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  - [Sales](#)
  - [Sitemap](#)
  - [Videos »](#)
  - [Web Design »](#)
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## Git Video Tutorial

Posted by [Derek Banas](#) on Apr 14, 2014 in [Git Video Tutorial](#) | [28 comments](#)



One of you guys asked me to make a Git video tutorial so I did.

Specifically I go over all the different types of version control. We look at the difference between modified, staged and committed. We then install and set everything up for Windows, OSX and Linux. I briefly go over using VIM and show how to set up other editors. Then I cover the commands init, add, commit, status, diff, rm, log and more. A cheat sheet follows the video below.



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### Other Git Video Tutorial Videos

Init, Add, Commit, Status, Diff, Rm, Log and Installation : <http://goo.gl/L3bR9f>

GitHub, Remote Repositories, Push, Pull, Remote, Fetch, Tagging, Aliases and Clone : <http://goo.gl/ctIF44>

Branching, HEAD, Checkout, Rebasing, Reverting, Reset, Clean, Solving Merge Conflicts and Mergetool : <http://goo.gl/zWDj7T>

Generating SSH keys, how to set up multiple GitHub accounts on one computer and the Fork & Pull workflow : <http://goo.gl/jQo7rv>

### Git Video Tutorial Cheat Sheet and Transcription

```
001  INSTALLING GIT
002
003  1. Mac : http://sourceforge.net/projects/git-osx-installer/
004
005  2. Windows : http://msysgit.github.io/
006
007  3. Linux : apt-get install git-core OR yum install git-core
008
009  ABOUT GIT
010
011  1. Git is a version control tool that saves changes to groups
    of files so you can revert back if needed.
012
013  2. There are different types of version control tools
014
015  a. Local Version Control saves changes to files in a database
```

016  
017 b. Centralized Version Control saves changes to a shared server  
018  
019 c. Distributed Version Control allows for easier sharing of  
files then LVC and also eliminates problems that could occur if  
access to the server is lost under a CVC system.  
020  
021 d. DVC clients have a complete backup of the files on their  
computer. If the server is lost the client just waits to regain  
contact and then uploads changes.  
022  
023 3. When you commit changes to files Git stores a reference of  
what the files look like at that moment. If a file isn't  
changed it isn't stored again.  
024  
025 4. Each client has a complete history of all changes stored  
locally. The client can also access all changes made to the  
files historically with a simple command. Also those files  
cannot be changed without Git knowing and changes are difficult  
to lose.  
026  
027 5. Files transition between 3 states with Git  
028  
029 a. Modified Files are files that have been recently changed  
030  
031 b. Staged Files have been marked to be saved  
032  
033 c. Committed Files are those that have been saved  
034  
035 6. Git saves all file changes to a directory as a compressed  
database.  
036  
037 a. You modify files in Working Directory  
038  
039 b. You notify that want to save changes in your Staging Area  
040  
041 c. After you Commit the file changes are saved in the Git  
directory  
042  
043 USING GIT  
044  
045 1. git config --global user.name "Derek Banas"  
046  
047 2. git config --global user.email derekbanas@verizon.net  
048  
049 3. git config --global core.editor "vim" # Set editor as vim  
050  
051 4. git config --global core.editor "edit -w" # Set editor as  
Text Wrangler Mac  
052  
053 5. git config --list # Show settings  
054  
055 6. git help OR git help [COMMAND] OR git help add

```
056
057 7. ----- Track a directory -----
058
059 a. Go to directory
060
061 b. ls -a shows all files
062
063 c. git init # Creates the .git directory
064
065 8. ----- Start tracking files -----
066
067 a. By type : git add *.java
068
069 b. By name : git add AndroidManifest.xml
070
071 9. ----- Ignore Files -----
072
073 a. Create a .gitignore file
074
075 b. https://github.com/github/gitignore
076
077 10. ----- git commit -m 'Initial project version'
078
079 a. Commits the changes and sets an abbreviated commit message
080
081 11. ----- git status -----
082
083 a. Shows the state of your files meaning if they are tracked,
    have been modified and the branch your on.
084
085 12. ----- Stage A Modified File -----
086
087 a. Change the file and save
088
089 b. git diff # Shows what you changed, but haven't staged
090
091 c. git add AndroidManifest.xml # Stage file
092
093 d. git diff --cached # Shows what has been staged, but not
    committed
094
095 13. ----- Commit The Changes -----
096
097 a. commit # Opens the editor we defined above or vi
098
099 b. In vi click [ESC] i to enter insert mode
100
101 c. Type a heading that briefly explains the changes in 50
    characters or less
102
103 d. Describes the original problem that is being addressed
104
105 e. Describes the specific change being made
```

```
106
107 f. Describes the result of the change
108
109 g. Describes any future improvements
110
111 h. Post a closes bug notation Closes-Bug: #1291621
112
113 i. Hit [ESC] and type wq to save and exit
114
115 j. git commit -a -m 'Changed comment' # Skips staging and
    commit message
116
117 14. ----- Remove a File -----
118
119 a. rm DeleteMe.txt # If you remove a file it shows as "Changed
    but not updated"
120
121 b. git status # If you remove a file it shows as "Changed but
    not updated"
122
123 c. git rm DeleteMe.txt
124
125 d. git status # Shows that the file was deleted
126
127 e. If you have committed a file to be removed you must add the
    -f option
128
129 f. git rm --cached DeleteMe.txt # Keep file, but remove from
    staging area
130
131 g. git mv DeleteMe.txt Delete.txt # Renames a file
132
133 15. ----- Log Commit History -----
134
135 a. git log # Shows all of the previous commit messages in
    reverse order
136
137 b. git log --pretty=oneline # Shows commits on one line
138
139 c. git log --pretty=format:"%h : %an : %ar : %s"
140
141 I. %h - Abbreviated Hash
142
143 II. %an - Authors Name
144
145 III. %ar - Date Changed
146
147 IV. %s - First Line of Comment
148
149 d. git log -p -2 # Shows the last 2 commit changes
150
151 e. git log --stat # Prints abbreviated stats
152
```

```

153 f. git log --since=1.weeks # Show only changes in the last week
154
155 g. git log --since="2014-04-12" # Show changes since this date
156
157 h. git log --author="Derek Banas" # Changes made by author
158
159 i. git log --before="2014-04-13" # Changes made before this
    date
160
161 16. ----- Undoing a Commit -----
162
163 a. git commit --amend # If you want to change your previous
    commit
164
165 b. Normally done if you forgot to stage a file, or to change
    the commit message
166
167 17. ----- Unstage a File -----
168
169 a. git reset HEAD AndroidManifest.xml

```

## 28 Responses to “Git Video Tutorial”



1. *sohelelite* says:

[April 14, 2014 at 10:11 am](#)

There r many tutorial on git but this is the best of all

[Reply](#)



o *Derek Banas* says:

[April 14, 2014 at 4:52 pm](#)

Thank you very much 😊 I did my best to pack as much as possible into the video.

[Reply](#)



2. *Roni* says:

[April 14, 2014 at 3:49 pm](#)

is android tutorial over?

[Reply](#)



o *Derek Banas* says:

[April 14, 2014 at 4:51 pm](#)

No I will finish up App Inventor. I just wanted to cover a request I received. After App Inventor I'll slowly get back into regular Java Android with other random videos on JUnit, random diet stuff because I'm on a diet. It should be fun 😊

[Reply](#)



■ *LaFolia* says:

[April 15, 2014 at 8:23 pm](#)

I can't wait for your regular java android tutorials! You are the best!

[Reply](#)



■ *Derek Banas* says:

[April 16, 2014 at 6:00 am](#)

Thank you 😊 I already have a bunch [here](#), but I'll bring out another in a few weeks.

[Reply](#)



3. *Sahil Dave* says:

[April 15, 2014 at 1:18 pm](#)

Hey Derek, can you please make a tutorial on Back-end services for android apps, like Parse.com or Google App Engine?

[Reply](#)



○ *Derek Banas* says:

[April 15, 2014 at 4:36 pm](#)

Many more Android tutorials are coming. I'll definitely cover Google App Engine

[Reply](#)



4. *Sako* says:

[April 15, 2014 at 2:32 pm](#)

Hi Derek,

This is wonderful. Can we get one on "GIT Extensions" too?

Thanks a lot

[Reply](#)



- [Derek Banas](#) says:  
[April 15, 2014 at 4:35 pm](#)

You're very welcome 😊 I'll do my best to cover most everything.

[Reply](#)



- 5. [Mr. Jimmy](#) says:  
[April 17, 2014 at 1:41 am](#)

Hi Derek, can you make a tutorial about SVN?

[Reply](#)



- [Derek Banas](#) says:  
[April 17, 2014 at 5:49 am](#)

I'll see, but i'm going to stick with Git for now because it is what i use.

[Reply](#)



- [Mr. Jimmy](#) says:  
[April 17, 2014 at 6:59 am](#)

Thank you for the answer, have a nice day 😊

[Reply](#)



- [Derek Banas](#) says:  
[April 17, 2014 at 7:27 am](#)

You're very welcome 😊

[Reply](#)



- 6. [Glen](#) says:  
[April 20, 2014 at 1:03 am](#)



Hey Derek, I love the pace of your videos, it always seems to be just right and doesn't waste my time. We can always stop and replay parts when we feel a need to. I think you really have a gift for this. Thanks for spending your time to share it!

[Reply](#)



o [Derek Banas](#) says:

[April 20, 2014 at 8:40 am](#)

Thank you very much 😊 I always try to improve and present the information in a new way. I'm very happy that you enjoy the videos.

[Reply](#)



7. [Richard Lucas](#) says:

[April 22, 2014 at 6:12 pm](#)

Derek,

Super happy you are doing a tutorial on this, I love your style.

I am having an issue where when I do the "git diff" command, it essentially locks up the terminal so that I am forced to restart the terminal so that I can enter more commands. Here is a screenshot of what is going on:

<http://i.imgur.com/S6PuMnm.png>

Thanks for all your help.

[Reply](#)



o [Derek Banas](#) says:

[April 23, 2014 at 1:37 pm](#)

Hi Richard,

Thank you 😊 If that happens click q to exit. Tell me if that doesn't work.

[Reply](#)



■ [Richard Lucas](#) says:

[April 23, 2014 at 5:35 pm](#)

Damn your good. That worked perfectly. Thank you so much.

[Reply](#)



- [Derek Banas](#) says:  
[April 24, 2014 at 5:17 pm](#)

I'm glad you liked it. I'll get the next 2 parts out as soon as possible.

[Reply](#)



8. [Vcoder](#) says:  
[April 29, 2014 at 11:42 am](#)

Great git tutorials, thank you =)

[Reply](#)



- [Derek Banas](#) says:  
[April 29, 2014 at 4:02 pm](#)

Thank you very much 😊

[Reply](#)



9. [Manuel Silverio](#) says:  
[May 23, 2014 at 4:06 pm](#)

This is definitely the best Git tutorial on the web.. Thanks!

[Reply](#)



- [Derek Banas](#) says:  
[May 23, 2014 at 5:36 pm](#)

Thank you 😊 That is always the goal. I'm glad I achieved that this time.

[Reply](#)



10. [Yehuda Ginsburg](#) says:  
[July 3, 2014 at 9:49 am](#)

Hi Derek

First Thank you for your site its the best.

I've Learning this video few times and i have a question:  
what is the different between this command of unstaging to other command:  
A.git rm --cached AndroidManifest.xml #  
B.git reset HEAD AndroidManifest.xml #  
from what i see both commands do unstaging but not delete.

Thanks  
Yehuda

[Reply](#)



o [Derek Banas](#) says:  
[July 6, 2014 at 11:58 am](#)

Hi Yehuda,

There are 3 places where you can have files being the tree, the index and the working copy.  
git reset HEAD resets the index to the state it was in before you started making changes to the index. git rm removes a file from the working directory and the index when you commit.  
i hope that helps 😊

[Reply](#)



11. [Nasser](#) says:  
[September 6, 2014 at 12:10 am](#)

Thank you derek for helping us and I hope that you keep the good work ..

[Reply](#)



o [Derek Banas](#) says:  
[September 9, 2014 at 5:55 pm](#)

You're very welcome 😊 Many more videos are coming

[Reply](#)

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