

Android Development with Eclipse

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May 30, 2011

Introduction

- ▶ Introduction to Git
- ▶ Setup Eclipse and the Android SDK
- ▶ Project Suggestions

Introduction to Git

- ▶ Distributed version control system
- ▶ Keeps track of changes to files
- ▶ 'Two' repositories local and remote
 - ▶ can commit to the local one several times before pushing to the remote

Push only when you're ready to inflict the changes on someone else!

Introduction to Git

Version Control Systems

- ▶ Keep old versions of files in time-stamped (or numbered) directories
- ▶ Programmers use a database to store changes

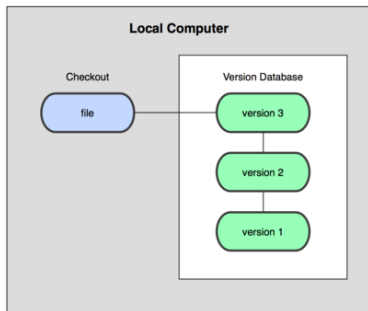


Figure: [source:http://progit.org/book/ch1-1.html](http://progit.org/book/ch1-1.html)

How do developers collaborate?

Introduction to Git

Version Control Systems

- Store the database on a server and allow clients to 'checkout'

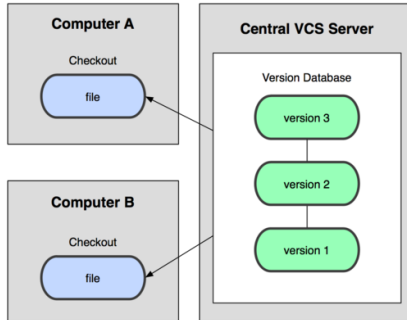


Figure: source:<http://progit.org/book/ch1-1.html>

What if the server dies?

Introduction to Git

Version Control Systems

- Clone the entire repository

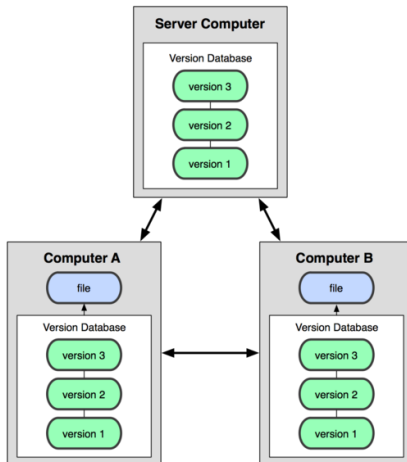


Figure: source:<http://progit.org/book/ch1-1.html>

Introduction to Git

Version Control Systems

- ▶ Git takes snapshots of the repo

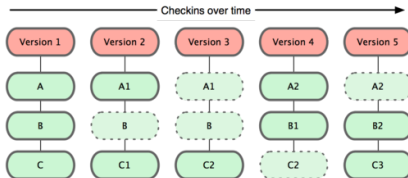


Figure: [source:http://progit.org/book/ch1-3.html](http://progit.org/book/ch1-3.html)

Introduction to Git

Version Control Systems

► Other version control systems

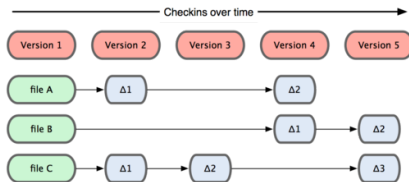


Figure: source:<http://progit.org/book/ch1-3.html>

Introduction to Git

Version Control Systems

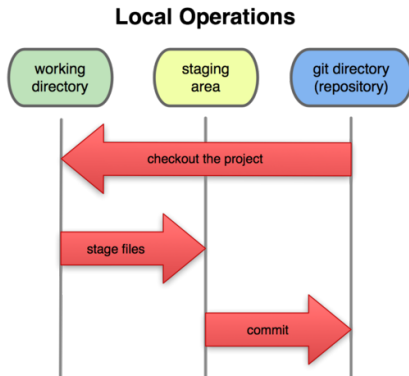


Figure: source:<http://progit.org/book/ch1-3.html>

Introduction to Git

Installation

Linux:

- ▶ `yum install git-core`
- ▶ `apt-get install git-core`

Mac OS X 10.4 (requires port):

- ▶ `sudo port install git-core`

Mac OS X 10.5

- ▶ install from the installer

Windows

- ▶ install msysgit

I've got copies of these on the pendrive. Source:

<http://progit.org/book/ch1-4.html>

Introduction to Git

Usage

```
git init  
git add <files>
```

```
git clone <url>  
git status  
git commit
```

this will use the default editor — change it with

```
git config --global core.editor
```

```
git push
```

Introduction to Git

Usage

I've setup a git repo on github
(<https://github.com/android-interest-group>) for this interest group.

```
git clone https://<username>@github.com/ \
    android-interest-group/aig.git
```

This will create a folder 'aig' in the current directory. Go to `meetings/20110530/eclipse`, to setup your environment.

Introduction to Git

Resources

- ▶ <http://git-scm.com/>
- ▶ <http://progit.org/>

Eclipse Setup

See the document in the repository. ;)

Project Suggestions

To get you started!

- ▶ tic-tac-toe
- ▶ sudoku
- ▶ hangman
- ▶ snap
- ▶ ...