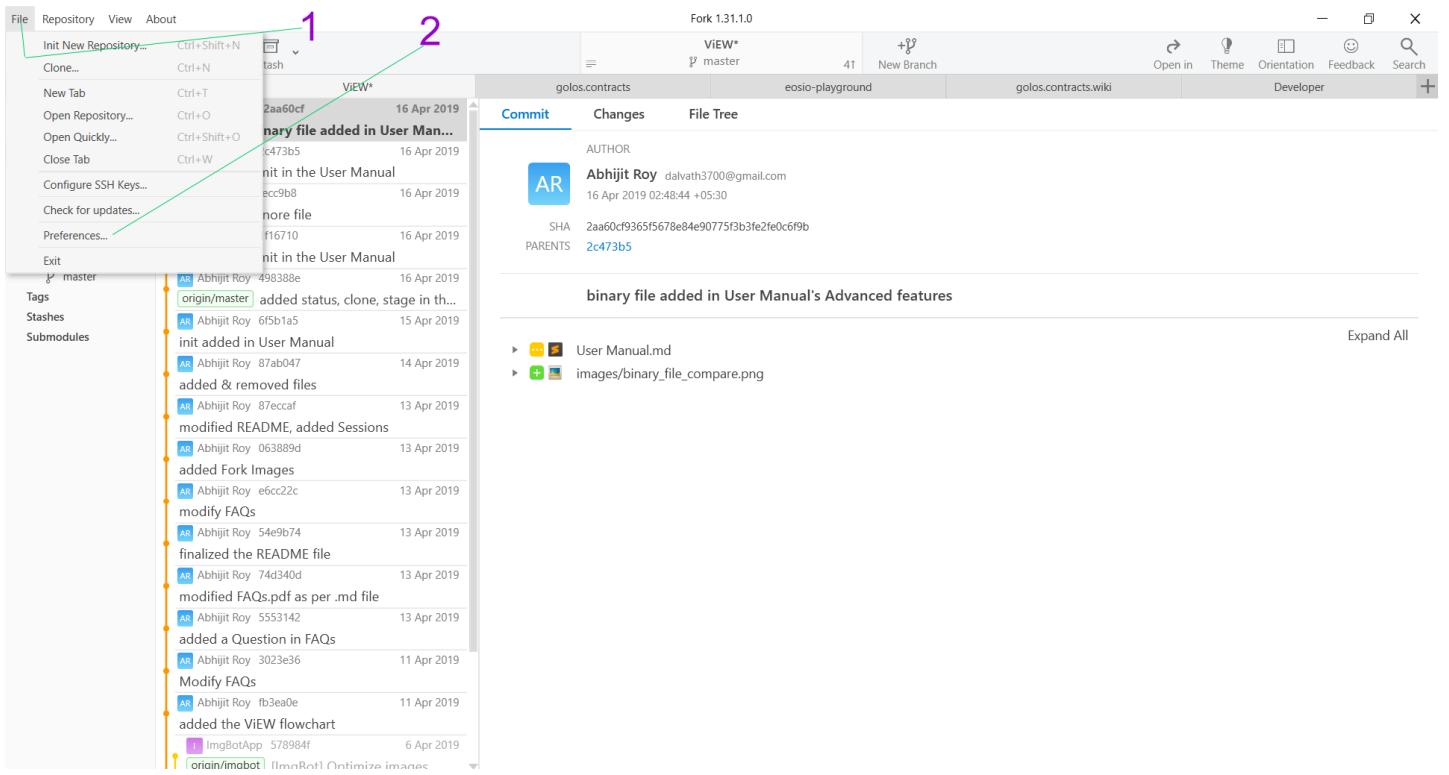
- 1 - Click the Repository Settings to bring the dialog.
- 2 - Untick to use different user credentials (other than global) for this repository.
- 3 - Full name for this repository.
- 4 - Email address for this repository.

Advanced

- Open in Sublime Text 3 If am Universal Editor is needed, `Sublime Text 3` can be used in that case.

Also, it can be merged with the Fork Client.

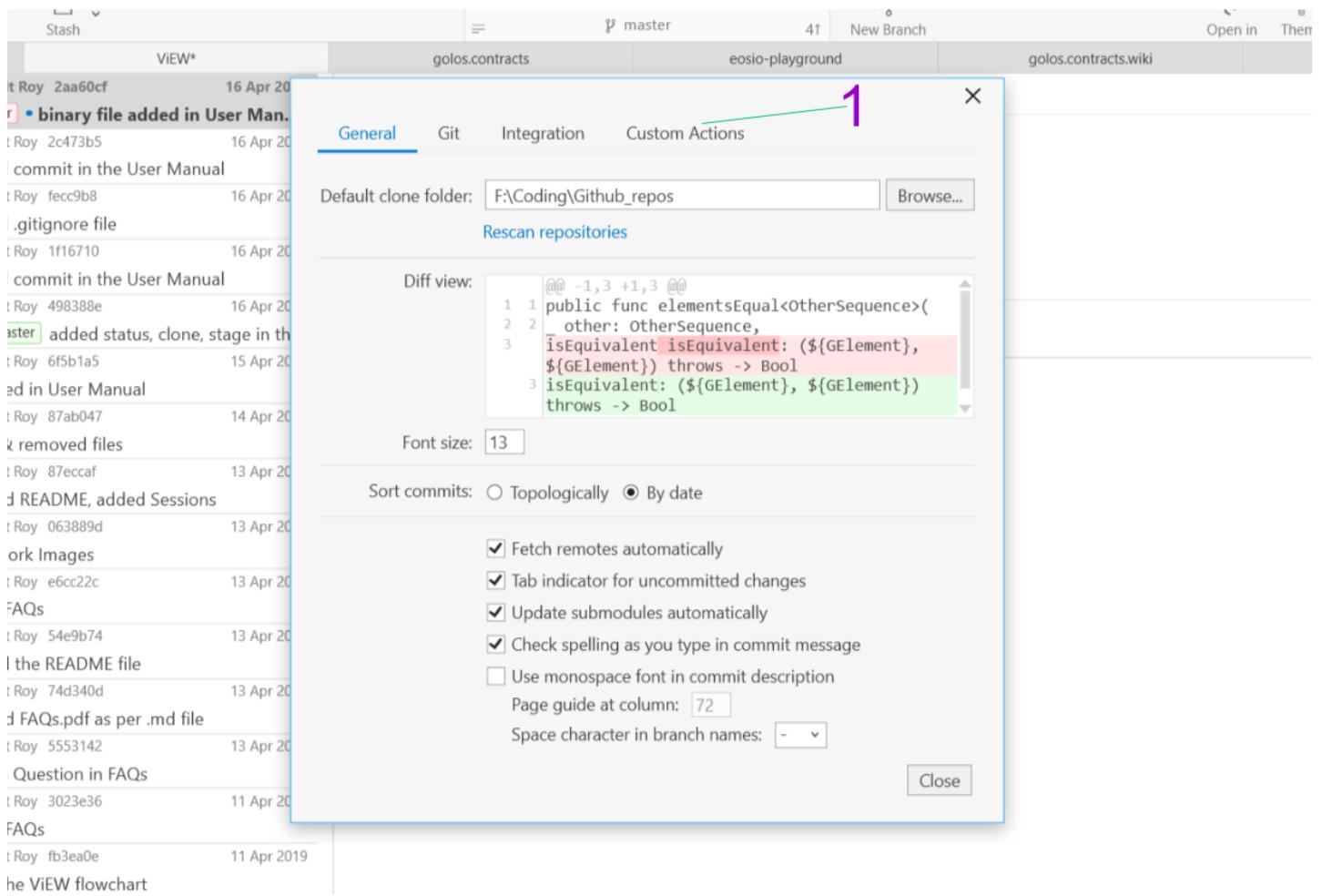
Step 1:



In the Image above,

- 1 - Click **File** menu option
- 2 - Click **Preferences..**

Step 2:



In the Image above,

[1] - Now, click the Custom Actions

Step 3:

The screenshot shows a GitHub repository interface with several pull requests listed on the left and a detailed view of a specific pull request on the right.

Pull Requests:

- binary file added in User Man. (16 Apr 2019)
- Commit in the User Manual (16 Apr 2019)
- ignore file (16 Apr 2019)
- Commit in the User Manual (16 Apr 2019)
- added status, clone, stage in th (15 Apr 2019)
- in User Manual (15 Apr 2019)
- removed files (14 Apr 2019)
- .EADME, added Sessions (13 Apr 2019)
- c Images (13 Apr 2019)
- 2s (13 Apr 2019)
- ie README file (13 Apr 2019)
- AQs.pdf as per .md file (13 Apr 2019)
- question in FAQs (13 Apr 2019)
- 3023e36 (11 Apr 2019)

Custom Actions Dialog:

Custom Actions tab selected.

Target:
Title: e.g. '\$reponame' status
Script Path: \$git or /path/to/script.bat

Parameters: e.g. status --porcelain

Wait For Exit
 Show Output

Available Variables:

Buttons: +, -

Close button.

In the Image above,

- 2 - Click the + symbol to create the custom action.

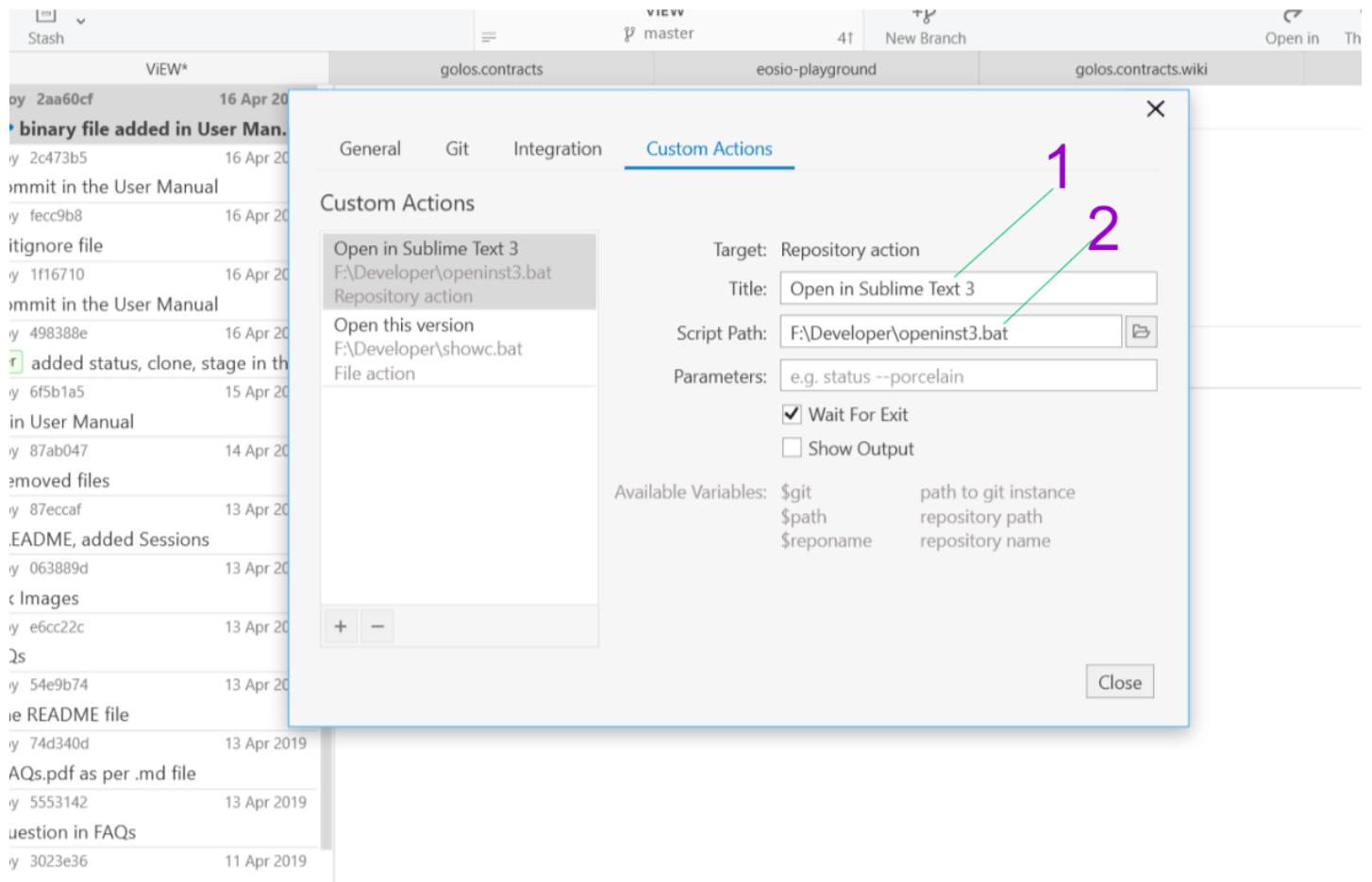
Step 4:

The screenshot shows the SCL Office application interface. On the left, there's a sidebar with navigation links like 'Open Quickly', 'Fetch', 'Pull', 'Push', and 'Stash'. The main area displays a commit history for the 'master' branch under the heading 'VIEW* master'. The commits are listed with author, commit ID, subject, and date. A context menu is open over the first commit, showing options: 'Open in Sublime Text 3', 'Repository action', 'Open this version', and 'File action'. A modal dialog titled 'Custom Actions' is open, showing tabs for 'General', 'Git', 'Integration', and 'Custom Actions'. It contains fields for 'Title' (set to 'Open in Sublime Text 3'), 'Script Path' (set to 'F:\Developer\openinst3.bat'), and 'Parameters' (set to 'e.g. status --porcelain'). There are checkboxes for 'Wait For Exit' (checked) and 'Show Output' (unchecked). Below the dialog, a list of available variables is shown: '\$git', '\$path', and '\$reponame', each with a description: 'path to git instance', 'repository path', and 'repository name' respectively. At the bottom of the dialog, there are buttons for '+', 'Close', and a dropdown menu with three items: 'Add Commit Custom Action', 'Add Repository Custom Action' (which is highlighted with a purple outline and a large purple number '1'), and 'Add File Custom Action'.

In the Image above,

- 1 - Click this to show the custom action dialog.

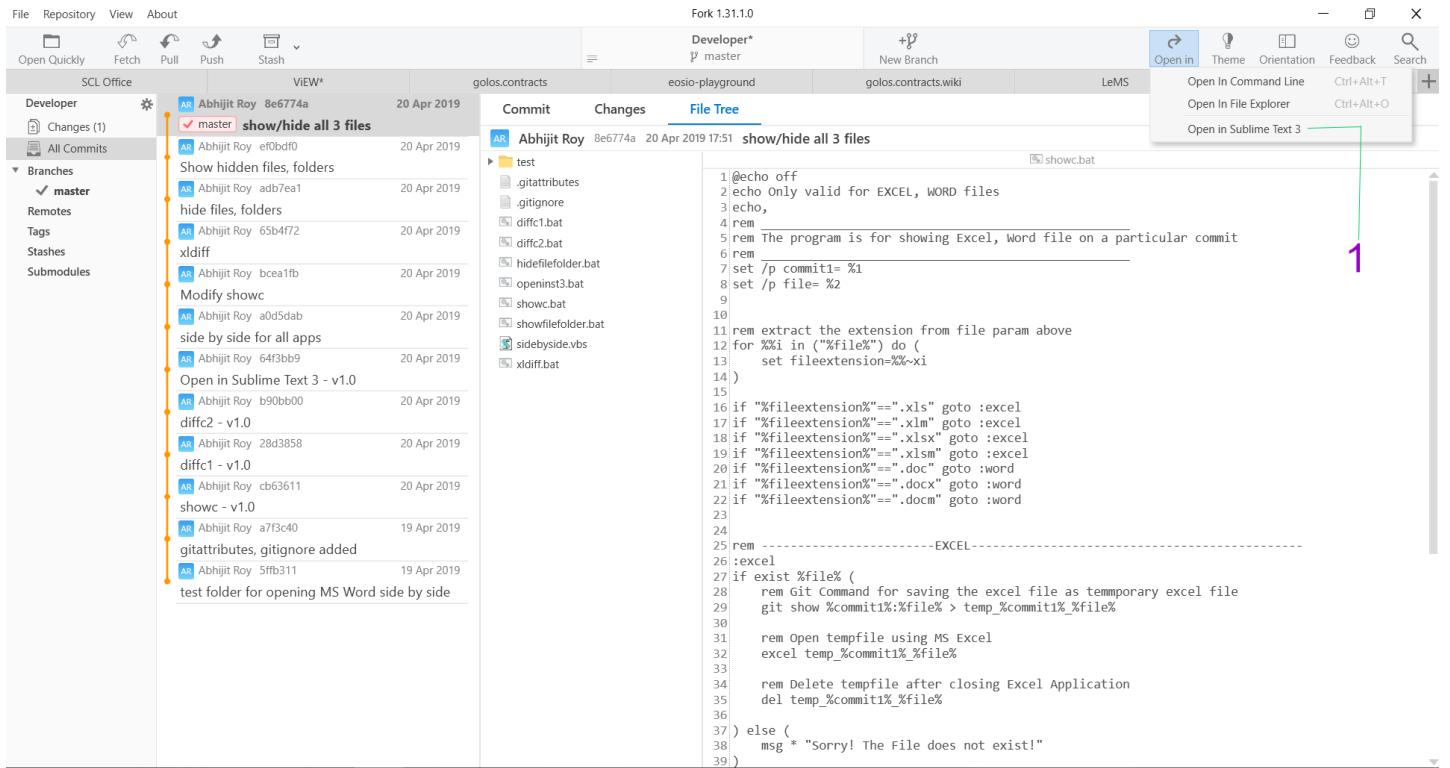
Step 5:



In the Image above,

- 1 - Write the title for custom action
- 2 - Link the .bat or .exe file (from Developer folder, explained above) to open **Sublime Text 3** in current repository path.

Step 6:



Fork 1.31.1.0

Developer* p master New Branch

SCL Office

ViEW*

golos.contracts eosio-playground golos.contracts.wiki LeMS

Commit Changes File Tree

AB Abhijit Roy 8e6774a 20 Apr 2019 show/hide all 3 files

AB Abhijit Roy 8e6774a 20 Apr 2019 show/hide all 3 files

Show hidden files, folders

AB Abhijit Roy adb7ea1 20 Apr 2019 .gitattributes

hide files, folders

AB Abhijit Roy e0fbdf0 20 Apr 2019 .gitignore

xdiff

AB Abhijit Roy 65b4f72 20 Apr 2019 diffc1.bat

Modify showc

AB Abhijit Roy a0d5dab 20 Apr 2019 diffc2.bat

side by side for all apps

AB Abhijit Roy 64f3bb9 20 Apr 2019 hidefilefolder.bat

Open in Sublime Text 3 - v1.0

AB Abhijit Roy b90bb00 20 Apr 2019 openin3.bat

diffc2 - v1.0

AB Abhijit Roy 28d3858 20 Apr 2019 showc.bat

diffc1 - v1.0

AB Abhijit Roy cb63611 20 Apr 2019 showfilefolder.bat

showc - v1.0

AB Abhijit Roy a7f3c40 19 Apr 2019 sidesbyside.vbs

gitattributes, gitignore added

AB Abhijit Roy 5ffb311 19 Apr 2019 xldiff.bat

test folder for opening MS Word side by side

File Tree

showc.bat

```

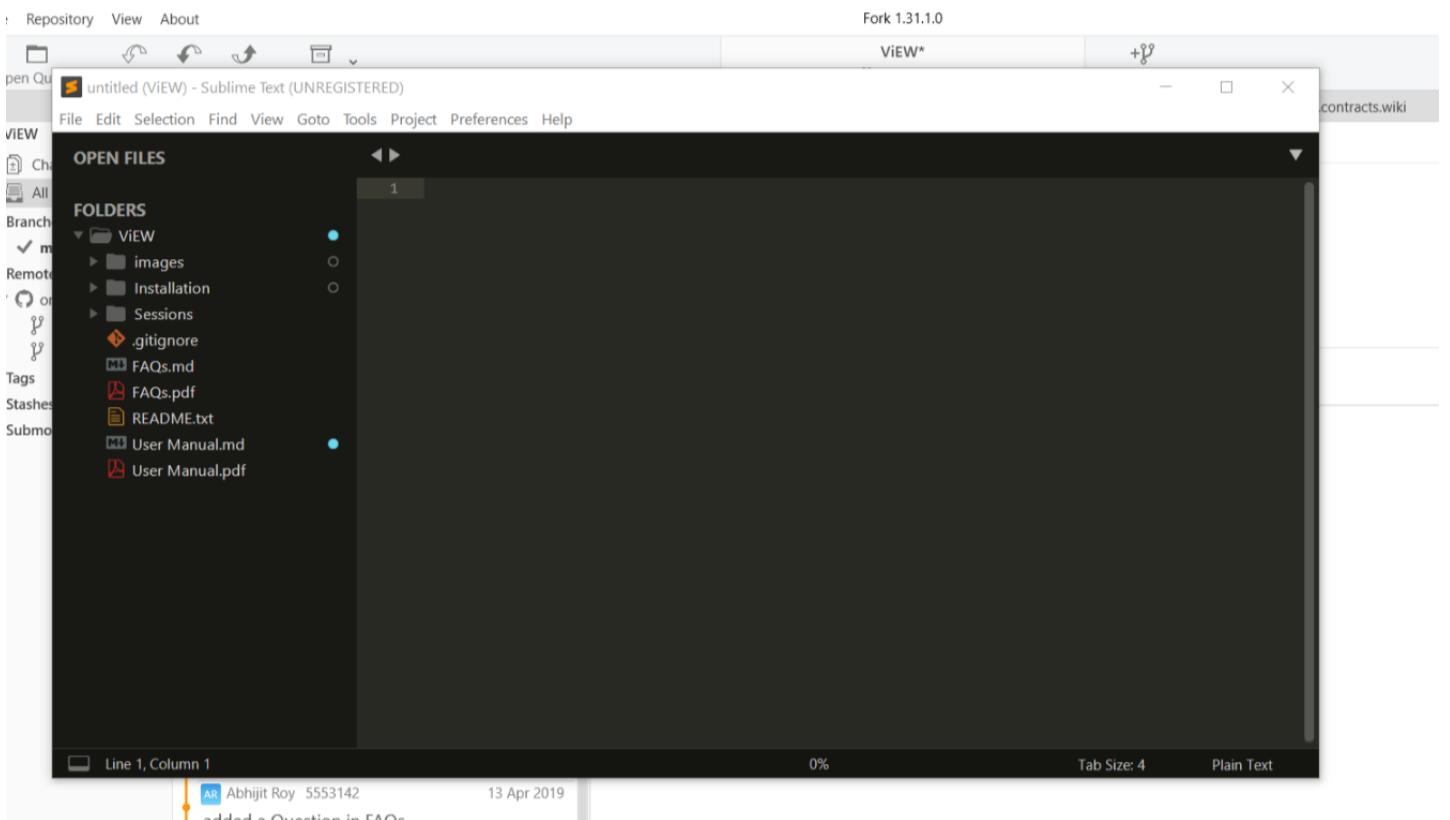
1 @echo off
2 echo Only valid for EXCEL, WORD files
3 echo,
4 rem
5 rem The program is for showing Excel, Word file on a particular commit
6 rem
7 set /p commit1=%1
8 set /p file=%2
9
10
11 rem extract the extension from file param above
12 for %%i in ("%file%") do (
13     set fileextension=%%~xi
14 )
15
16 if "%fileextension%"=="xls" goto :excel
17 if "%fileextension%"=="xml" goto :excel
18 if "%fileextension%"=="xlsx" goto :excel
19 if "%fileextension%"=="xlsm" goto :excel
20 if "%fileextension%"=="doc" goto :word
21 if "%fileextension%"=="docx" goto :word
22 if "%fileextension%"=="docm" goto :word
23
24
25 rem -----EXCEL-----
26 :excel
27 if exist %file% (
28     rem Git Command for saving the excel file as temporary excel file
29     git show %commit1%:%file% > temp_%commit1%_%file%
30
31     rem Open tempfile using MS Excel
32     excel temp_%commit1%_%file%
33
34     rem Delete tempfile after closing Excel Application
35     del temp_%commit1%_%file%
36
37 ) else (
38     msg * "Sorry! The File does not exist!"
39 )

```

In the Image above,

- Finally, this opens **Sublime Text 3** for current repository.

Step 7:



Repository View About

Fork 1.31.1.0

ViEW*

OPEN FILES

FOLDERS

- ViEW
 - images
 - Installation
 - Sessions
 - .gitignore
 - FAQs.md
 - FAQs.pdf
 - README.txt
 - User Manual.md
 - User Manual.pdf

Line 1, Column 1 0% Tab Size: 4 Plain Text

AB Abhijit Roy 5553142 13 Apr 2019 added a Question in FAQs

In the Image above,

- This is how the repository looks like in **Sublime Text 3**.

NOTE: Now, this can be used especially, if someone is maintaining project directory with version control, this **Sublime Text 3** is really going to be helpful while coding practice (with too many custom themes with modern colors.)

Terms

1. Repository

Repository is termed as any folder with files (any format), sub-folders inside it.



2. remotes/origin/master

It refers to the **master** (or main) branch of the repository kept at remote server.

The screenshot shows a Sublime Text 3 interface with a Git plugin. The left sidebar displays a tree view of branches, remotes, and tags. The 'origin' remote has a 'master' branch. The main area shows a list of commits for the 'origin/master' branch. Commit 1 (highlighted by a green bracket) is the first commit, titled 'added & remov...', made by 'Abhijit Roy' on '14 Apr 2019'. Commit 2 (highlighted by a red bracket) is the second commit, titled 'modified README, added Sessions', also made by 'Abhijit Roy' on '13 Apr 2019'. The commit list includes several other commits related to FAQ modifications and image optimization.

In the image above,

[1] - shows the `origin/master`, basically the master (or main) branch of repository (named - ViEW) kept at remote location.

3. branch/master

It refers to the **master** (or main) branch of the repository (named - ViEW) kept at local storage (like PC, desktop).

In the image above,

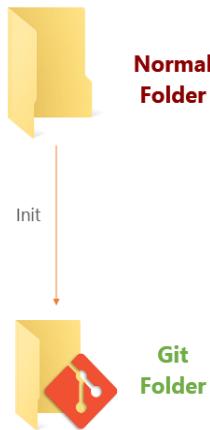
[2] - shows the `branches/master`, basically the master (or main) branch of folder kept at local location.

NOTE: Both the masters (at remote & local) are in sync.

Operations

1. init

It refers to initializing a non-git (or normal) folder to git repository.



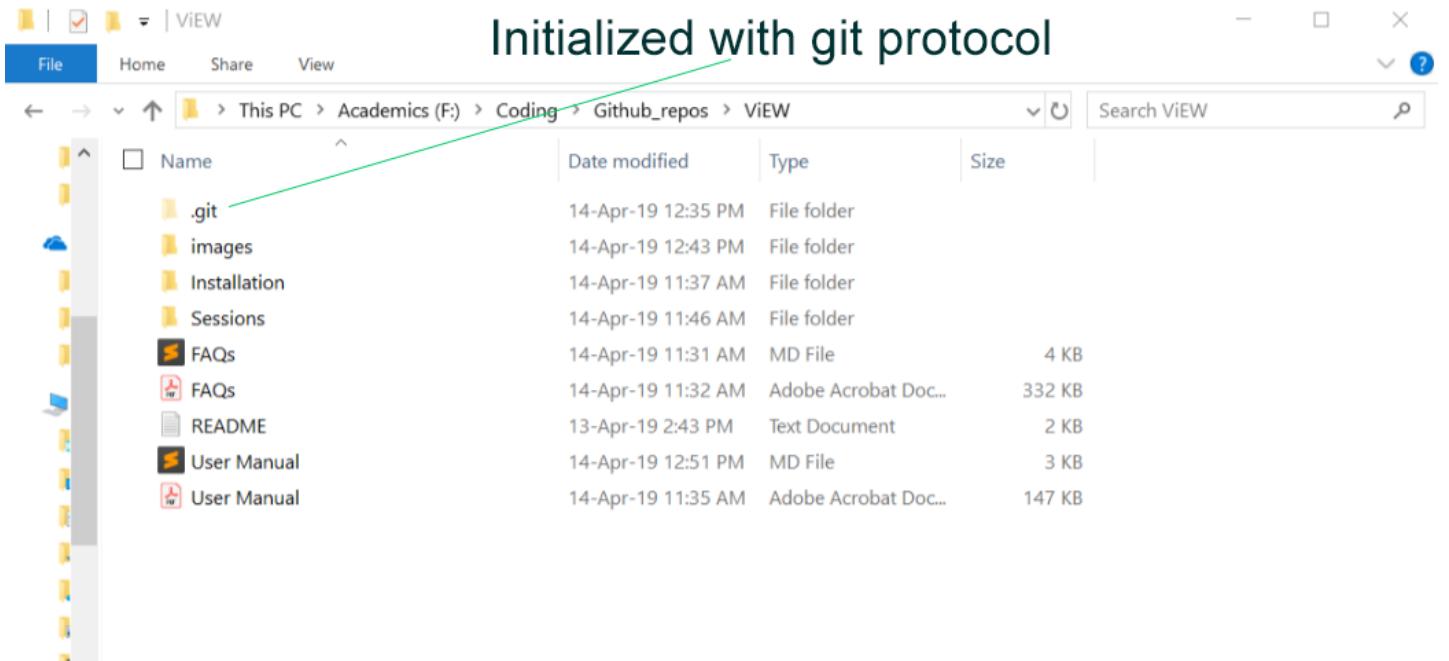
Example:

Normal repository:

A screenshot of a Windows File Explorer window. The address bar shows the path: 'Academics (F:) > Coding > Github_repos > ViEW'. The main area displays a list of files and folders:

Name	Date modified	Type	Size
images	14-Apr-19 12:35 PM	File folder	
Installation	14-Apr-19 11:37 AM	File folder	
Sessions	14-Apr-19 11:46 AM	File folder	
FAQs	14-Apr-19 11:31 AM	MD File	4 KB
FAQs	14-Apr-19 11:32 AM	Adobe Acrobat Doc...	332 KB
README	13-Apr-19 2:43 PM	Text Document	2 KB
User Manual	14-Apr-19 12:41 PM	MD File	2 KB
User Manual	14-Apr-19 11:35 AM	Adobe Acrobat Doc...	147 KB

Git repository:



NOTE: From now onwards, **Git repository** will be called as **repository** (in short).

2. status

It shows the status of the files (inside repository) changed. To see the changes (if any), click "Changes" on the left pane of Fork Application.

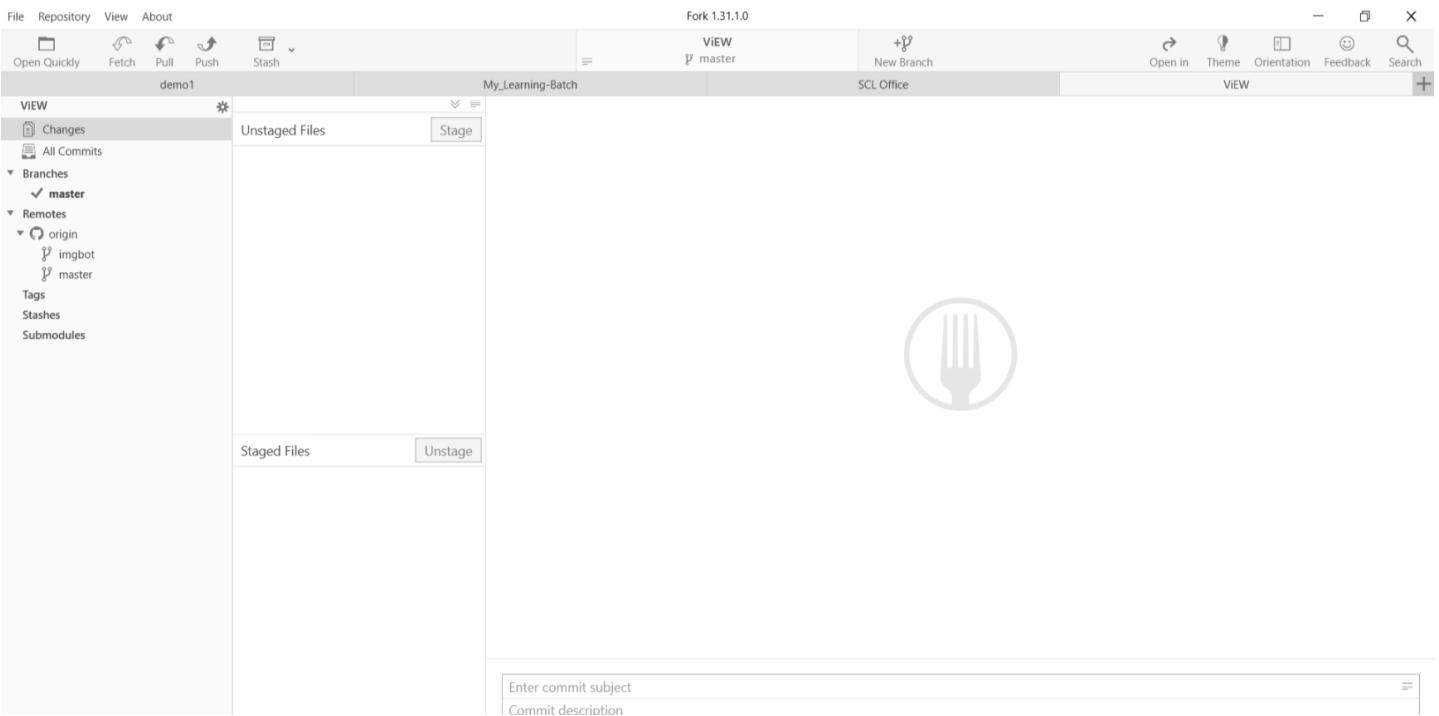
Example 1: Status showing file changes

The Fork application interface displays the following information:

- Left Sidebar:** Shows the repository structure: demo1, Branches (master), Remotes (origin, imgbot, master), Tags, Stashes, Submodules.
- Middle Panel (Changes):** Shows 6 changes. Unstaged Files include:
 - images/init_1.png
 - images/init_2.png
 - README.txt
 - User Manual.md
 - User Manual.pdf
- Right Panel (Preview):** Shows a file explorer view of the 'ViEW' folder. The table lists the following files and folders:

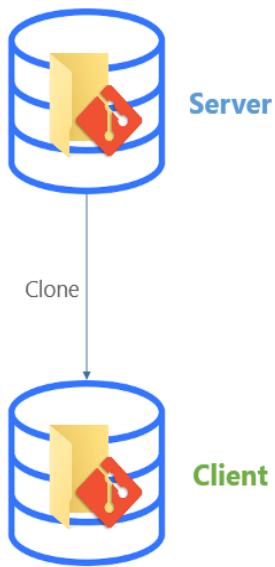
Name	Date modified	Type
images	14-Apr-19 12:35 PM	File folder
Installation	14-Apr-19 11:37 AM	File folder
Sessions	14-Apr-19 11:46 AM	File folder
FAQs	14-Apr-19 11:31 AM	MD File
FAQs	14-Apr-19 11:32 AM	Adobe Acrobat Doc...
README	13-Apr-19 2:43 PM	Text Document
User Manual	14-Apr-19 12:41 PM	MD File
User Manual	14-Apr-19 11:35 AM	Adobe Acrobat Doc...

Example 2: Status showing NO file changes



3. clone

This is to clone/download the repository (from remote location) to a desired directory in the local PC/Desktop.



Example: Clone a repository

The screenshot shows the Fork 1.31.1.0 application's Repository Manager. A modal window titled "Clone" is open, prompting for a repository URL, parent folder, and name. The modal has three numbered callouts pointing to specific fields: 1 points to the "Repository Url" field, 2 points to the "Parent Folder" field, and 3 points to the "Name" field.

In the Image above,

- [1] - Remote URL of the repository. E.g.: "http://localhost/Bonobo.Git.Server/demo1.git"
- [2] - Local directory where the repository is to be cloned.
- [3] - Custom Name for the cloned repository.

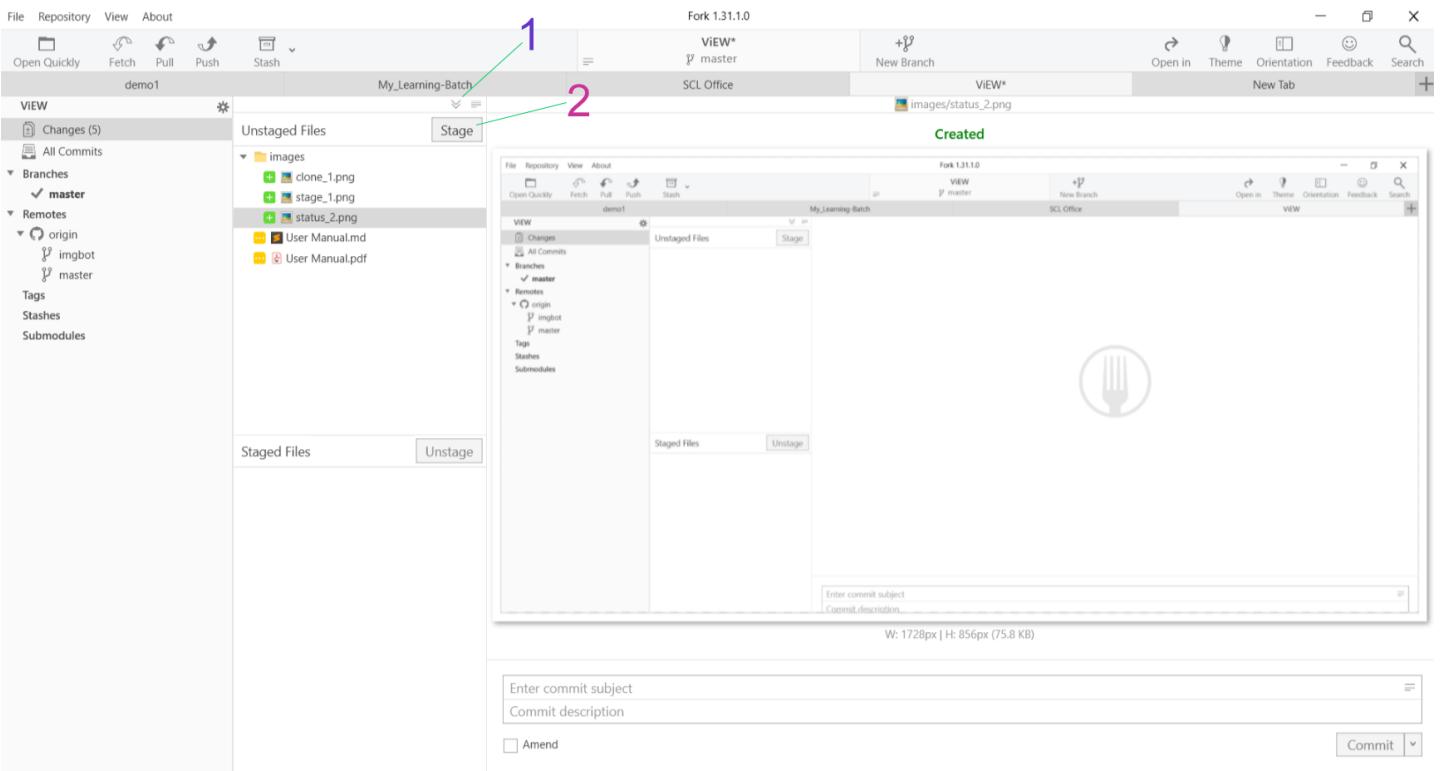
4. stage

Add file(s) to the Staging area. It's like adding/registering files for recording changes (in the repository).



In the image above, user has to stage the file(s) to **Staging area** before recording changes.

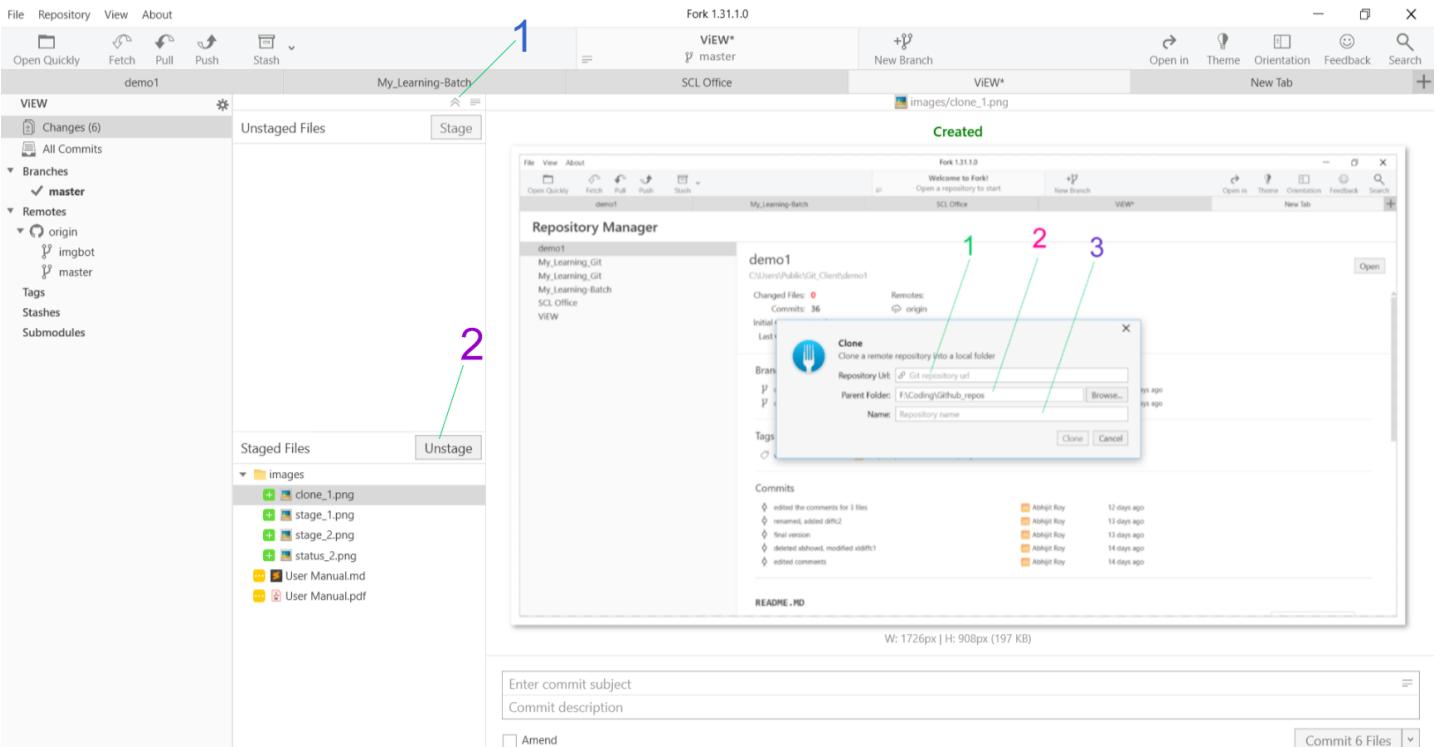
Example: Unstaged Files



In the Image above,

- 1 - Stage all file(s)
- 2 - Stage selected file(s)

Example: Staged Files



In the Image above,

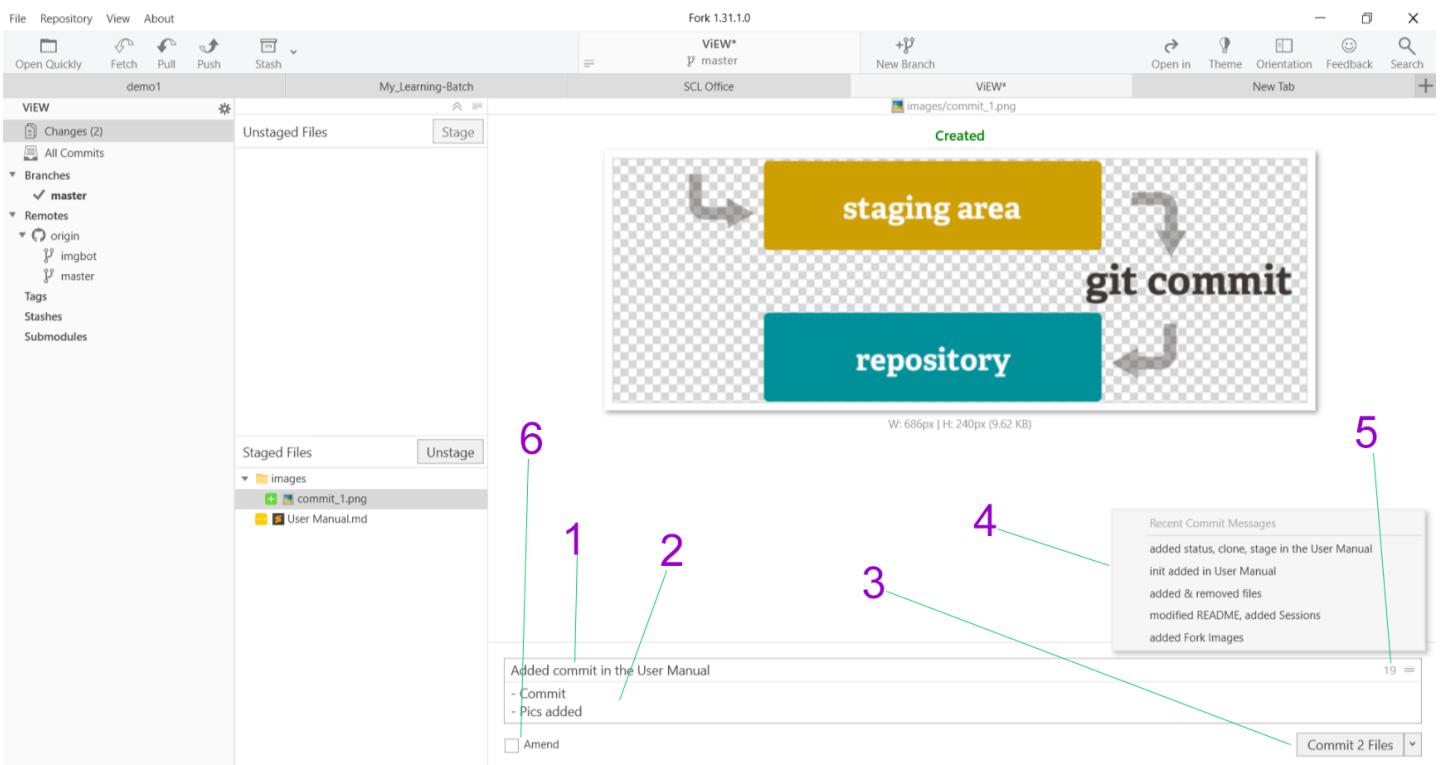
- 1 - Unstage all file(s)
- 2 - Unstage selected file(s)

5. commit

This is to record file changes and add it to the chain history. Here, **commit** means assigning a random unique no. (called as Cryptographic Hash) to a change.



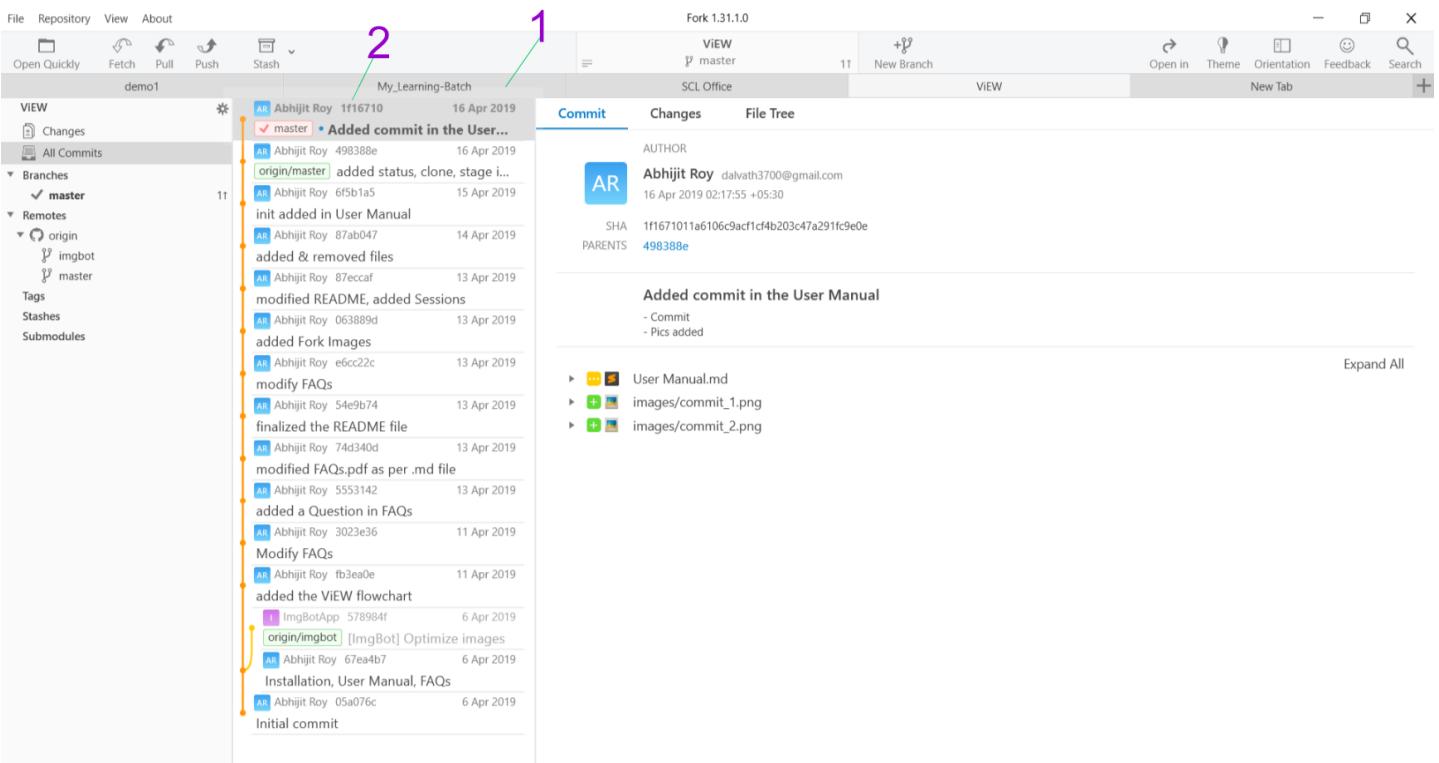
Example: Commit the Staged files



In the Image above,

- [1] - Commit Message Title
- [2] - Commit Message Description
- [3] - Commit button (when clicked => committed/recorded)
- [4] - Old Commit Message Titles. Can be used when repetitive title required.
- [5] - Show Old commit message titles
- [6] - Amend button i.e. when clicked, automatically uses last message title and description

Example: Commit added to the Chain history



In the Image above,

- 1 - Latest block (with files changes) added
- 2 - commit Hash (unique Cryptographic Hash using SHA1 Algorithm)

6. **push**

7. **fetch**

8. **pull**

Utility

- showc
- diffc1
- diffc2
- autopush
- allsync

Advanced Features

- Binary File - TODO
- File change security - TODO
- Old Block security - TODO