



# Revision Control

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<http://changedmy.name/>

A brief overview of centralized version control

Distributed VCS

Git - What is it?

What is it good for?

A few reservations

You did *what* with Git?

Questions

# Why Use Version Control?

# Single User

Recover deleted files

Undo all changes

Revert code to working state

Find source of a bug

# Multiple Users

All of those plus...

No overwriting others' changes

Easily view what's been changed

Easily pull in updates

# How Does Version Control Work?

Repository: the database of files

Server: the computer hosting the repository

Client: a computer accessing the repository

Diff: the changes between two text files

Commit: send a diff to the repository

# Basic Process

how01



# Basic Process

how02

# Basic Process

how03

# Basic Process

how04

# Basic Process

how05

CVS

~~CVS~~

# Subversion (svn)

<http://svnbook.red-bean.com/>

# Distributed Version Control System

(DVCS)



Mercurial (hg)

Bazaar (bzd)

Darcs

Monotone

~~Mercurial (hg)~~

~~Bazaar (bzzr)~~

~~Darcs~~

~~Monotone~~

~~Mercurial (hg)~~

~~Bazaar (bzzr)~~

~~Darcs~~

~~Monotone~~

gitgithub

git00

git01

git02

git03

git04



git05

git07

```
$ └─[pearson@Bragi] - [~/Documents/talk-revision_co
└─[$]> git add -p showoff.json
diff --git a/showoff.json b/showoff.json
index 6a561f0..f58d37d 100644
--- a/showoff.json
+++ b/showoff.json
@@ -1,5 +1,6 @@
 [
-     {"section": "intro"},
-     {"section": "why"},
-     {"section": "how"}
+     //{"section": "intro"},
+     //{"section": "why"},
+     //{"section": "how"},
+     {"section": "git"}
 ]
Stage this hunk [y,n,q,a,d,/,e,?]?
```

[http://tomayko.com/writings/  
the-thing-about-git](http://tomayko.com/writings/the-thing-about-git)

```
$>ti
```

Please specify at least one action to execute.

```
list state show new checkout comment tag
```

```
$ti new -t 'my new ticket'
```

```
$#>ti list
```

```
1.  TicId Title State Date Assgn Tags
```

```
-----
```

```
2.  1 9ebd07 add attachment to ticket open 03/22  
    2 6ca8be download attached file open 03/22 s  
    3 bec8e9 add a milestone resol 03/22 schacon  
    4 9b83ea general tag management open 03/22 s  
    5 94f24e show expanded comments open 03/22 s  
    6 f3dd9b remove a ticket open 03/22 schacon  
    7 e1629e improved cli support open 03/22 sch
```

[http://wiki.github.com/  
schacon/ticgit/](http://wiki.github.com/schacon/ticgit/)