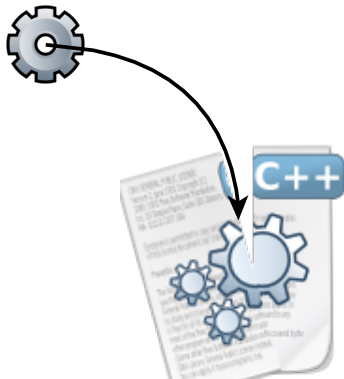


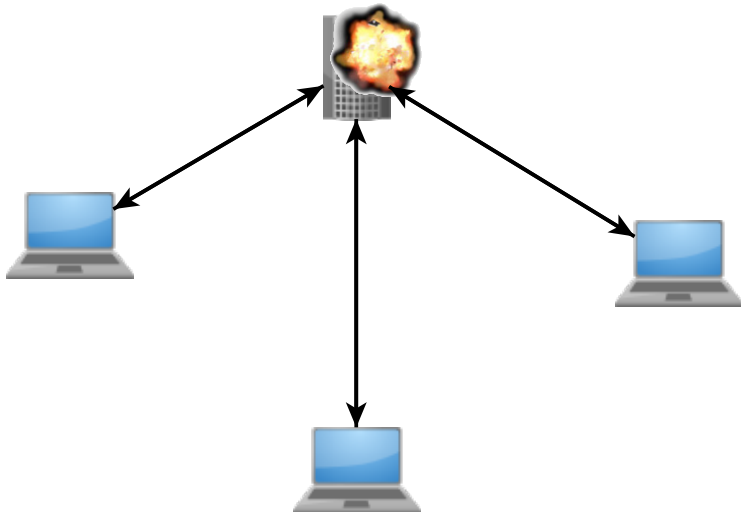
Christian Stritzke



Why git?

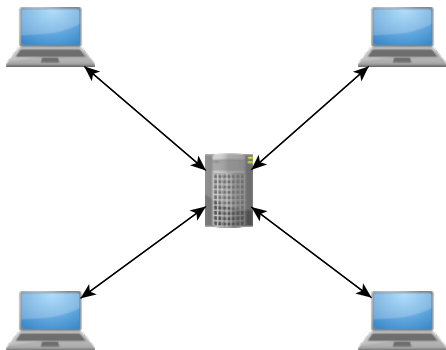


Why git?

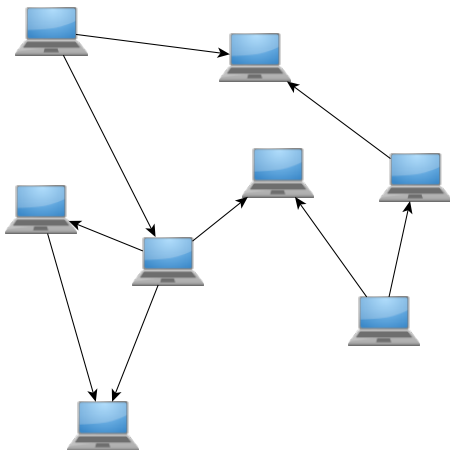


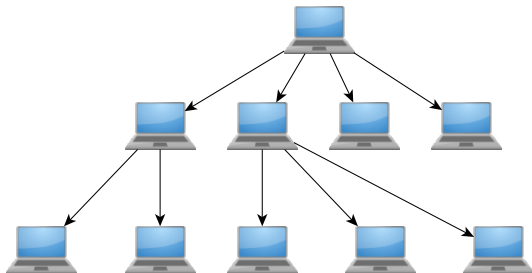
Why git?





Architectures with git repositories

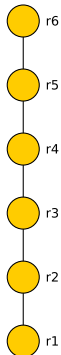




SVN history vs. git history



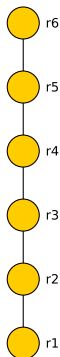
SVN log



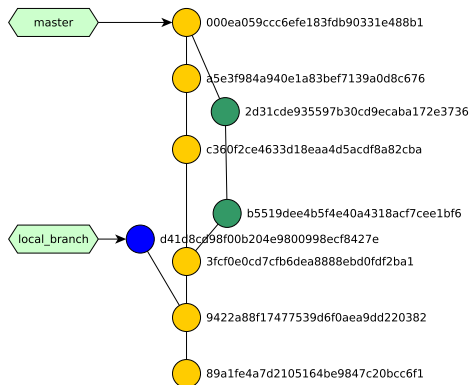
SVN history vs. git history



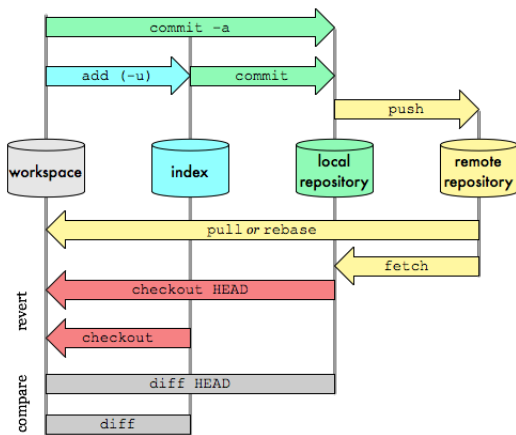
SVN log



Git log



Committing and updating in with git



Initialize empty git repository:

```
git init
```

Clone a git repository:

```
git clone https://github.com/piotr152/git-  
tutorial.git
```

Set up name and E-Mail:

```
git config --global user.name "Your_ Name_ Comes  
_ Here"  
git config --global user.email you@yourdomain.  
example.com
```

Add files to index:

```
git add <list of files>
```

Check your index:

```
git status
```

Perform the commit:

```
git commit -m "commit_message" [--amend]
```

Check the history:

```
gitk [--all]
```

Create a branch:

```
git branch <branch_name>
```

Checkout a branch:

```
git checkout <branch_name>
```

Merge a branch:

```
git merge <branch_name>
```

Update your repository:

```
git fetch origin <branch_name>
```

Update your working copy:

```
git merge origin/<branch_name>
```

Do both with one command:

```
git pull
```

I screwed up!

What now?



Revert a single file:

```
git checkout <filename>
```

Revert your complete workspace:

```
git reset --hard HEAD
```

Revert to a previous commit:

```
git reset --hard HEAD~<commits_from_here>
```

Get rid of untracked files:

```
git clean -df
```

Pull a git repo from an SVN repi:

```
git svn clone
```

Update your local copy:

```
git svn rebase
```

Commit your local commits to the SVN server:

```
git svn dcommit
```


Further Reading



Linus Torvalds on git: <http://youtu.be/4XpnKHJAok8>

Documentation, Tutorials, (incomplete) List of GUIs: git-scm.com

Tortoise git: <http://code.google.com/p/tortoisegit>

SmartGit: <http://www.syntevo.com/smartgit>

Interactive tutorial: <http://try.github.com>