

# Android Development with Eclipse

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# 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

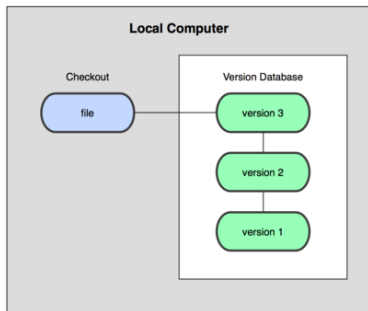


Figure: [source:http://progit.org/book/ch1-1.html](http://progit.org/book/ch1-1.html)

How do developers collaborate?

# Introduction to Git

## Version Control Systems

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

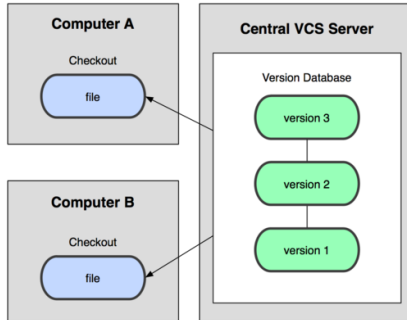


Figure: source:<http://progit.org/book/ch1-1.html>

What if the server dies?

# Introduction to Git

## Version Control Systems

- Clone the entire repository

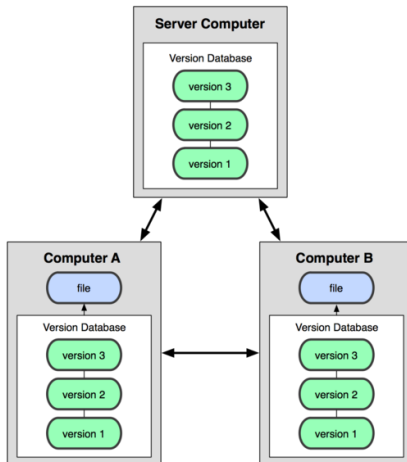


Figure: source:<http://progit.org/book/ch1-1.html>

# Introduction to Git

## Version Control Systems

- Git takes snapshots of the repo

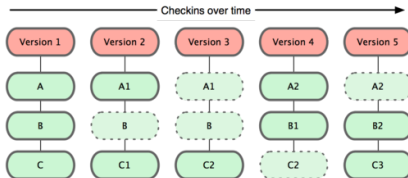


Figure: source:<http://progit.org/book/ch1-3.html>

# Introduction to Git

## Version Control Systems

### ► Other version control systems

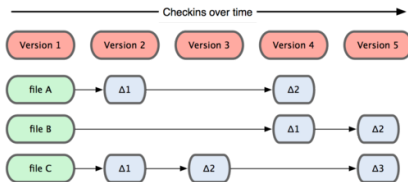


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# Introduction to Git

## Version Control Systems

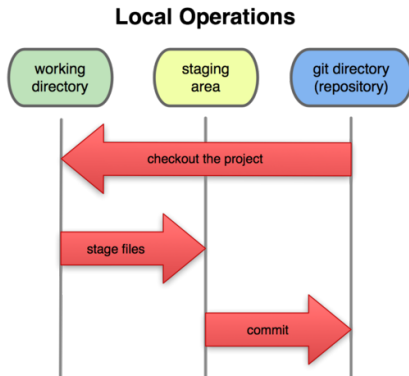


Figure: source:<http://progit.org/book/ch1-3.html>

# 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
- ▶ ...