

Git is my hero

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Not this guy:



More like this:

## BEFORE:

```
cp specialfile.c specialfile.c.bak
vi specialfile.c
cp specialfile.c specialfile.c.200809221522
ls -alr
```

## AFTER:

```
git init
git add specialfile.c
git commit -m "making changes"
vi specialfile.c
git commit -a -m "made change, saved world"
```

Why REVISION CONTROL?

A  
GEORGE PAL  
PRODUCTION

# H.G. WELLS' THE TIME MACHINE



DVD

Figure out what you did (later)  
Document what you did (right then)  
Use tools designed for this

# A short history of Revision Control Systems:

Ancient:

SCCS (1972)

Old School:

RCS (ci / co)

Centralized:

CVS / Subversion

Decentralized:

Git / Mercurial / Bazaar / SVK

# DOWNLOAD:

<http://git.or.cz/>

**Download GIT source package [2008-09-13]**

The latest stable Git release is **v1.6.0.2**:

[tar.bz2 \(sign\)](#) [tar.gz \(sign\)](#)

[Release notes](#) [More versions](#) [Browse history/code](#)

Quickly:  
git clone  
git log  
git init  
git status  
git diff  
git commit  
git revert

**DEMONSTRATION**

Important notes:

changing file names  
(git mv)

# Important notes:

directories

(if they're empty, git doesn't care  
about them)

there's a way around this:

`.gitignore`

Empty directory recipe for  
.gitignore:

\*

!.gitignore

Note:

Rules are recursive

Best Practice:

designate a place for  
“authoritative” storage

## Important notes:

pushed changes aren't  
automatically shown  
in checked-out files  
(in the “authoritative” repo)

**Best practice:**  
don't check out  
in the central repo

Do things once:  
git remote add NAME \$URL

## Git URLs:

/home/you/git

git://user@host/path/to/git

ssh://user@host/path/to/git

http://somehost.com/git

## REMOTES URL

create with a refspec,  
located in one of:

`.git/config`

`.git/remotes`

`.git/branches`

Or on the command-line.

```
git add remote community9 \  
ssh://selena@blah/home/selena/pg_top/
```

**makes this:**

```
[remote "community9"]  
url = ssh://selena@blah/home/selena/pg_top/  
fetch = +refs/heads/*:refs/remotes/community9/*
```

More fun:

git stash

git branch

git reset

git push

git pull

get fetch

git merge

git rebase - DANGER!