

Introduction to Git



A session by OSD Labs and TIP Open Source

Agenda

1. Introduction
2. How to use Git?
3. What is GitHub anyway?

"FINAL".doc



FINAL.doc!



FINAL_rev.2.doc



FINAL_rev.6.COMMENTS.doc



FINAL_rev.8.comments5.
CORRECTIONS.doc



FINAL_rev.18.comments7.
corrections9.MORE.30.doc



FINAL_rev.22.comments49.
corrections.10.#@\$%WHYDID
ICOMETOGRADSCHOOL????.doc

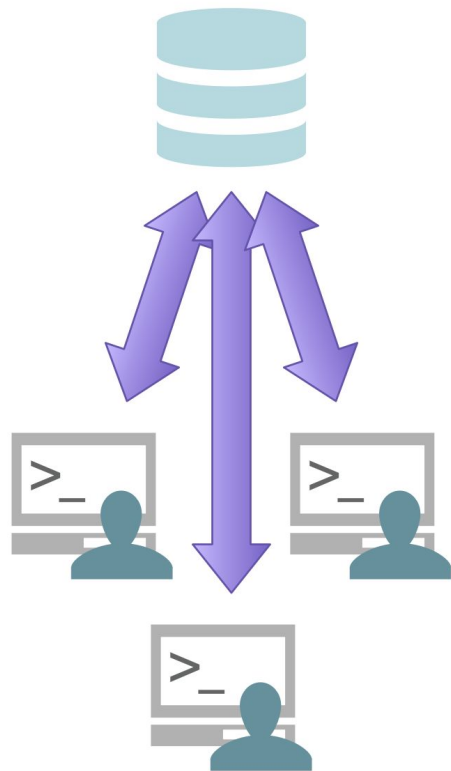
JORGE CHAN © 2012

**You have to collaborate
with three of your friends
for a project. How would
you do that?**

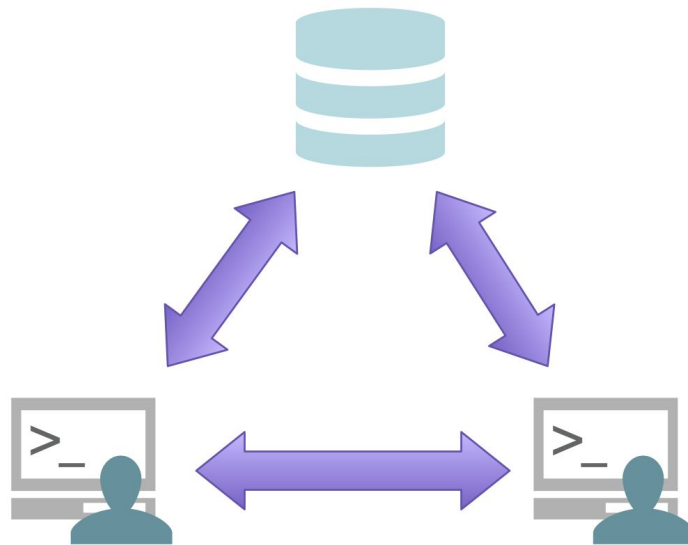
- 1. Git helps you to maintain history of files.**

2. Git helps you to collaborate consistently

SVN - Centralized
Collaboration



git - repo to repo
Collaboration



3. Git is a decentralized version control system

Short History

- Its development started in 2005 by the Linux Foundation

🏠 > [News](#) > After controversy, Torvalds begins work on "git"

















After controversy, Torvalds begins work on "git"

Following controversy, Linux creator Linus Torvalds has begun writing new software, called "git," to manage the Linux kernel development process.

Robert McMillan (IDG News Service) on 20 April, 2005 09:56

100644 | 57 lines (44 sloc) | 2.57 KB

[Raw](#) [Normal view](#) [History](#)

 [PATCH] Docs - asciidoc changes 8ac866a lbt authored on May 22, 2005	1	////////////////////////////////////
 Update README to reflect the hier... 6ad6d3d Linus Torvalds authored on Apr 17, 2005	2	
 Documentation: avoid poor-man's ... 48a8c26 tacker66 authored on Jan 21, 2013	3	Git - the stupid content tracker
 Initial revision of "git", the informa... e83c516 Linus Torvalds authored on Apr 7, 2005 	4	
 [PATCH] Docs - asciidoc changes 8ac866a lbt authored on May 22, 2005	5	////////////////////////////////////
 sanitize content of README file 556b660 Nicolas Pitre authored on Jan 17, 2007	6	
 Initial revision of "git", the informa... e83c516 Linus Torvalds authored on Apr 7, 2005 	7	"git" can mean anything, depending on your mood.
	8	
	9	- random three-letter combination that is pronounceable, and not
	10	actually used by any common UNIX command. The fact that it is a
 [PATCH] Misc fixes for git-pasky 90c4851 proski authored on Apr 14, 2005	11	mispronunciation of "get" may or may not be relevant.
 Initial revision of "git", the informa... e83c516 Linus Torvalds authored on Apr 7, 2005 	12	- stupid. contemptible and despicable. simple. Take your pick from the
	13	dictionary of slang.
	14	- "global information tracker": you're in a good mood, and it actually
 sanitize content of README file 556b660 Nicolas Pitre authored on Jan 17, 2007	15	works for you. Angels sing, and a light suddenly fills the room.
 Initial revision of "git", the informa... e83c516 Linus Torvalds authored on Apr 7, 2005 	16	- "goddamn idiotic truckload of sh*t": when it breaks
	17	
 sanitize content of README file 556b660 Nicolas Pitre authored on Jan 17, 2007	18	Git is a fast, scalable, distributed revision control system with an
	19	unusually rich command set that provides both high-level operations
	20	and full access to internals.
	21	
	22	Git is an Open Source project covered by the GNU General Public



- *git* is British English slang for "unpleasant person".

Some basic BASH Commands

Bash is UNIX Shell command language.

Today we use it to perform simple operations such,

- Creating a directory
- Moving between directories
- Creating and Editing Files, etc.

pwd

Present Working Directory

Prints current working directory with full path name.

ls

Listing the contents of the folder

Lists the contents of folder from
where it runs.

mkdir

MaKe DIRectory

Creates new directory. If the directory already exists, returns error message.

cd

Change Directory

Changes the directory from where you are working.

nano

A text editor

nano is a small and friendly text editor.

cat

Concatenate

Can create a file with content or display contents of files.

We will use it to display contents of a file.

Some basic Git Commands

> `git config --global user.name "Sam Smith"`

> `git config --global user.email sam@example.com`

git init

Initializing the repository

What is a **repository**?

Create a new local repository

git status

List the files you've changed and those you still need to add or commit:

git add

Add one or more files to staging
(index)

```
git add <filename>
```

```
git add *
```

git commit

Commit changes to head (but not yet to the remote repository):

```
git commit -m "Commit message"
```

git log

Gives list of commits. Latest ones first.
