

نگاهی به گیت (با رویکرد کاربردی)

علی وکیلزاده

معرفی گیت

- گیت یک نرم‌افزار است!
- یک اصطلاح بریتانیایی
- C/Perl/Bash
- GPLv2
- برای توسعه کرنل لینوکس ایجاد شد.
- یک برنامه کنترل ورژن است.

روش دستی

- main.c
- main-old.c
- main-old2.c

قبل از شروع کار

- `git config --global user.name 'name'`
- `git config --global user.email mail@host`

شروع کار با گیت

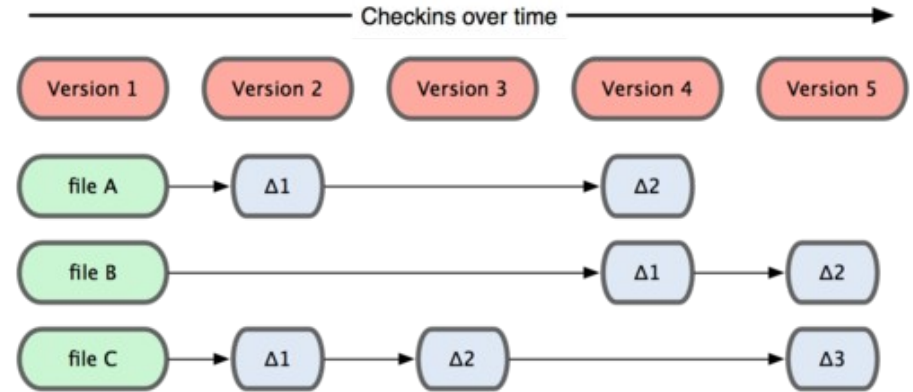
```
cd MyProgram
```

```
git init
```

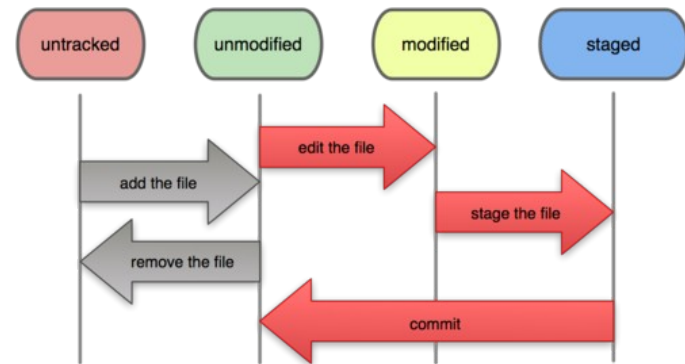
- MyProgram
 - Makefile
 - src
 - main.c
 - header.h
 - header.v
 - **.git**

عملیات پایه

- Edit file(s)
- `git add filename(s)`
- `git commit -m 'changes'`
- `git status`



File Status Lifecycle



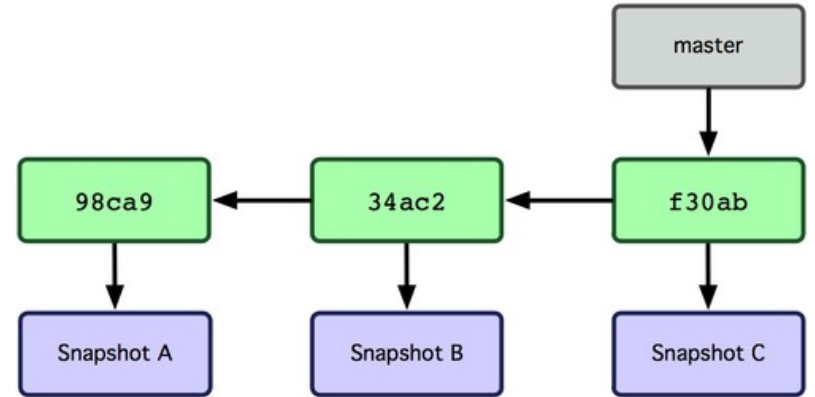
بازگردانی تغییرات

- git log
 - git diff
 - git show
 - git reset RevisionNum
-
- git reset head

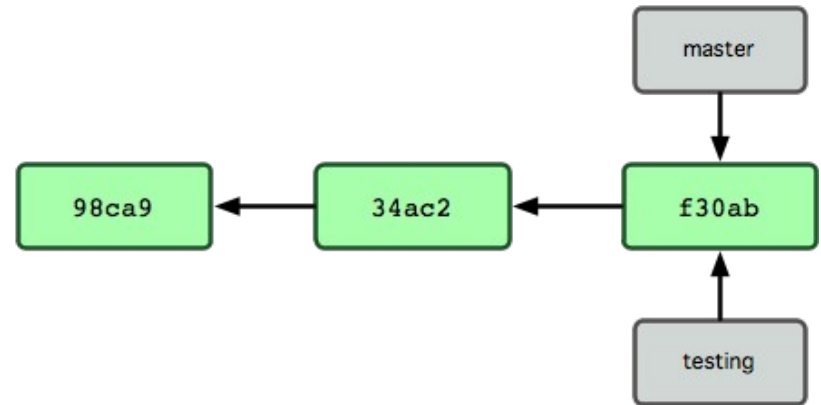
کار با مخازن تحت وب

- `git clone git://git.gnome.org/epiphany`
- `git remote git://github.com/name/MyProgram.git`
- `git push`
- `git pull`

Branch

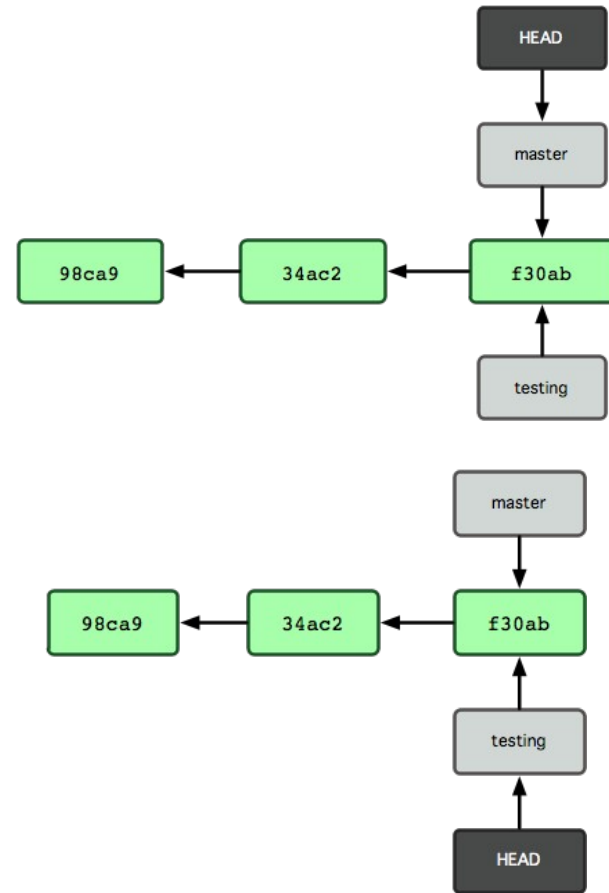


- git branch testing

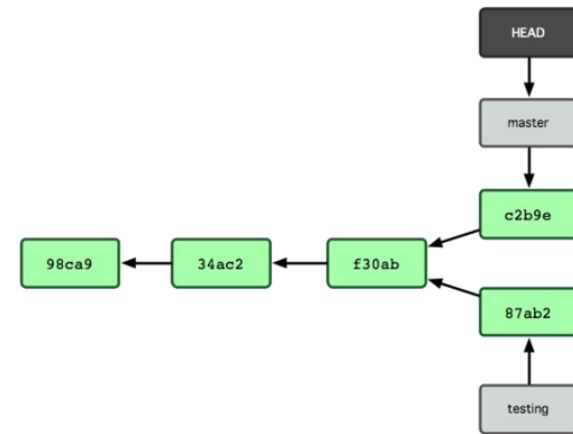
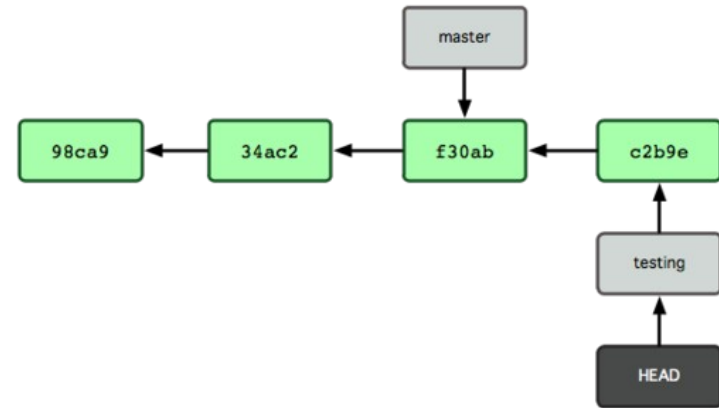


CheckOut

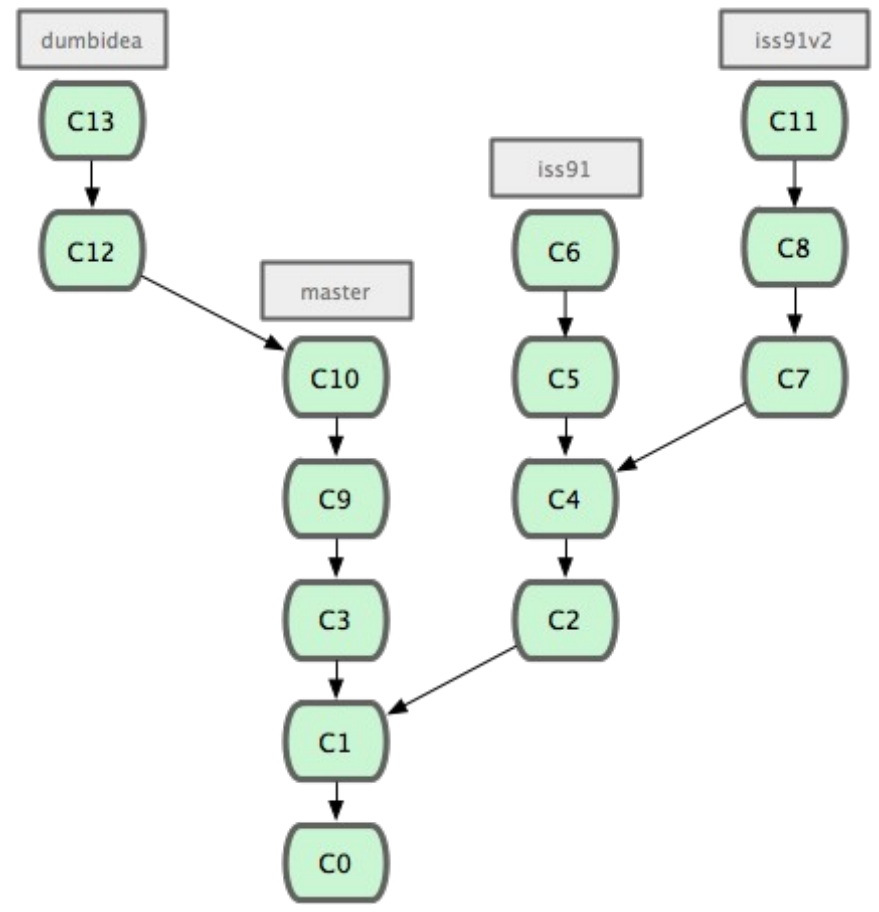
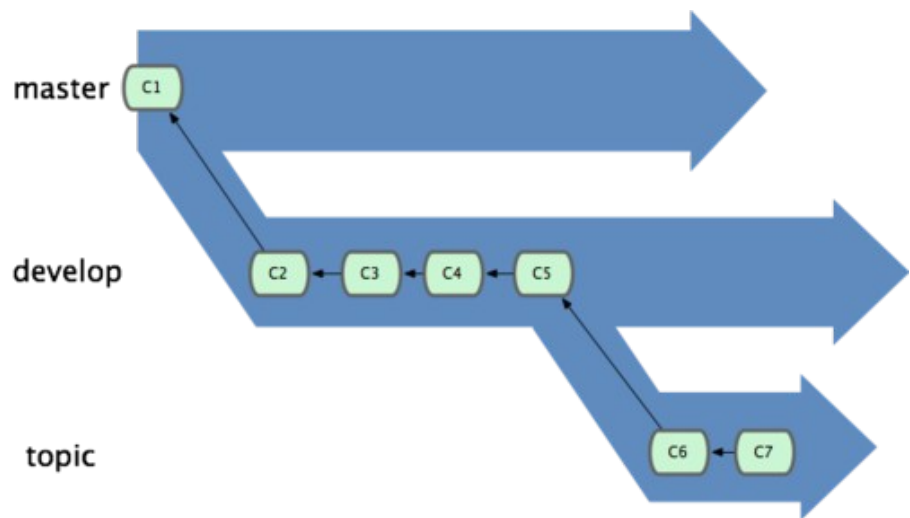
- git checkout testing



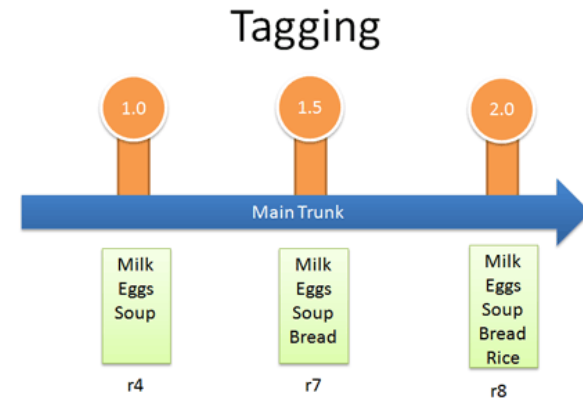
Merge



- git checkout master
- git merge testing
- git branch -d testing



- Git tag v1.0.1
- Git push tags



Comparison of hosting facilities

Name	Code Review	Bug tracking	Web hosting	Wiki	Translation system	Mailing List	Forum	Private branch	Git
GitHub	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
Bitbucket	Yes	Yes	Yes	Yes	No	No	No	Yes	No
CodePlex	No	Yes	No	Yes	No	Yes	Yes	No	No
Gitorious	Yes	No	No	Yes	No	No	No	No	Yes
Google Code	Yes	Yes	Yes	Yes	No	Yes	No	No	No
Launchpad	Yes	Yes	No	No	Yes	Yes	No	Yes	No
SourceForge	No	Yes	Yes	Yes	No	Yes	Yes	No	Yes



git

the fast version control system



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[Wiki](#)



[Pro Git Book](#) : The Creative Commons licensed freely available online book

Tutorials

Books

Short and Sweet

The [Git Reference site](#) is an online git reference built as a tutorial.

The [official Git tutorial](#) is a good place to get started.

[Everyday Git](#) in 20 commands is good for a useful minimum set of commands.

The [SVN Crash Course](#) might be helpful if you're coming from the SVN world.

Longer, More In Depth

[Git for Designers](#) – No knowledge of version control? No problem.

[Git for Computer Scientists](#) – A quick introduction to git internals for people who are not scared by words like Directed Acyclic Graph.

The [Git User's Manual](#) is a comprehensive resource, covering a lot of Git functionality.

[Git Magic](#) – An alternative online book with the source [online](#).

[Help.GitHub](#) – Guides on a variety of Git and GitHub related topics

Reference

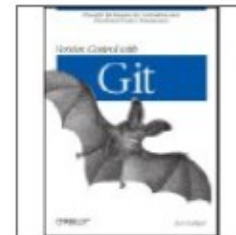
The official and comprehensive [reference manual](#) comes as part of the Git package itself



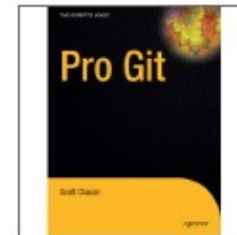
[Git Internals PDF](#)
by Scott Chacon



[Pragmatic Version Control Using Git](#)
by Travis Swicegood



[Version Control with Git](#)
by Jon Loeliger



[Pro Git](#)
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