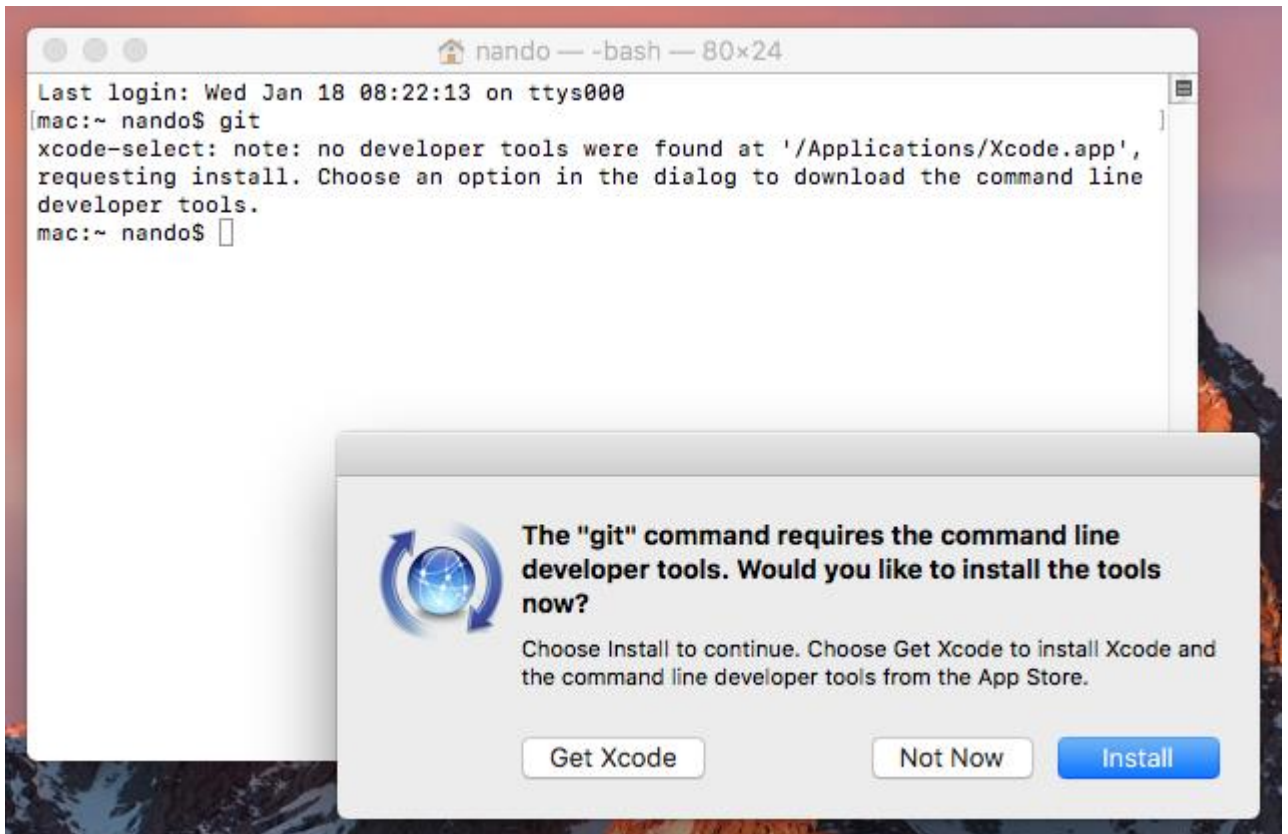
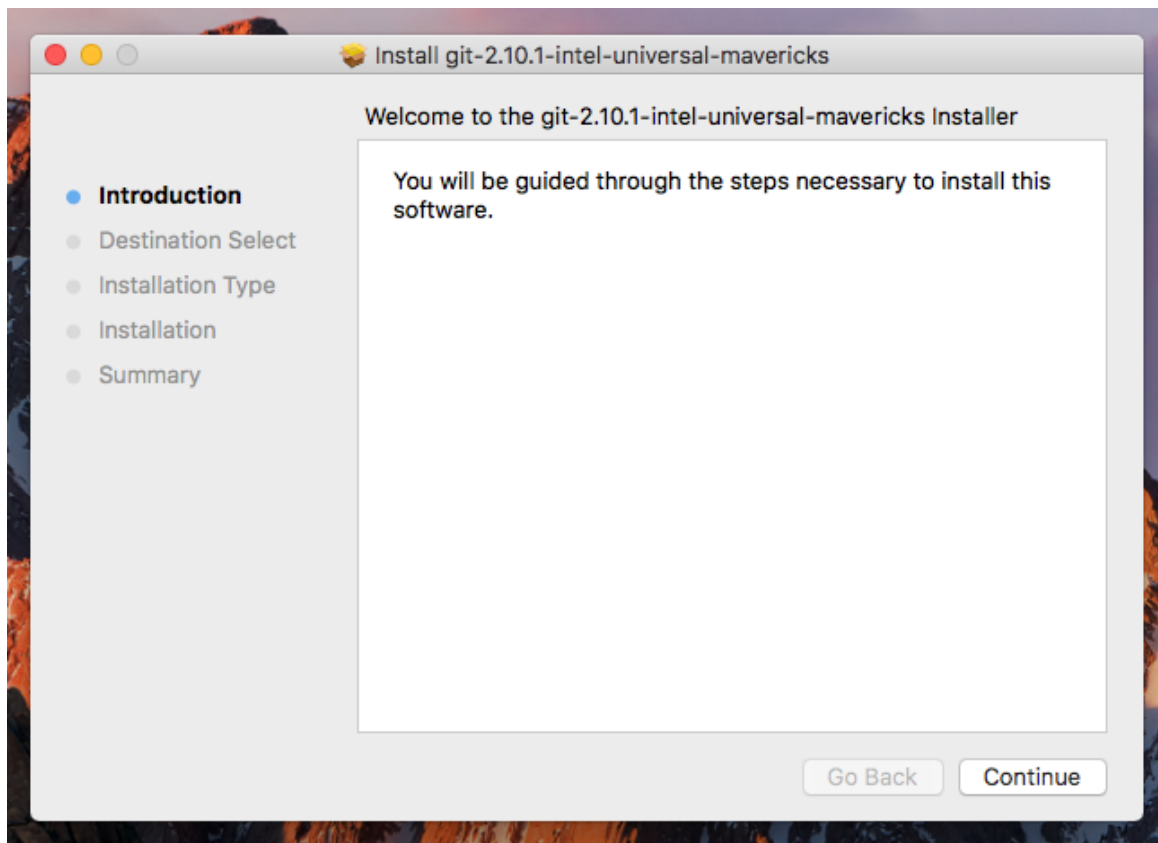
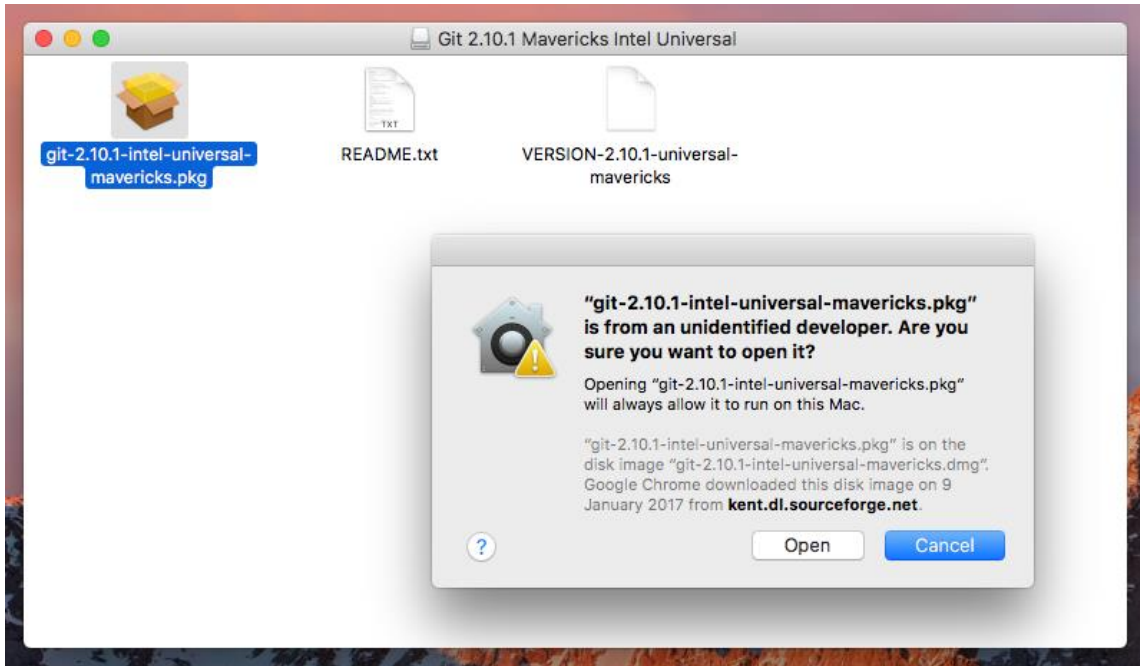
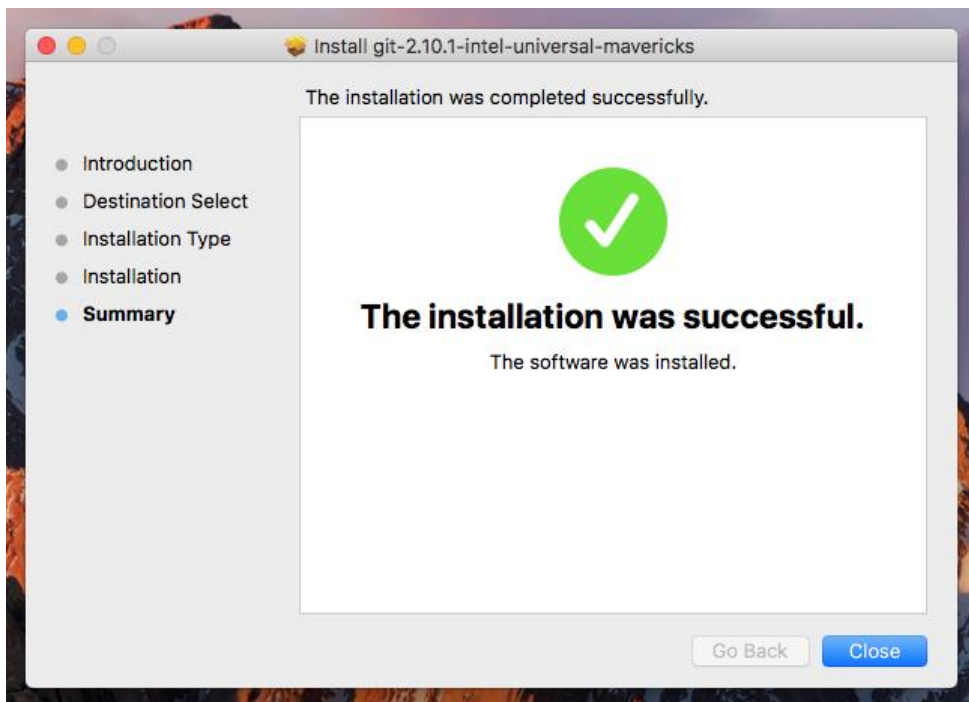
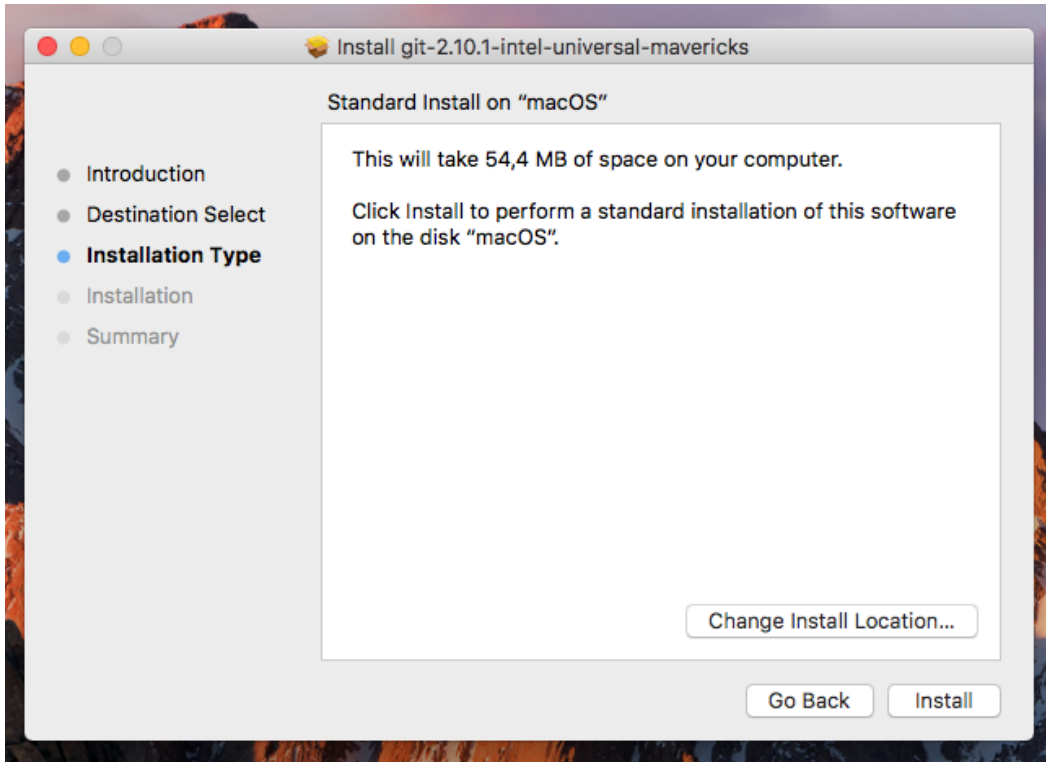


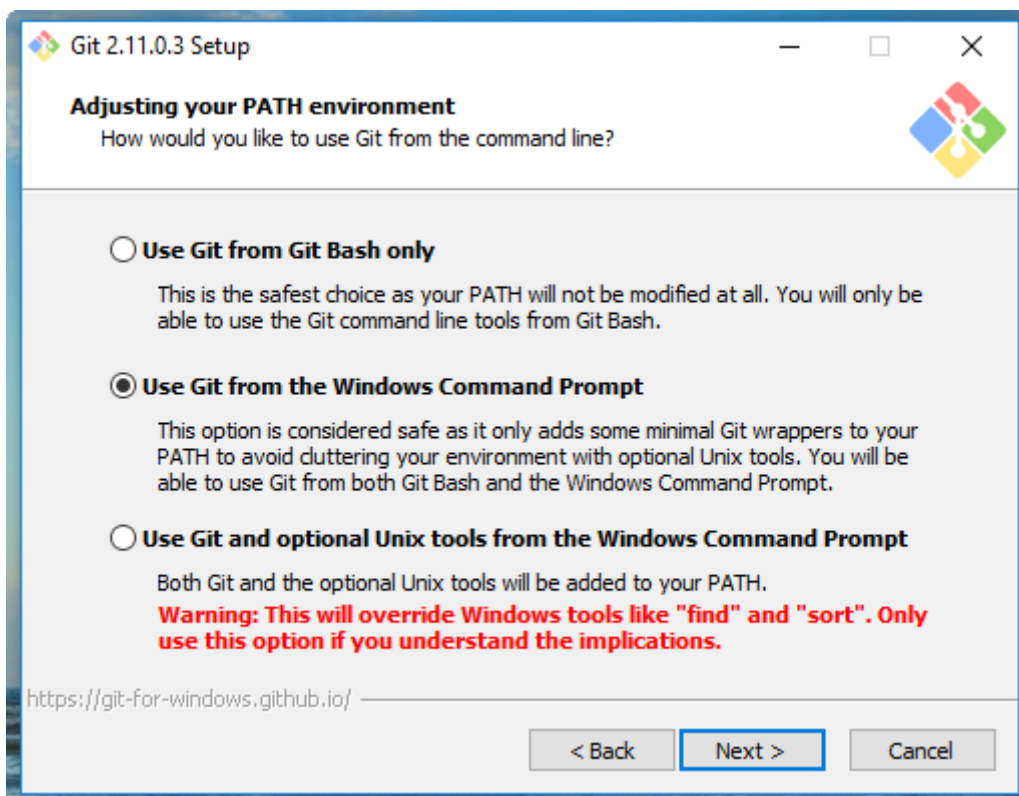
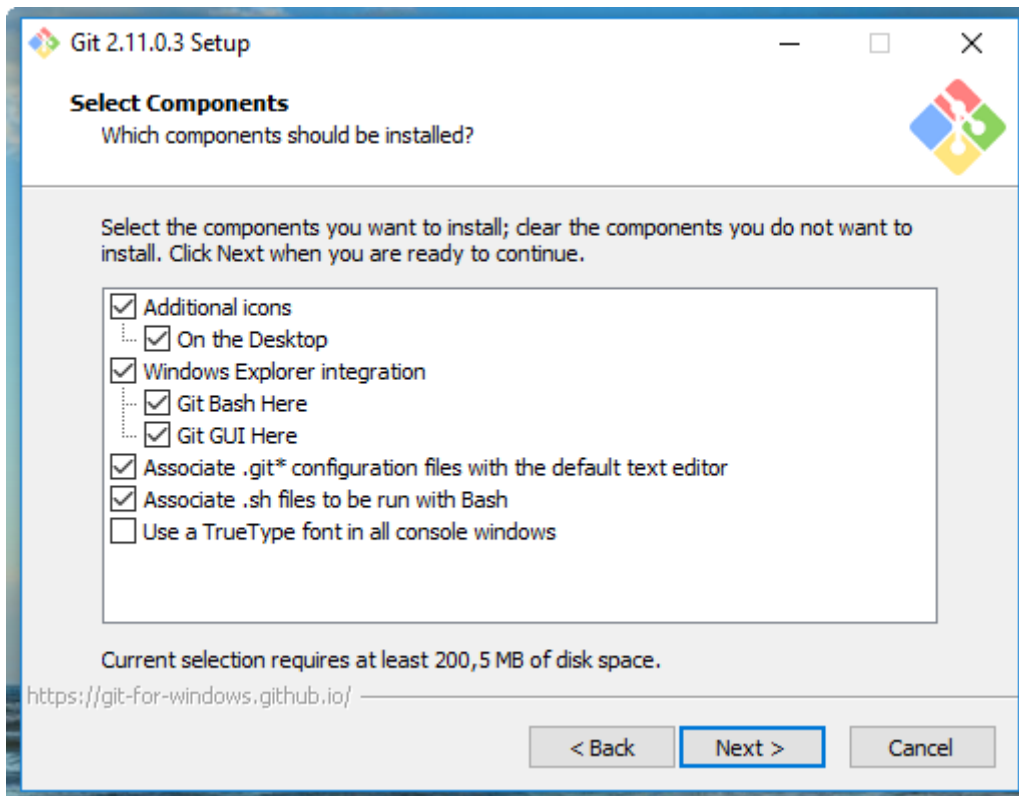
Chapter 1: Getting started with Git

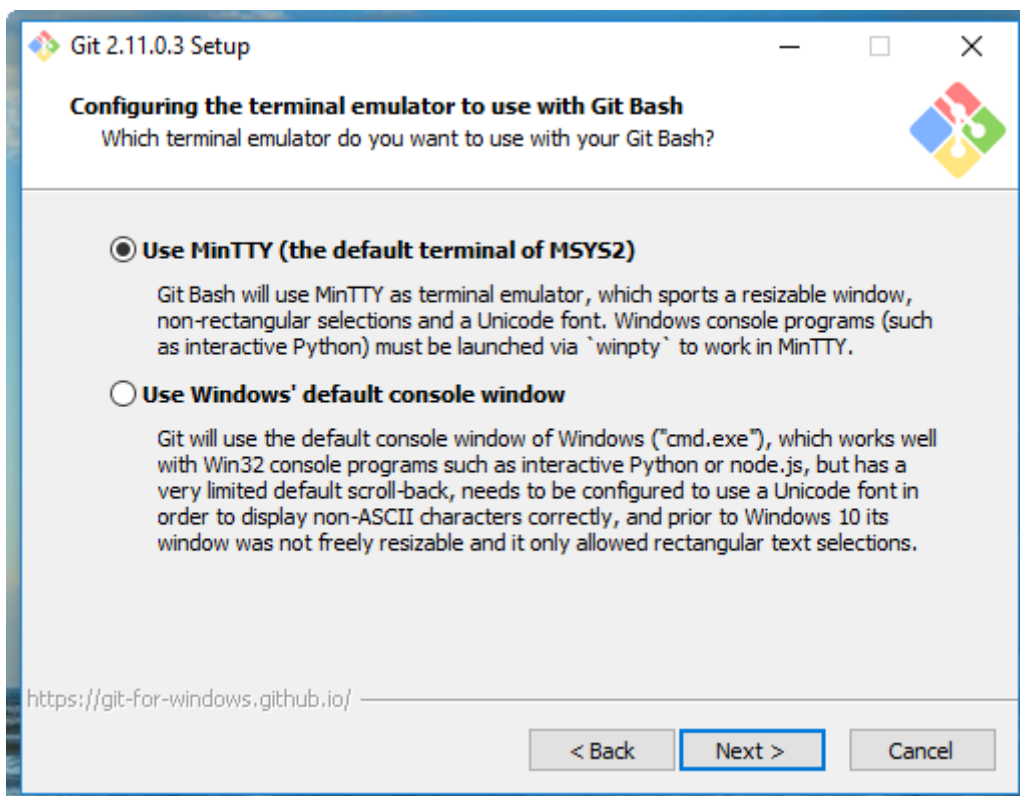
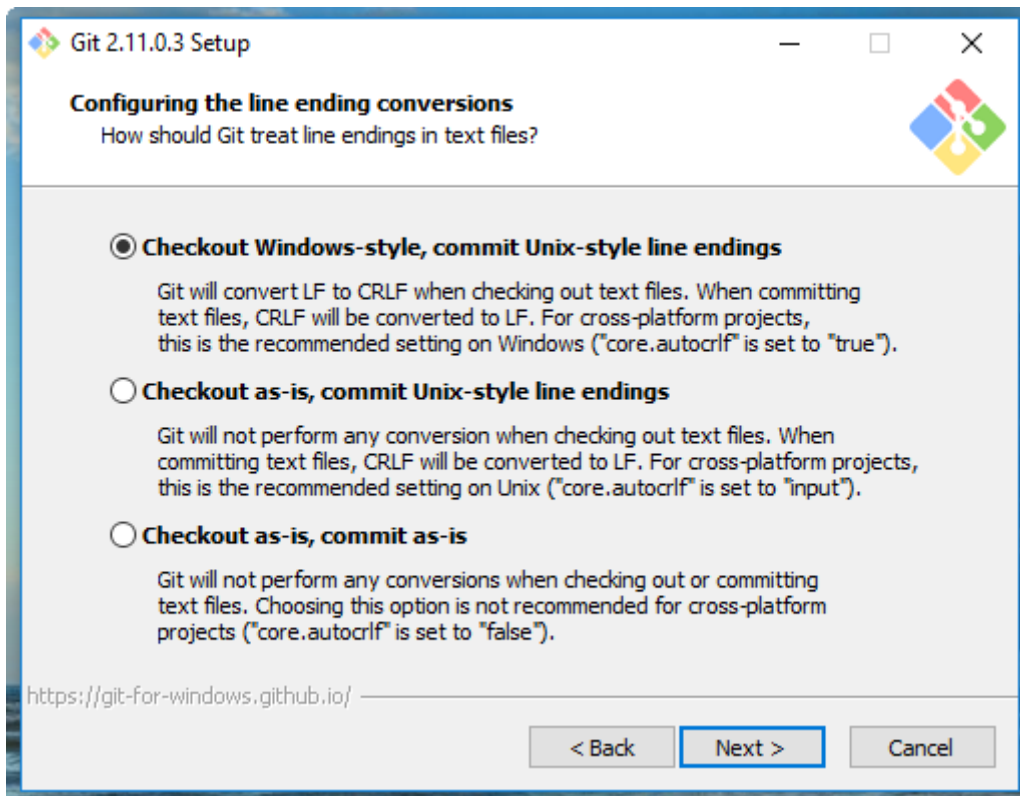
```
nando@kubu:~$ git
The program 'git' is currently not installed. You can install it by typing:
sudo apt install git
nando@kubu:~$ sudo apt install git
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  linux-headers-4.4.0-31 linux-headers-4.4.0-31-generic linux-image-4.4.0-31-generic linux-image-extra-4.4.0-31-generic
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  git-man liberror-perl
Suggested packages:
  git-daemon-run | git-daemon-sysvinit git-doc git-el git-email git-gui gitk gitweb git-arch git-cvs git-mediawiki git-svn
The following NEW packages will be installed:
  git git-man liberror-perl
0 upgraded, 3 newly installed, 0 to remove and 3 not upgraded.
Need to get 3.760 kB of archives.
After this operation, 25,6 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://it.archive.ubuntu.com/ubuntu xenial/main amd64 liberror-perl all 0.17-1.2 [19,6 kB]
Get:2 http://it.archive.ubuntu.com/ubuntu xenial/main amd64 git-man all 1:2.7.4-0ubuntu1 [735 kB]
Get:3 http://it.archive.ubuntu.com/ubuntu xenial/main amd64 git amd64 1:2.7.4-0ubuntu1 [3.006 kB]
Fetched 3.760 kB in 7s (509 kB/s)
Selecting previously unselected package liberror-perl.
(Reading database ... 223060 files and directories currently installed.)
Preparing to unpack .../liberror-perl_0.17-1.2_all.deb ...
Unpacking liberror-perl (0.17-1.2) ...
Selecting previously unselected package git-man.
Preparing to unpack .../git-man_1%3a2.7.4-0ubuntu1_all.deb ...
Unpacking git-man (1:2.7.4-0ubuntu1) ...
Selecting previously unselected package git.
Preparing to unpack .../git_1%3a2.7.4-0ubuntu1_amd64.deb ...
Unpacking git (1:2.7.4-0ubuntu1) ...
Processing triggers for man-db (2.7.5-1) ...
Setting up liberror-perl (0.17-1.2) ...
Setting up git-man (1:2.7.4-0ubuntu1) ...
Setting up git (1:2.7.4-0ubuntu1) ...
nando@kubu:~$ git --version
git version 2.7.4
nando@kubu:~$
```

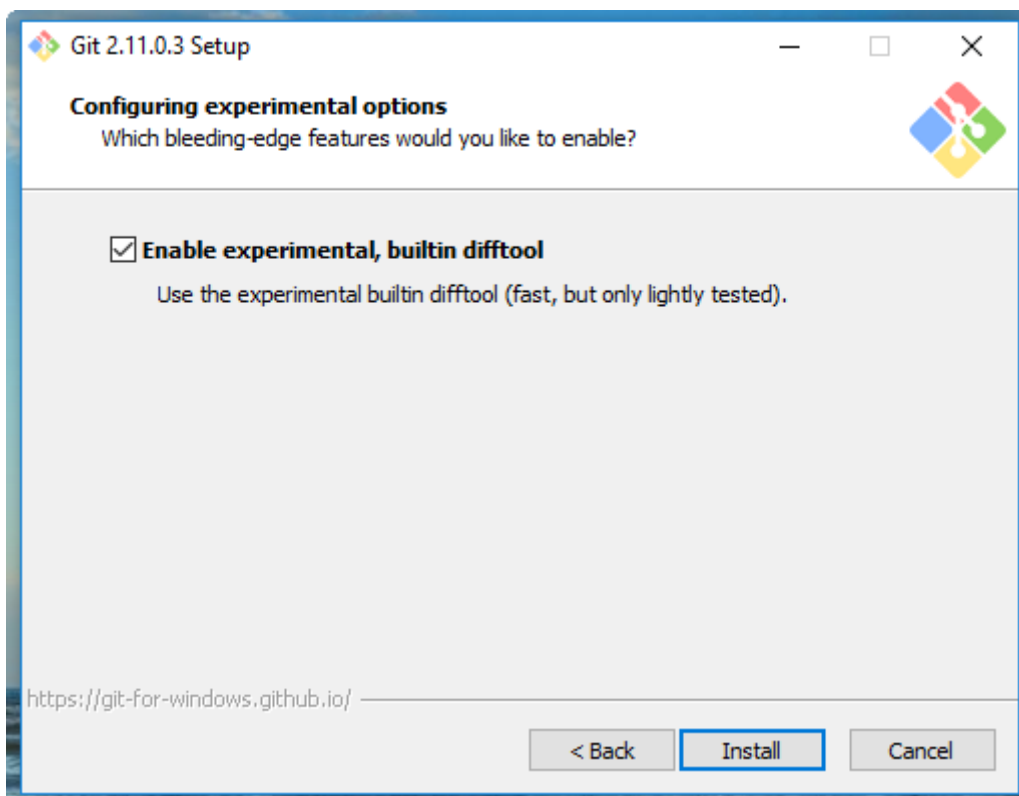
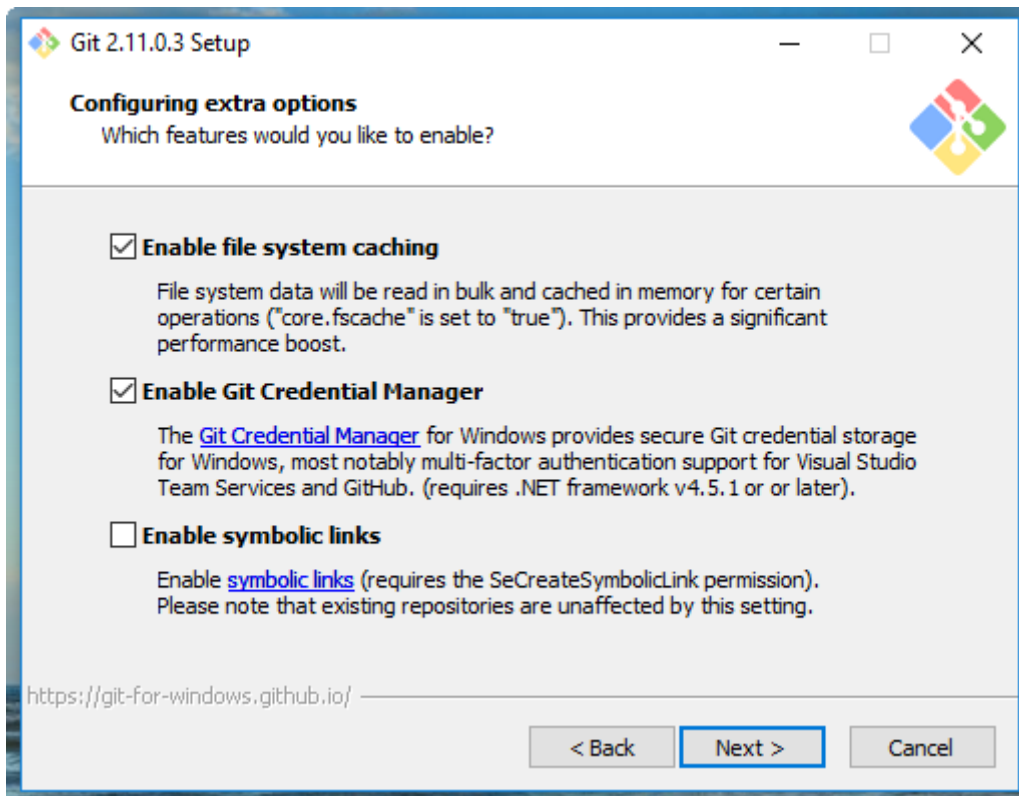


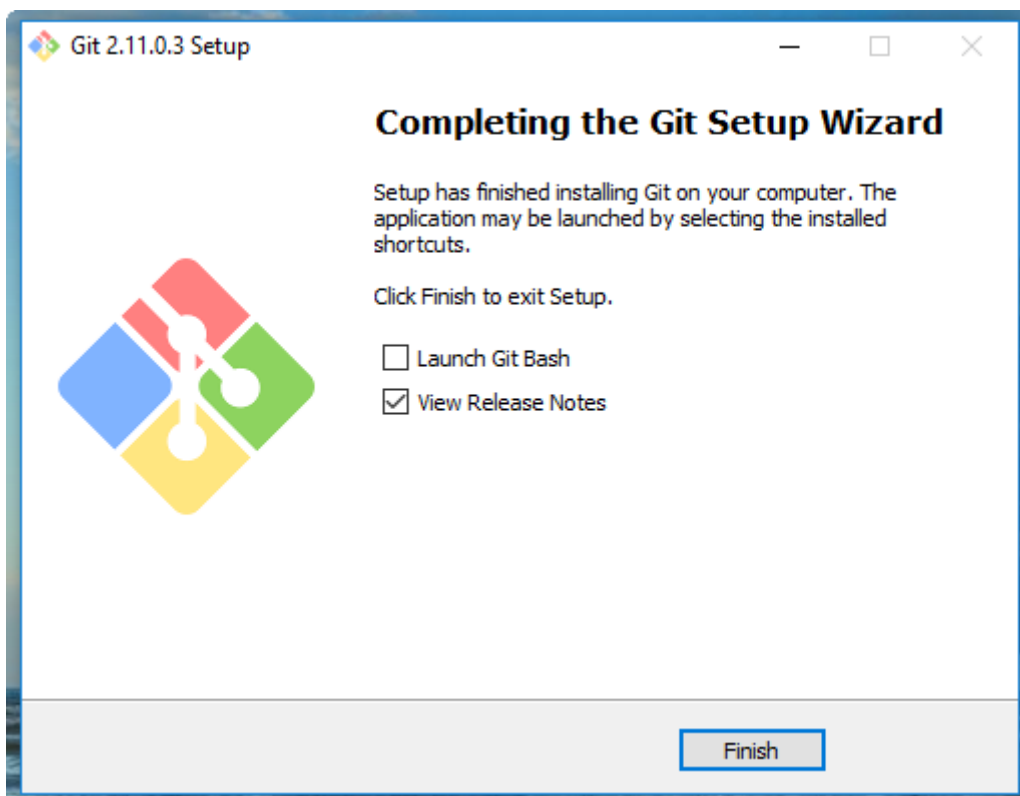
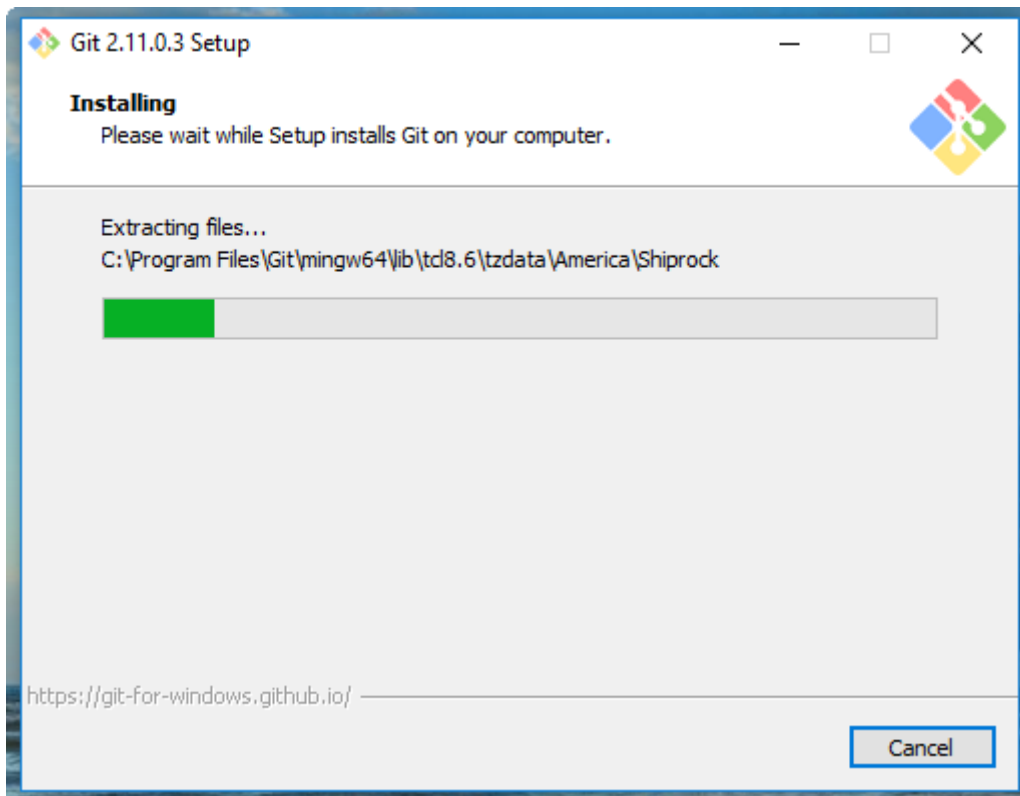













```
nando@computer MINGW64 /c/Users/nando
$ |
```

```
nando@computer MINGW64 /c/Users/nando
$ git
usage: git [--version] [--help] [-C <path>] [-c name=value]
      [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
      [-p | --paginate | --no-pager] [--no-replace-objects] [--bare]
      [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
      <command> [<args>]

These are common Git commands used in various situations:

start a working area (see also: git help tutorial)
  clone      Clone a repository into a new directory
  init       Create an empty Git repository or reinitialize an existing one

work on the current change (see also: git help everyday)
  add        Add file contents to the index
  mv         Move or rename a file, a directory, or a symlink
  reset      Reset current HEAD to the specified state
  rm         Remove files from the working tree and from the index

examine the history and state (see also: git help revisions)
  bisect     Use binary search to find the commit that introduced a bug
  grep      Print lines matching a pattern
  log        Show commit logs
  show      Show various types of objects
  status    Show the working tree status

grow, mark and tweak your common history
  branch     List, create, or delete branches
  checkout   Switch branches or restore working tree files
  commit     Record changes to the repository
  diff       Show changes between commits, commit and working tree, etc
  merge      Join two or more development histories together
  rebase     Reapply commits on top of another base tip
  tag        Create, list, delete or verify a tag object signed with GPG

collaborate (see also: git help workflows)
  fetch      Download objects and refs from another repository
  pull       Fetch from and integrate with another repository or a local branch
  push       Update remote refs along with associated objects

'git help -a' and 'git help -g' list available subcommands and some
concept guides. See 'git help <command>' or 'git help <concept>'
to read about a specific subcommand or concept.

nando@computer MINGW64 /c/Users/nando
$ |
```



```
MINGW64:/home
nando@computer MINGW64 ~
$ git config --global user.name "Ferdinando Santacroce"

nando@computer MINGW64 ~
$ git config --global user.email "ferdinando.santacroce@gmail.com"

nando@computer MINGW64 ~
$
```

```
MINGW64:/c/Repos/MyFirstRepo
[1] ~
$ cd /c/Repos/MyFirstRepo/

[2] /c/Repos/MyFirstRepo
$ git init
Initialized empty Git repository in C:/Repos/MyFirstRepo/.git/

[3] /c/Repos/MyFirstRepo (master)
$
```

This PC > Local Disk (C:) > Repos > MyFirstRepo > .git

Name	Date modified	Type	Size
hooks	15/10/2014 23:05	File folder	
info	15/10/2014 23:05	File folder	
objects	15/10/2014 23:05	File folder	
refs	15/10/2014 23:05	File folder	
config	15/10/2014 23:05	File	1 KB
description	15/10/2014 23:05	File	1 KB
HEAD	15/10/2014 23:05	File	1 KB

```
MINGW64:/c/Repos/MyFirstRepo
[3] /c/Repos/MyFirstRepo (master)
$ echo "Git rocks!" >> file.txt

[4] /c/Repos/MyFirstRepo (master)
$
```

```
MINGW64:/c/Repos/MyFirstRepo
[4] /c/Repos/MyFirstRepo (master)
$ git add file.txt

[5] /c/Repos/MyFirstRepo (master)
$
```

```
MINGW64:/c/Repos/MyFirstRepo
[5] /c/Repos/MyFirstRepo (master)
$ git status
On branch master

Initial commit

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)

        new file:   file.txt

[6] /c/Repos/MyFirstRepo (master)
$
```

```
MINGW64:/c/Repos/MyFirstRepo
[6] /c/Repos/MyFirstRepo (master)
$ git commit --message "First commit"
[master (root-commit) 356a954] First commit
 1 file changed, 1 insertion(+)
 create mode 100644 file.txt

[7] /c/Repos/MyFirstRepo (master)
$
```

```
MINGW64:/c/Repos/MyFirstRepo
[7] /c/Repos/MyFirstRepo (master)
$ echo "That's easy!" >> file.txt

[8] /c/Repos/MyFirstRepo (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   file.txt

no changes added to commit (use "git add" and/or "git commit -a")

[9] /c/Repos/MyFirstRepo (master)
$
```

```
MINGW64:/c/Repos/MyFirstRepo
[9] /c/Repos/MyFirstRepo (master)
$ git commit
On branch master
Changes not staged for commit:
        modified:   file.txt

no changes added to commit

[10] /c/Repos/MyFirstRepo (master)
$ git add file.txt

[11] /c/Repos/MyFirstRepo (master)
$ git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        modified:   file.txt

[12] /c/Repos/MyFirstRepo (master)
$ |
```

```
MINGW64:/c/Repos/MyFirstRepo
[12] /c/Repos/MyFirstRepo (master)
$ git commit|
```

```
MINGW64:/c/Repos/MyFirstRepo
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
# On branch master
# Changes to be committed:
#   modified:   file.txt
#
~
~
~
/c/Repos/MyFirstRepo/.git/COMMIT_EDITMSG [unix] (16:56 21/01/2017)1,0-1 All
```

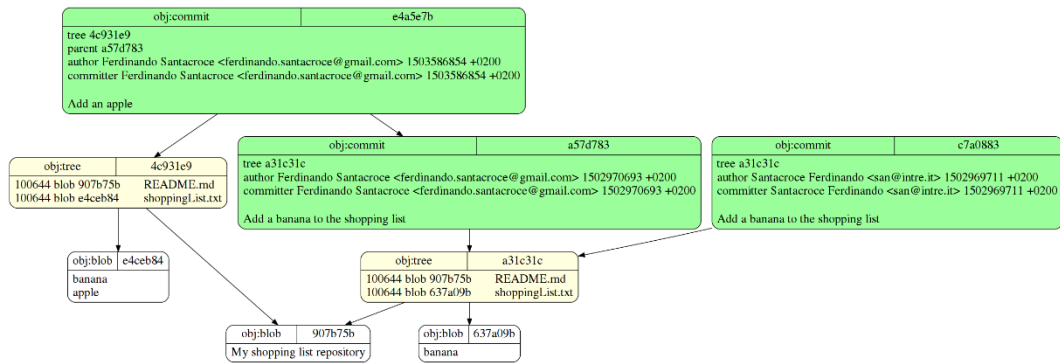
```
MINGW64:/c/Repos/MyFirstRepo
Thing are becoming serious :D
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
# On branch master
# Changes to be committed:
#   modified:   file.txt
#
~
~
~
<Repos/MyFirstRepo/.git/COMMIT_EDITMSG[+] [unix] (16:56 21/01/2017)1,30 All
-- INSERT --
```

```
MINGW64:/c/Repos/MyFirstRepo
Thing are becoming serious :D
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
# On branch master
# Changes to be committed:
#   modified:   file.txt
#
~
~
~
<Repos/MyFirstRepo/.git/COMMIT_EDITMSG[+] [unix] (16:56 21/01/2017)1,29 All
:wq
```

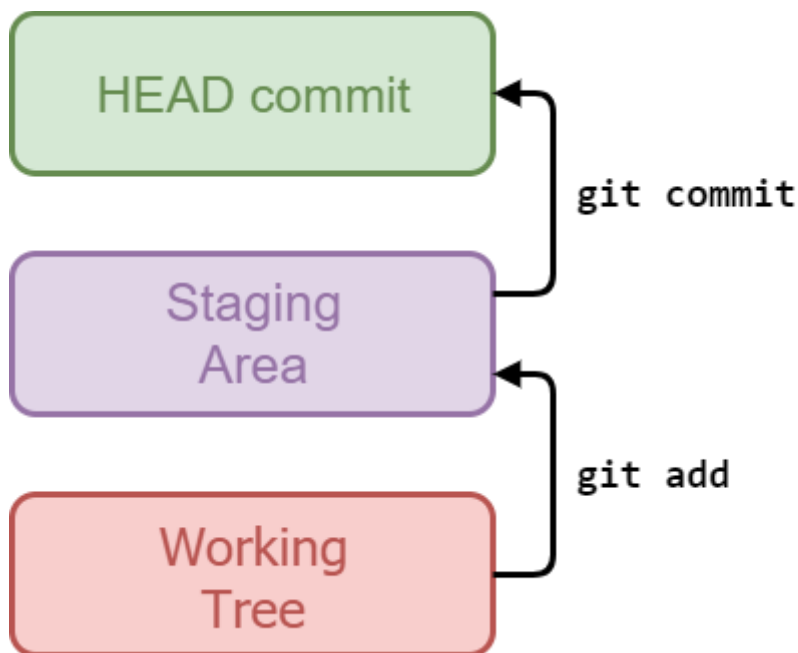
```
MINGW64:/c/Repos/MyFirstRepo
[11] /c/Repos/MyFirstRepo (master)
$ git commit
[master 1a0bf2e] Thing are becoming serious :D
1 file changed, 1 insertion(+)

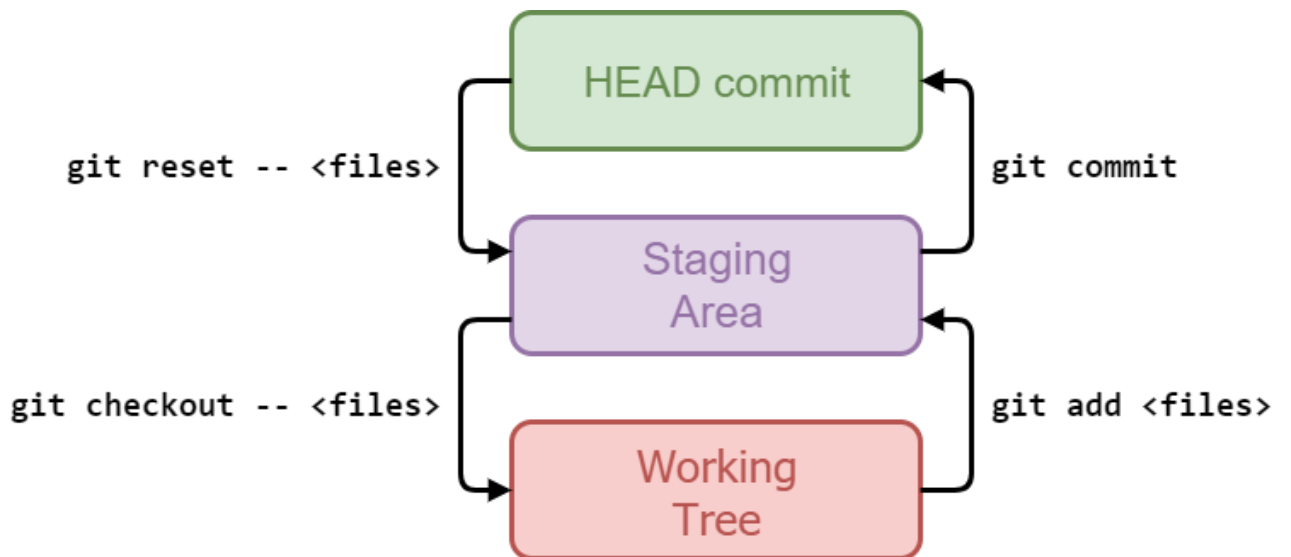
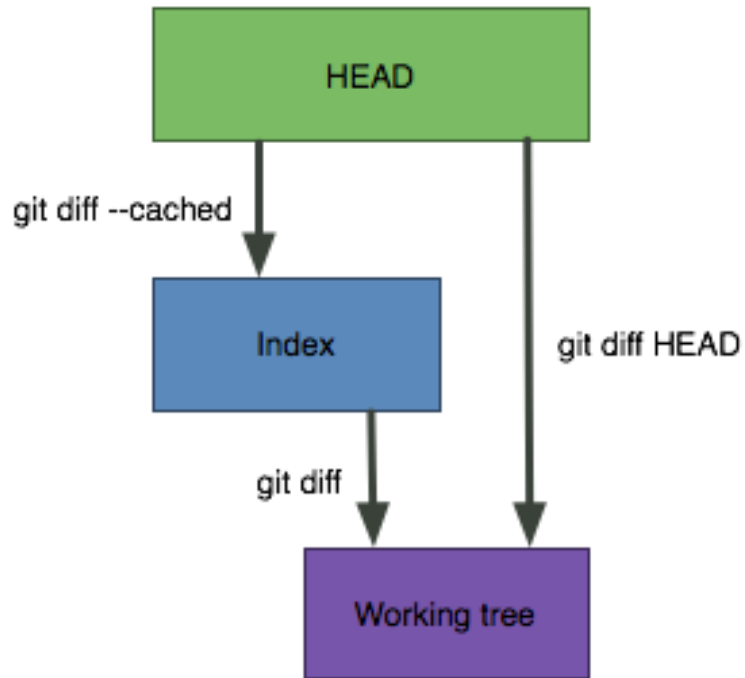
[13] /c/Repos/MyFirstRepo (master)
$
```

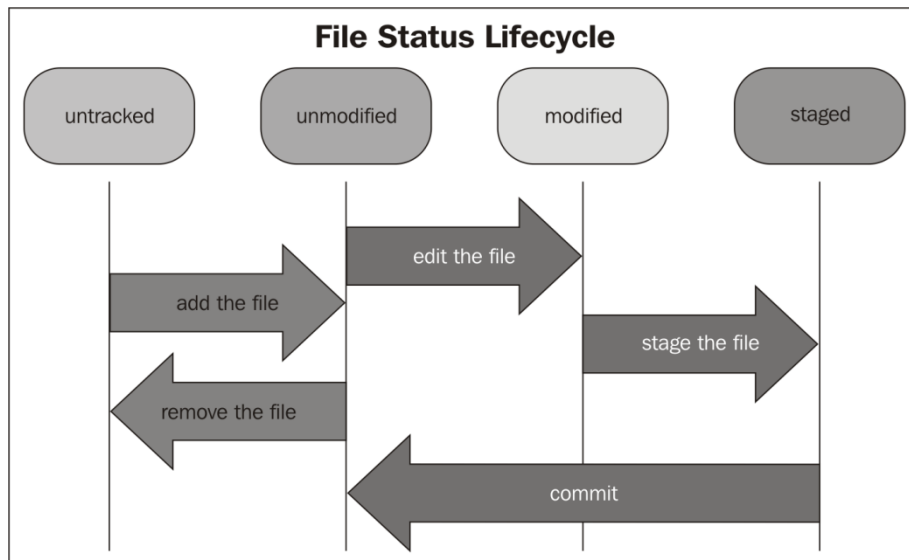
Chapter 2: Git Fundamentals - Working Locally



```
MINGW64:/home/grocery
This is an annotated tag
#
# Write a message for tag:
# annotatedTag
# Lines starting with '#' will be ignored.
~
~/grocery/.git/TAG EDITMSG[+] [unix] (17:44 26/08/2017) 1,3 All
:wq
```







```

MINGW64:/home/grocery
pick edac12c Add half a grape
pick 4142ad9 Add the other half of the grape

# Rebase 603b9d1..4142ad9 onto 603b9d1 (2 commands)
#
# Commands:
# p, pick = use commit
# r, reword = use commit, but edit the commit message
# e, edit = use commit, but stop for amending
# s, squash = use commit, but meld into previous commit
# f, fixup = like "squash", but discard this commit's log message
# x, exec = run command (the rest of the line) using shell
# d, drop = remove commit
#
# These lines can be re-ordered; they are executed from top to bottom.
#
# If you remove a line here THAT COMMIT WILL BE LOST.
#
# However, if you remove everything, the rebase will be aborted.
#
# Note that empty commits are commented out
~
~
~/grocery/.git/rebase-merge/git-rebase-todo [unix] (14:10 26/08/2017) 1,1 All
  
```

```
MINGW64:/home/grocery
reword edac12c Add half a grape
f 4142ad9 Add the other half of the grape

# Rebase 603b9d1..4142ad9 onto 603b9d1 (2 commands)
#
# Commands:
# p, pick = use commit
# r, reword = use commit, but edit the commit message
# e, edit = use commit, but stop for amending
# s, squash = use commit, but meld into previous commit
# f, fixup = like "squash", but discard this commit's log message
# x, exec = run command (the rest of the line) using shell
# d, drop = remove commit
#
# These lines can be re-ordered; they are executed from top to bottom.
#
# If you remove a line here THAT COMMIT WILL BE LOST.
#
# However, if you remove everything, the rebase will be aborted.
#
# Note that empty commits are commented out
~
~
~/grocery/.git/rebase-merge/git-rebase-todo[+] [unix] (14:10 26/08/2017)2,6 All
:wq
```

```
MINGW64:/home/grocery
Add half a grape

# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# Date:      Sat Aug 26 14:00:58 2017 +0200
#
# interactive rebase in progress; onto 603b9d1
# Last command done (1 command done):
#   reword edac12c Add half a grape
# Next command to do (1 remaining command):
#   f 4142ad9 Add the other half of the grape
# You are currently editing a commit while rebasing branch 'master' on '603b9d1'.
#
# Changes to be committed:
#   modified:   shoppingList.txt
#
~
~/grocery/.git/COMMIT_EDITMSG [unix] (14:44 26/08/2017) 1,1 All
```

```
MINGW64:/home/grocery
Add a grape
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# Date:      Sat Aug 26 14:00:58 2017 +0200
#
# interactive rebase in progress; onto 603b9d1
# Last command done (1 command done):
#   reword edac12c Add half a grape
# Next command to do (1 remaining command):
#   f 4142ad9 Add the other half of the grape
# You are currently editing a commit while rebasing branch 'master' on '603b9d1'.
#
# Changes to be committed:
#   modified:   shoppingList.txt
#
~
~/grocery/.git/COMMIT_EDITMSG[+] [unix] (14:44 26/08/2017) 11,5 All
:wq
```

```
MINGW64:/home/grocery
banana
apple
orange
<<<<<<< HEAD
peach
grape
=====
walnut
>>>>>>> Add a walnut
~
~/grocery/shoppingList.txt [unix] (21:14 09/09/2017) 8,6 All
:wq
```

```
MINGW64:/home/grocery
banana
apple
orange
peach
grape
walnut
~
~/grocery/shoppingList.txt [unix] (21:20 09/09/2017) 6,5 All
:wq
```

```
MINGW64:/home/grocery
banana
apple
orange
peach
grape
blackberry
watermelon|
~
~/grocery/shoppingList.txt[+] [unix] (15:22 26/08/2017) 7,11 All
-- INSERT --
```

```
MINGW64:/home/grocery
Merge branch 'melons' into berries
# Please enter a commit message to explain why this merge is necessary,
# especially if it merges an updated upstream into a topic branch.
#
# Lines starting with '#' will be ignored, and an empty message aborts
# the commit.
~
~/grocery/.git/MERGE_MSG [unix] (16:10 26/08/2017) 1,1 All
```

```
MINGW64:/home/grocery
banana
apple
orange
blackberry
peach
grape
~
~/grocery/shoppingList.txt [unix] (16:39 26/08/2017) 1,1 All
```

```
MINGW64:/home/grocery
Add a blackberry
(cherry picked from commit ef6c3821fdfa92b90bc9fc444befffc5326f4228)
# Conflicts:
#   shoppingList.txt
#
# It looks like you may be committing a cherry-pick.
# If this is not correct, please remove the file
#   .git/CHERRY_PICK_HEAD
# and try again.
#
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# Date:      Fri Aug 25 13:24:38 2017 +0200
#
# On branch master
# You are currently cherry-picking commit ef6c382.
#
# Changes to be committed:
#   modified:   shoppingList.txt
#
~
~
~/grocery/.git/COMMIT_EDITMSG [unix] (16:56 26/08/2017) 8,1 All
```

Chapter 3: Git Fundamentals - Working Remotely



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Pick a username

Your email

Create a password

Use at least one lowercase letter, one numeral, and seven characters.

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Ferdinando Santacroce
fsantacroce

📍 Italy
✉️ [ferdinando.santacroce@gmail...](mailto:ferdinando.santacroce@gmail.com)
🌐 <http://jesuswasrasta.com>
🕒 Joined on Nov 23, 2014

0 Followers 0 Starred 0 Following

[Contributions](#) [Repositories](#) [Public activity](#) [Edit profile](#)

Contributions

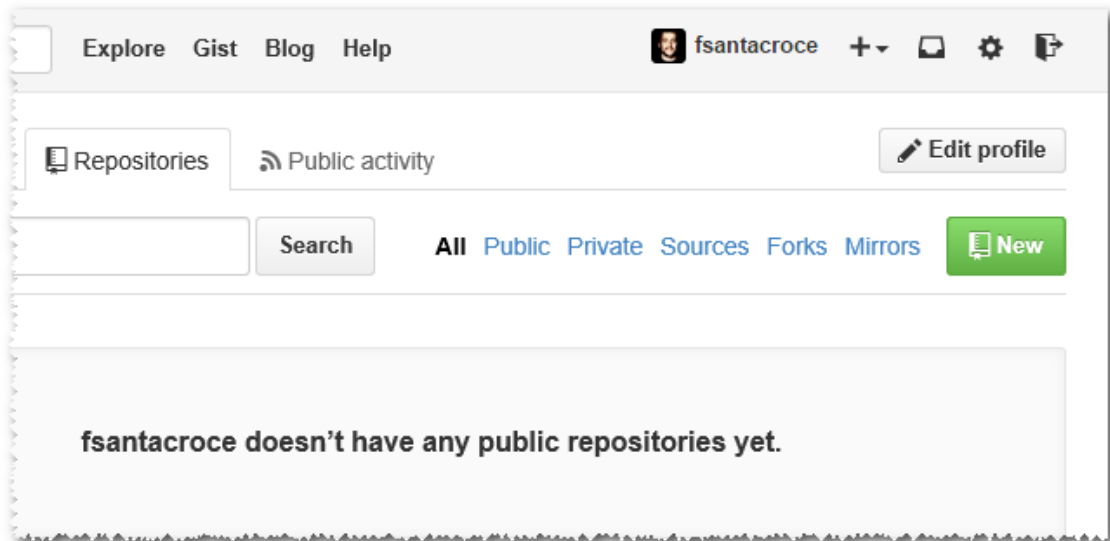
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
M												
W												
F												

Summary of Pull Requests, issues opened, and commits. [Learn more.](#) Less More

This is your **contribution graph**. When you make a commit to a repository, you'll get a for that day. Make more contributions and you'll get a darker green square. Over time, your chart might start looking [something like this](#).

We have a quick guide that will show you how to create your first repository. You'll also make a commit and **earn your first green square!**

[Read the Hello World guide](#)



Owner / Repository name

Great repository names are short and memorable. Need inspiration? How about **yolo-ironman**.

Description (optional)

Public
Anyone can see this repository. You choose who can commit.

Private
You choose who can see and commit to this repository.

Initialize this repository with a README
This will allow you to `git clone` the repository immediately. Skip this step if you have already run `git init` locally.

Add .gitignore: | Add a license: ⓘ

HTTPS clone URL

:acroce/Cookbook.git



You can clone with [HTTP](#) or [Subversion](#). ⓘ

Copy to clipboard

Clone in Desktop

Download ZIP

GitHub Login


GitHub
Login

fsantacroce

●●●●●●●●

Login Cancel

[Don't have an account? Sign up](#)
[Forgot your password?](#)


 This repository
 Pull requests Issues Marketplace Explore

fsantacroce / Cookbook
 Unwatch 1
Star 0
Fork 3

[Code](#)
[Issues 0](#)
[Pull requests 1](#)
[Projects 0](#)
[Wiki](#)
[Settings](#)
[Insights](#)

This repository contains recipes I like to share with my friends
 Edit

[Add topics](#)

3 commits
2 branches
0 releases
2 contributors

Branch: master

Ferdinando Santacroce Add a sentence to readme Latest commit 41bbe6 12 minutes ago


[README.md](#) Add a sentence to readme 12 minutes ago

README.md

Cookbook

This repository contains recipes I like to share with my friends. You will find traditional Italian recipes, often revamped by me.

Welcome into the 2nd edition of Git Essentials book!


 Search GitHub
 Pull requests Issues Marketplace Explore

Create a new repository

A repository contains all the files for your project, including the revision history.

Owner: / Repository name:

Great repository names are short and memorable. Need inspiration? How about [stunning-octo-sniffle](#).

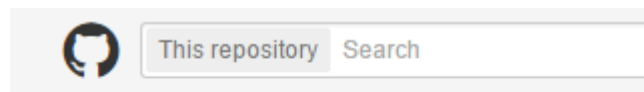
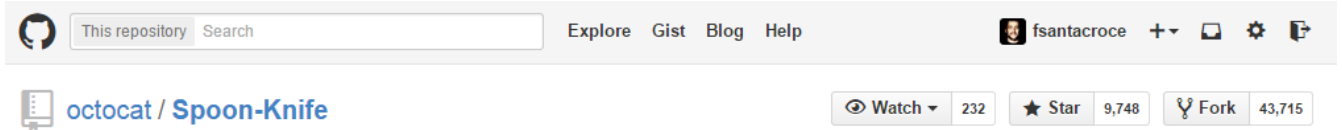
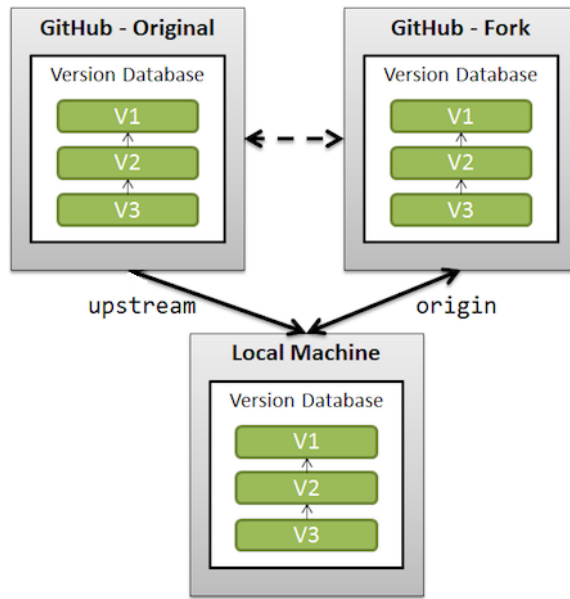
Description (optional):

- Public**
 Anyone can see this repository. You choose who can commit.
- Private**
 You choose who can see and commit to this repository.

Initialize this repository with a README
 This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

| [?](#)





This repository Pull requests Issues Marketplace Explore

fsantacroce / Spoon-Knife
forked from octocat/Spoon-Knife

Unwatch 1 Star 0 Fork 93,201

Code Pull requests 0 Projects 0 Wiki Settings Insights

This repo is for demonstration purposes only. Edit

Add topics

3 commits 4 branches 0 releases 1 contributor

Branch: master New pull request Create new file Upload files Find file Clone or download

This branch is even with octocat:master. Pull request Compare

octocat	Pointing to the guide for forking	Latest commit d0dd1f6 on Feb 13, 2014
README.md	Pointing to the guide for forking	4 years ago
index.html	Created index page for future collaborative edits	4 years ago
styles.css	Create styles.css and updated README	4 years ago

README.md

Well hello there!

This repository is meant to provide an example for *forking* a repository on GitHub.

Creating a *fork* is producing a personal copy of someone else's project. Forks act as a sort of bridge between the original repository and your personal copy. You can submit *Pull Requests* to help make other people's projects better by offering your changes up to the original project. Forking is at the core of social coding at GitHub.

After forking this repository, you can make some changes to the project, and submit a [Pull Request](#) as practice.

For some more information on how to fork a repository, [check out our guide, "Forking Projects"](#). Thanks! ❤️

This repository Pull requests Issues Marketplace Explore

octocat / Spoon-Knife

Watch 310 Star 9,998 Fork 93,201

Code Issues 773 Pull requests 5,000+ Projects 0 Wiki Insights

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).

base fork: octocat/Spoon-Knife base: master ... head fork: fsantacroce/Spoon-Knife compare: master

test #12724	No description available	request
changed #9216	Here are some changes...	request
update the title, add index back up file #8716	update the title, add index back up file	request
Masterrrr #8480	No description available	View pull request
added new file #5838	fasfd	View pull request

Choose a head branch

- Branch, tag, commit, or history marker
- TeaSpoon
- change-the-title
- master
- test-branch

There isn't anything to compare.
octocat:master and fsantacroce:master are identical.

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).

Comparison controls: base fork: octocat/Spoon-Knife, base: master, head fork: fsantacroce/Spoon-Knife, compare: TeaSpoon. Status: **✓ Able to merge.** These branches can be automatically merged.

Create pull request Discuss and review the changes in this comparison with others.

Summary: 1 commit, 1 file changed, 0 commit comments, 1 contributor.

Commits on Aug 27, 2017: Santacroce Ferdinando Add a TeaSpoon to the cutlery 62a99c9

Showing 1 changed file with 2 additions and 0 deletions. [Unified] [Split]

```
2 ■■■■■ TeaSpoon.md
... .. @@ -0,0 +1,2 @@
1   +# TeaSpoon
2   +This is only for pull requests testing purpose.
```

No commit comments for this range

Comparison controls: base fork: octocat/Spoon-Knife, base: master, head fork: fsantacroce/Spoon-Knife, compare: TeaSpoon. Status: **✓ Able to merge.** These branches can be automatically merged.

```
2 ■■■■■ TeaSpoon.md
... .. @@ -0,0 +1,2 @@
1   +# TeaSpoon
2   +This is only for pull requests testing purpose.
```

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

base fork: octocat/Spoon-Knife base: master ... head fork: fsantacroce/Spoon-Knife compare: TeaSpoon
✔ Able to merge. These branches can be automatically merged.



Add a TeaSpoon to the cutlery

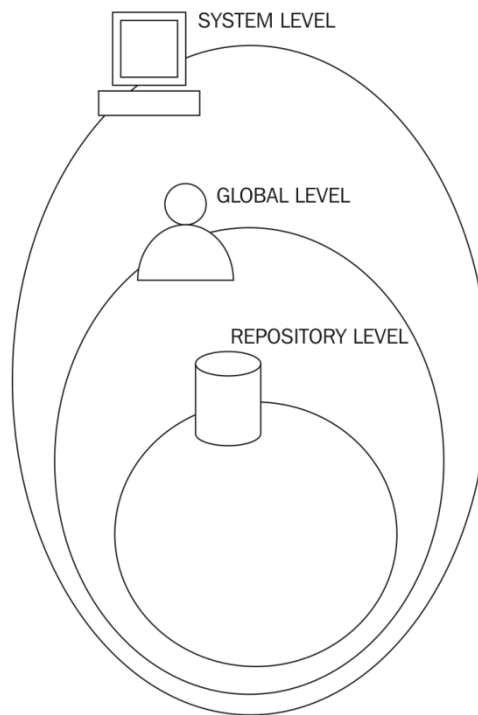
Write Preview AA B i “ < > ↻ ☰ ☰ ☰ ↶ @ 📌

Hello!
I extended the repository including a teaspoon: hope you find it useful 😊
Bye.
Nando|

Attach files by dragging & dropping, [selecting them](#), or pasting from the clipboard.

Allow edits from maintainers. [Learn more](#) Create pull request

Chapter 4: Git Fundamentals - Niche Concepts, Configurations, and Commands



```
39      trustExitCode = true
40
41 [help]
42     autocorrect = 10
43 [push]
44     default = tracking
45
```


Normal text file | length: 12


```
Git Gui (Spoon-Knife): File Viewer
Repository Edit Help
Commit: File: README.md
bb4c bb4c 1 ### Well hello there!
TO TO 2
| | 3 This repository is meant to provide an example for *forking* a repository on Git
| | 4
| | 5 Creating a *fork* is producing a personal copy of someone else's project. Forks a
| | 6
| | 7 After forking this repository, you can make some changes to the project, and subm
| | 8
d0dd d0dd 9 For some more information on how to fork a repository, [check out our guide, "For
< >
commit bb4cc8d3b2e14b3af5df699876dd4ff3acd00b7f
Author: The Octocat <octocat@nowhere.com> Tue Feb 4 23:38:36 2014
Committer: The Octocat <octocat@nowhere.com> Thu Feb 13 00:18:55 2014
Create styles.css and updated README
< >
Annotation complete.
```

Chapter 5: Obtaining the Most - Good Commits and Workflows

	COMMENT	DATE
○	CREATED MAIN LOOP & TIMING CONTROL	14 HOURS AGO
○	ENABLED CONFIG FILE PARSING	9 HOURS AGO
○	MISC BUGFIXES	5 HOURS AGO
○	CODE ADDITIONS/EDITS	4 HOURS AGO
○	MORE CODE	4 HOURS AGO
○	HERE HAVE CODE	4 HOURS AGO
○	AAAAAAAAA	3 HOURS AGO
○	ADKFJSLKDFJSDKLFJ	3 HOURS AGO
○	MY HANDS ARE TYPING WORDS	2 HOURS AGO
○	HAAAAAAAAAANDS	2 HOURS AGO

AS A PROJECT DRAGS ON, MY GIT COMMIT MESSAGES GET LESS AND LESS INFORMATIVE.



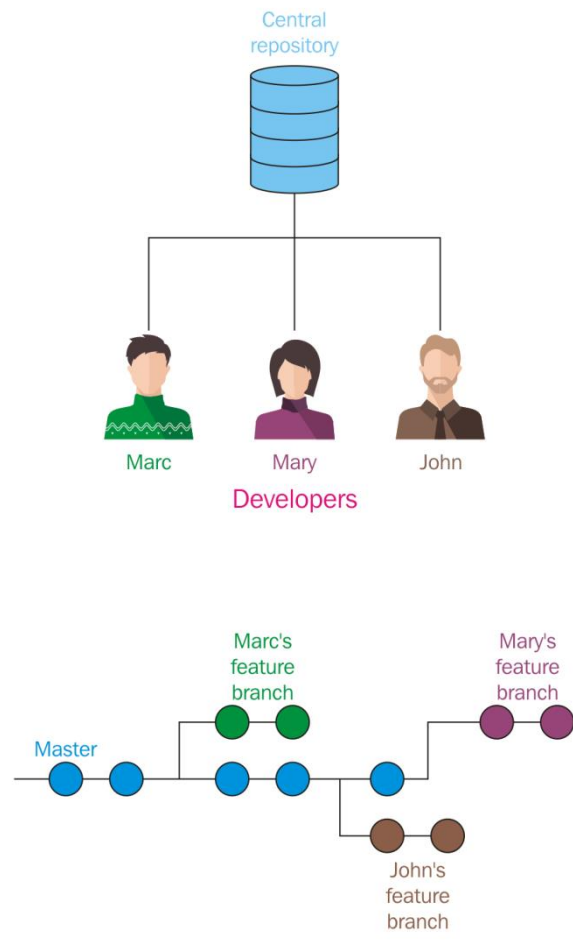
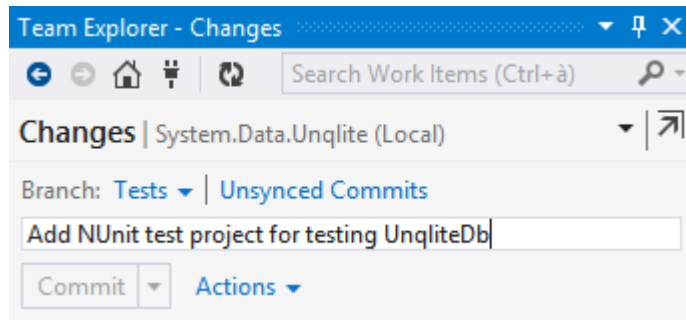
Username

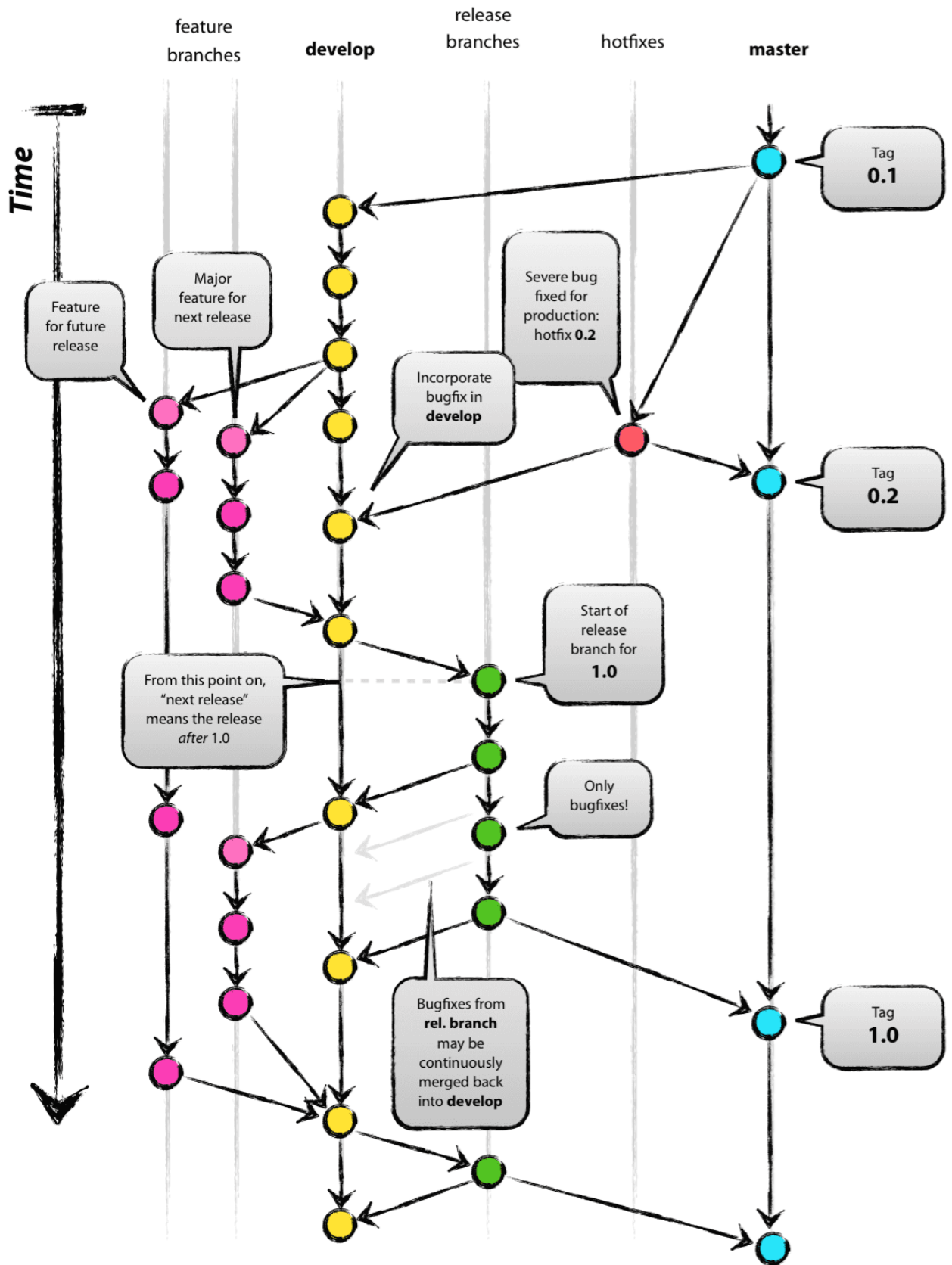
Password

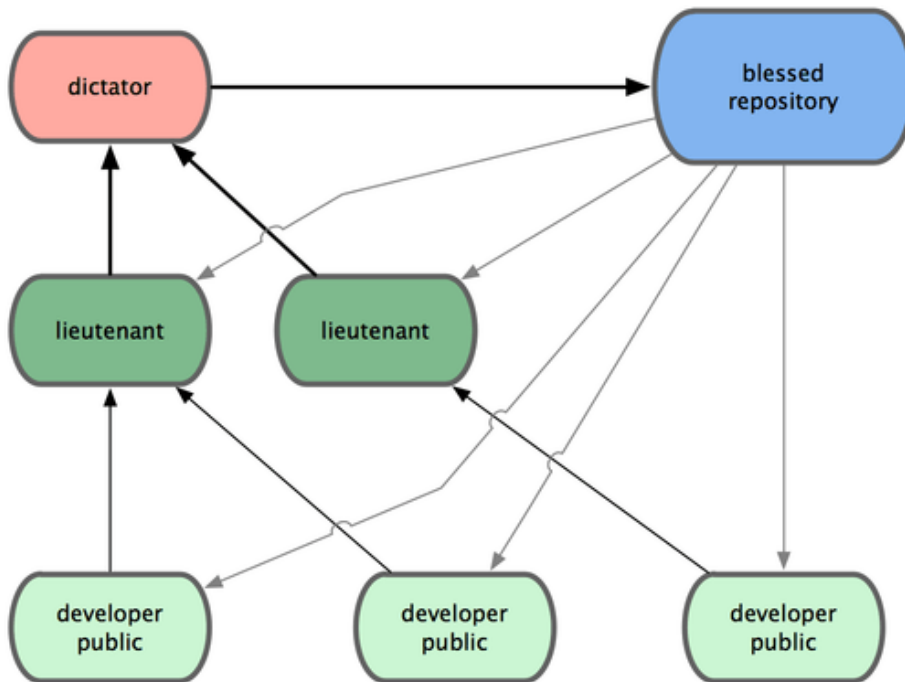
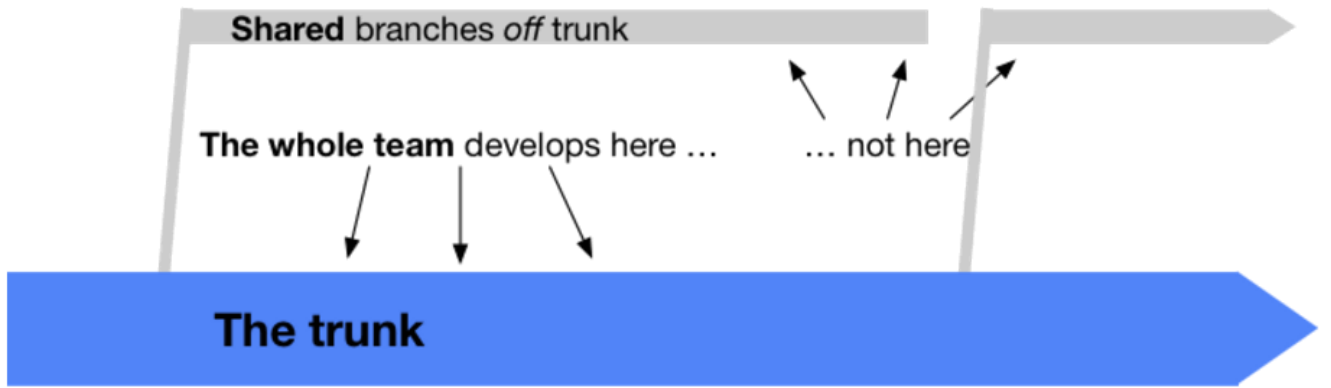
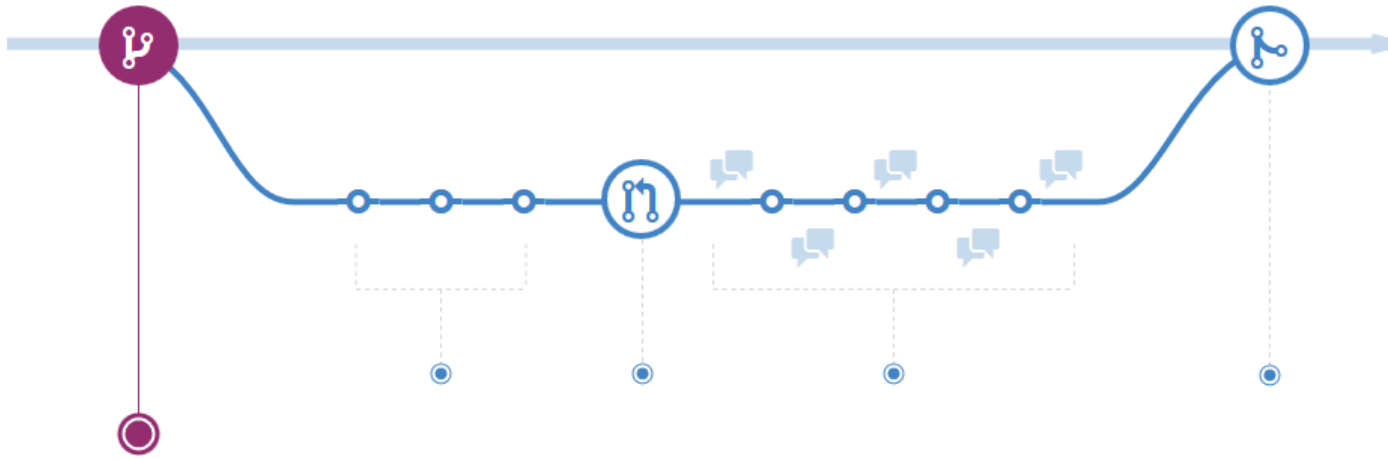
Remember Me

"Remember me feature"

- Add check to page
- Pass checked to layer below
- ...



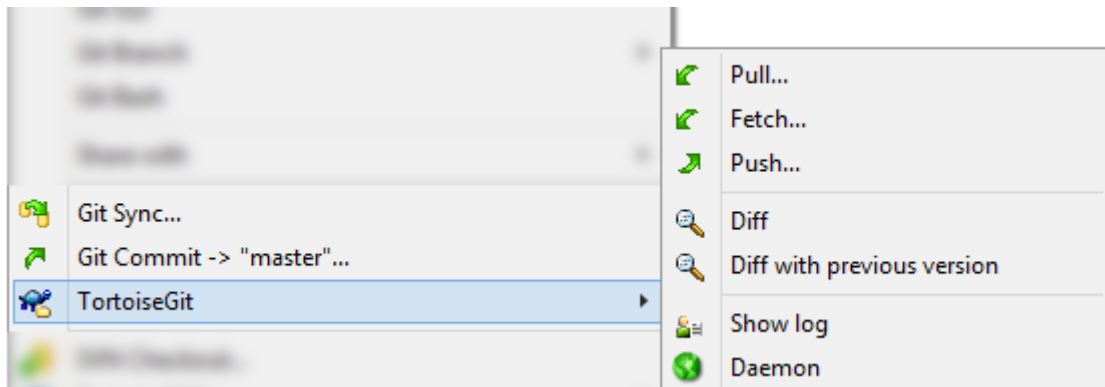
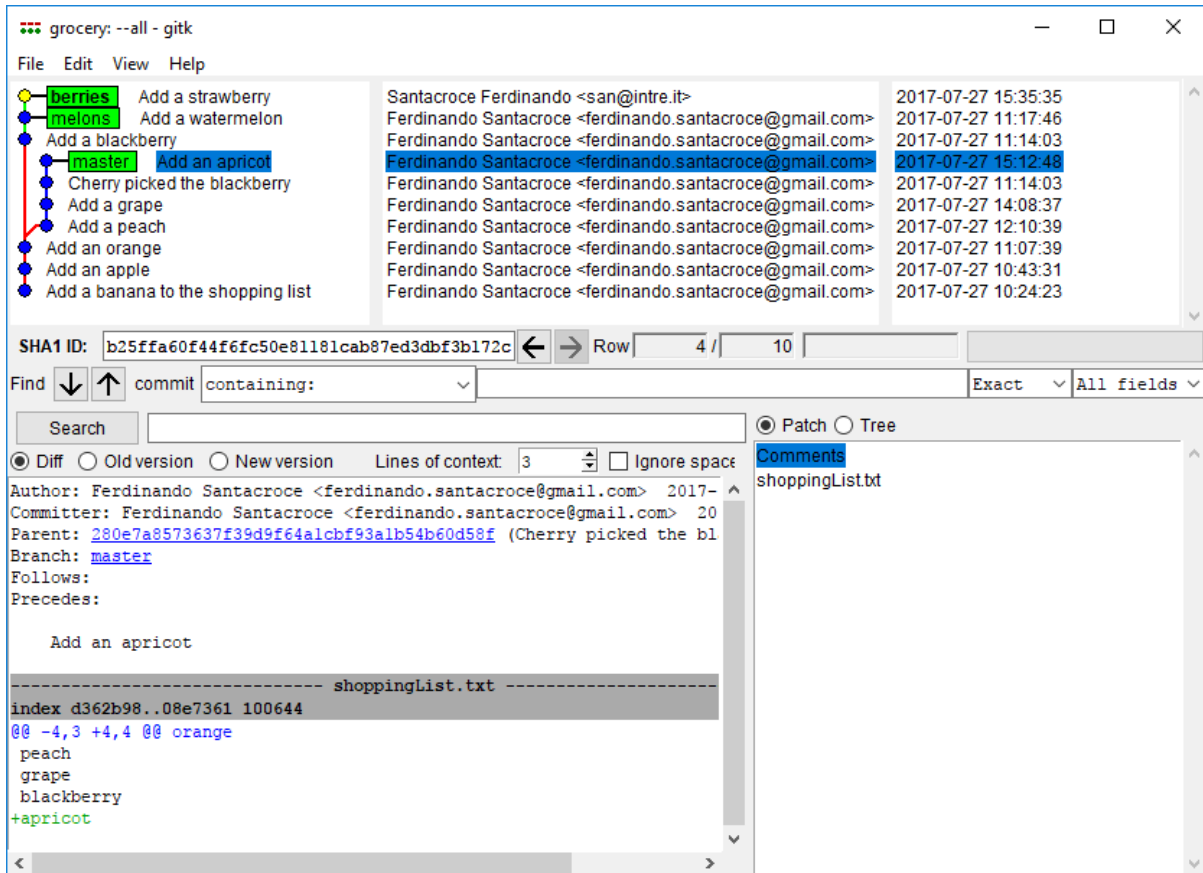


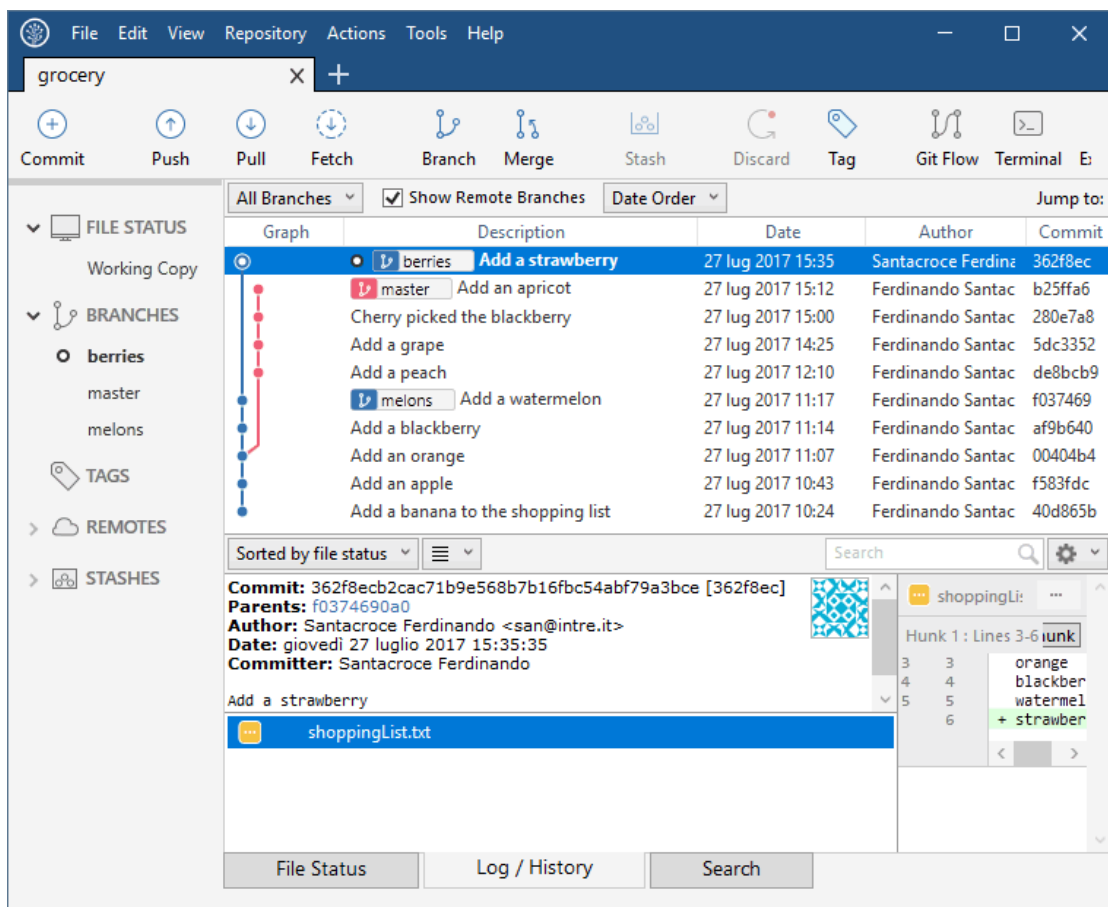
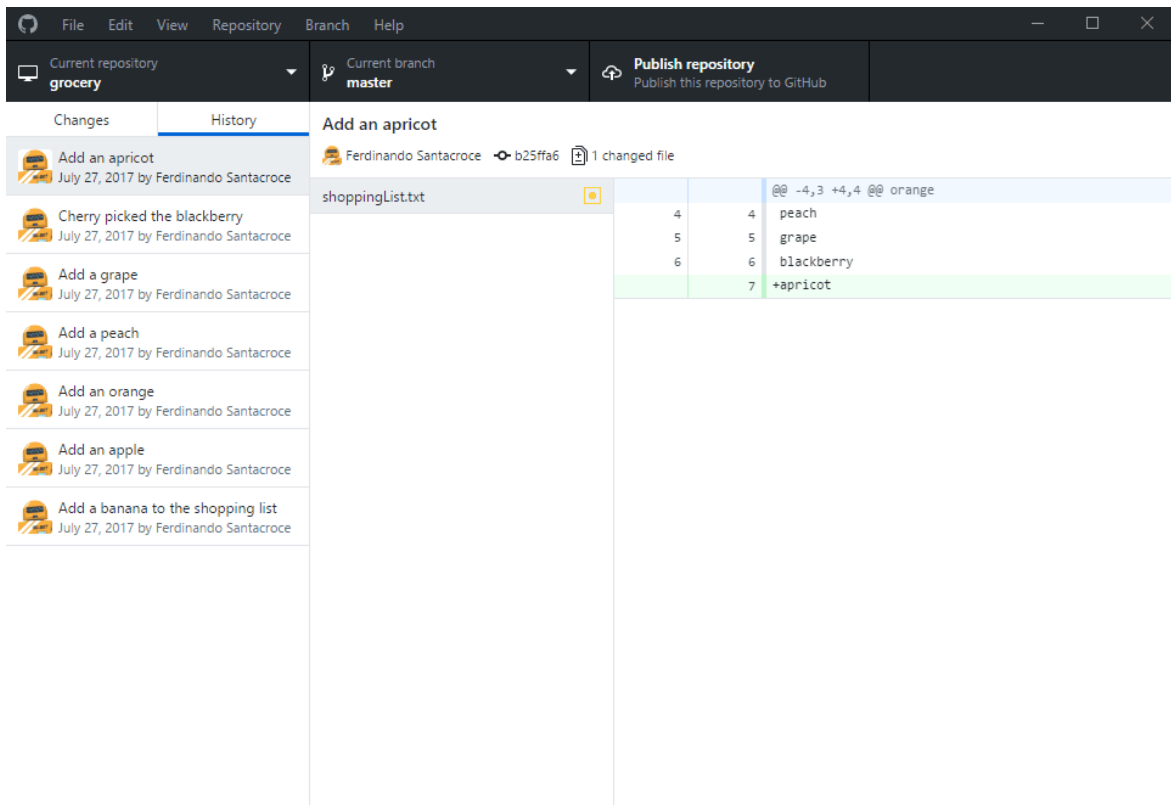


Chapter 6: Migrating to Git

Subversion	Git
Create a repository	
svnadmin create <repo-name> svnadmin import <project-folder>	git init <repo-name> git add . git commit -m "Initial commit"
Get the whole repository for the first time	
svn checkout <url>	git clone <url>
Inspecting local changes	
svn status svn diff less	git status git diff
Dealing with files (adding, removing, moving)	
svn add <file> svn rm <file> svn mv <file>	git add <file> git rm <file> git mv <file>
Committing local changes	
svn commit -m "<message>"	git commit -a -m "<message>"
Reviewing history	
svn log less svn blame <file>	git log git blame <file>
Branching and Tagging	
svn copy <source> <branch-name> svn copy <source> <tag-name>	git branch <branch-name> git tag <tag-name>
Remember: In Subversion, tags and branches represent physical copies of a source branch (the trunk, another branch, or another tag), while a tag is only a "pointer" to a particular commit in Git.	
Merging	
(assuming that the branch was created in revision 42, and you are inside a working copy of trunk) svn merge -r 42:HEAD <branch>	git merge <branch>

Chapter 7: Git Resources





```

C:\Users\san\Google Drive\Packt\PortableGit\home\grocery (berries)
λ git log --all --graph --decorate --abbrev-commit --color --pretty --oneline
* 362f8ec (HEAD -> berries) Add a strawberry
* f037469 (melons) Add a watermelon
* af9b640 Add a blackberry
  * b25ffa6 (master) Add an apricot
  * 280e7a8 Cherry picked the blackberry
  * 5dc3352 Add a grape
  * de8bc9 Add a peach
/
* 00404b4 Add an orange
* f583fdc Add an apple
* 40d865b Add a banana to the shopping list

C:\Users\san\Google Drive\Packt\PortableGit\home\grocery (berries)
λ

```

grocery - History (10 Commits)

Open Fetch Pull Push Apply Stash Save Stash Merge Rebase Git-Flow Refresh

Repositories > grocery (berries) Clone Trial Expires in 30 Days. Buy Now!

Workspace Working Copy 1 All Branches, Remotes, Tags 362f8ecb Changelog Tree

Author	Commit	Date	Message
Santacroce Ferdinando	HEAD berries	27/07/2017	362f8ecb Add a strawberry
Ferdinando Santacroce	master	27/07/2017	b25ffa60 Add an apricot
Ferdinando Santacroce		27/07/2017	280e7a85 Cherry picked the blackberry
Ferdinando Santacroce		27/07/2017	5dc3352b Add a grape
Ferdinando Santacroce		27/07/2017	de8bc9d Add a peach
Ferdinando Santacroce	melons	27/07/2017	f0374690 Add a watermelon
Ferdinando Santacroce		27/07/2017	af9b640c Add a blackberry
Ferdinando Santacroce		27/07/2017	00404b48 Add an orange
Ferdinando Santacroce		27/07/2017	f583fdcd Add an apple
Ferdinando Santacroce		27/07/2017	40d865b7 Add a banana to the shopping list

Author Santacroce Ferdinando <san@intre.it>
 Author Date 27 July 2017 at 15:35:35 GMT+2
 Committer Santacroce Ferdinando <san@intre.it>
 Committer Date 27 July 2017 at 15:35:35 GMT+2
 Refs HEAD berries
 Commit Hash 362f8ecb2cac71b9e568b7b16fbc54abf79a3bce
 Parent Hash f0374690a04853ca6e9fb318bd10b9b6ca0726bc
 Tree Hash eff180f925f87ced26a3e7d799d2e5ca876f6304

Add a strawberry

Expand All Showing 1 changed file with 1 addition and 0 deletions

modified M shoppingList.txt

1 chunk, 1 insertion, 0 deletions

```

@@ -1,5 +1,6 @@
1 | 1 | banana
2 | 2 | apple
3 | 3 | orange
4 | 4 | blackberry
5 | 5 | watermelon
+6 | | strawberry

```

SCM Manager

Navigation

Main

- Repositories
- Import Repositories

Config

- General
- Repository Types
- Plugins

Security

- Change Password
- Users
- Groups

Log out

- Log out

Repositories

+ Add
 - Remove
 ↻ Reload
 Filter:
 Search:

Name	Type	Contact	Description	Creation date	Url
issues (2 Repositories)					
79	Mercurial			2011-12-15 21:09:30	http://hades.uasw.edu:8081/scm/hg/issues/79
83	Subversion			2011-12-28 18:09:32	http://hades.uasw.edu:8081/scm/svn/issues...
scm (7 Repositories)					
scm-git	Git	s.sorra@gmail.com	SCM-Manager Git ...	2011-05-06 12:56:47	http://hades.uasw.edu:8081/scm/git/scm/sc...
scm-graph-plugin	Mercurial			2011-09-27 22:46:37	http://hades.uasw.edu:8081/scm/hg/scm/sc...
scm-gravatar-plugin	Mercurial	s.sorra@gmail.com	SCM-Manager Gra...	2011-07-06 08:24:05	http://hades.uasw.edu:8081/scm/hg/scm/sc...
scm-ldap-plugin	Mercurial			2011-09-28 08:13:34	http://hades.uasw.edu:8081/scm/hg/scm/sc...
scm-manager	Mercurial	s.sorra@gmail.com	SCM-Manager	2011-05-06 12:55:59	http://hades.uasw.edu:8081/scm/hg/scm/sc...
scm-pam-plugin	Mercurial	s.sorra@gmail.com	SCM-Manager PAM...	2011-07-06 08:21:05	http://hades.uasw.edu:8081/scm/hg/scm/sc...
scm-scala-test	Mercurial	s.sorra@gmail.com	Creating SCM-Man...	2011-07-06 08:19:56	http://hades.uasw.edu:8081/scm/hg/scm/sc...
sub (5 Repositories)					
external	Subversion			2011-12-01 20:34:43	http://hades.uasw.edu:8081/scm/svn/sub/ex...
git-mod-1	Git			2012-01-07 14:23:59	http://hades.uasw.edu:8081/scm/git/sub/git-...
main	Mercurial			2011-12-10 14:34:28	http://hades.uasw.edu:8081/scm/hg/sub/main
main-git	Git			2012-01-07 14:19:20	http://hades.uasw.edu:8081/scm/git/sub/mai...
module-1	Mercurial			2011-12-10 14:34:41	http://hades.uasw.edu:8081/scm/hg/sub/mo...

scm/scm-manager
Settings
Permissions
Sub Repositories

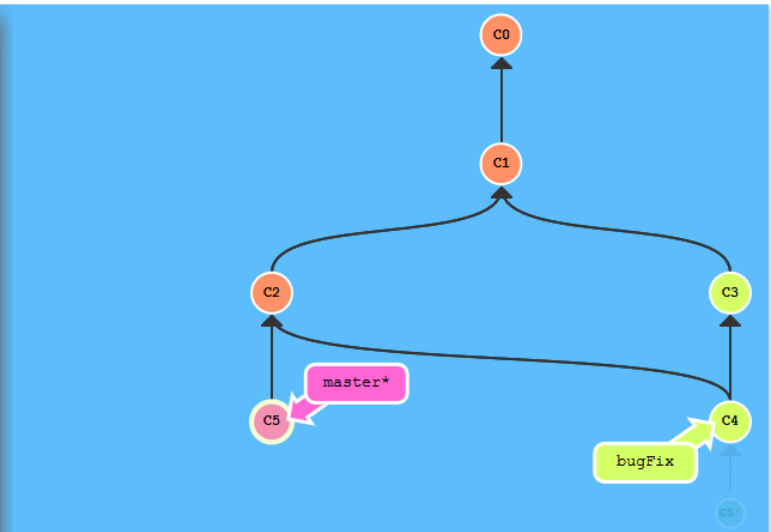
Name: scm/scm-manager
Type: Mercurial (hg)
Contact: s.sorra@gmail.com
Url: http://hades.uasw.edu:8081/scm/hg/scm/scm-manager
Checkout: hg clone http://scmadmin@hades.uasw.edu:8081/scm/hg/scm/scm-manager

[Commits](#), [Source](#)

```

Learn Git Branching
$ git commit
$ git checkout -b bugFix C1
$ git commit
$ git merge master
$ git checkout master
$ git commit
$ git rebase bugFix
$ delay 1000
$ reset
$ level advanced1 --noFinishDialog
--noStartCommand --noIntroDialog

$ delay 2000
$ show goal
$ delay 1000
$ hide goal
$ git checkout bugFix
$ git rebase master
$ git checkout side
$ git rebase bugFix
$ git checkout another
    
```



Visualizing Git Concepts with D3

This website is designed to help you understand some basic git concepts visually. This is my first attempt at using both SVG and D3. I hope it is helpful to you.

Adding/staging your files for commit will not be covered by this site. In all sandbox playgrounds on this site, just pretend that you always have files staged and ready to commit at all times. If you need a refresher on how to add or stage files for commit, please read [Git Basics](#).

Sandboxes are split by specific git commands, listed below.

Basic Commands	Undo Commits	Combine Branches	Remote Server
git commit	git reset	git merge	git fetch
git branch	git revert	git rebase	git pull
			git push
			git tag

We are going to skip instructing you on how to add your files for commit in this explanation. Let's assume you already know how to do that. If you don't, go read some other tutorials.

Pretend that you already have your files staged for commit and enter `git commit` as many times as you like in the terminal box.

```
Type git commit a few times.
$ git commit
```

Local Repository
Current Branch: master

Diagram showing a commit graph with two nodes: e137e9b... and 51a2e84... The HEAD pointer is pointing to the current commit (51a2e84...), which is labeled as master.

```
$ Enter git command
```

Specific Examples

Below I have created some specific real-world scenarios that I feel are quite common and useful.

[Restore Local Branch to State on Origin Server](#)
[Update Private Local Branch with Latest from Origin](#)
[Deleting Local Branches](#)

[Free Playground](#)
[Zen Mode](#)