## Git 101

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GuateJUG

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### Víctor Orozco

- Developer (JVM/Open Source Advocate)
- ► Ex-JUG Leader
- Consultor independiente (Nabenik)
- Otuxtor
- ► The J\*

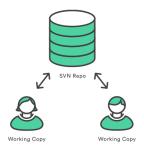


# Git (historia)

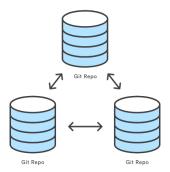
- DVCS
- ► Linus Torvalds (2005)
- Bitkeeper workflow
- "The stupid content tracker

## **SVN**

#### Central-Repo-to-Working-Copy Collaboration



Repo-To-Repo Collaboration



# Git (caracteristicas)

- Soporte robusto a metodologias no lineales
- ► Compatibilidad con protocolos estandard (HTTPS, SSH)
- Eficiencia con grandes volumenes de datos
- Estandard criptografico de nombrado
- Modular, toolkit, GPLv2

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# Git

Setup

Creamos un repositorio

git init

Copiamos un repositorio local

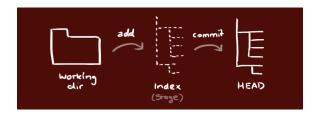
git checkout /path/to/repository

Copiamos un repositorio remoto

git checkout username@host:/path/to/repository

#### Consiste en tres arboles

- Working directory
- Staging
- ► HEAD



Ejemplo add & commit

```
git add <filename>
git commit -m "Creando mi primer archivo git"
```

## Git config

```
git config --global user.name <name>
git config --global user.email <email>
```

#### Enviar a servidor remoto

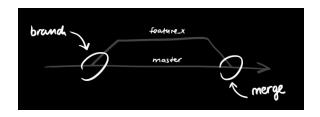
- ▶ git push <remote> <branch>
- ▶ git remote add <remote> <url>

git remote add origin <server<
git push origin master</pre>

## Git branching

- Isolar caracteristicas entre si
- master es la rama predefinida

git checkout -b <branch>
git push origin <branch>



## Git merge

- Integrar caracteristicas desde una rama
- ▶ Rama actual = rama donde se integrara el cambio

```
git checkout master
git merge <branch>
git branch -d <branch>
```

## Git update

```
git pull //obtiene cambios remotos
git merge <brack>
```

## Git log

```
git log
git log --pretty=oneline
git log --graph --oneline --decorate --all
git log --name-status //archivos cambiados
```

# Git tagging

git tag 1.0.0~1b2e1d63ff

## Git replace

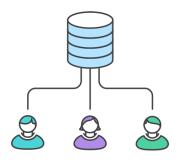
git checkout -- <filename>

Obtiene el ultimo HEAD, cambios en index y new file son conservados

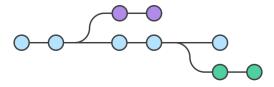
### Workflows

- Centralized
- ► Feature branch
- Gitflow
- Forking

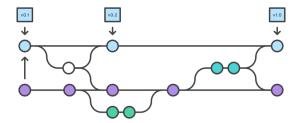
## Centralized



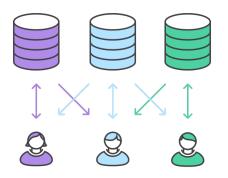
### Feature branch



# **Gitflow**



# **Forking**



### Recursos

- Atlassian Git Tutorials
- ► Git School

### Gracias

- me@vorozco.com
- http://vorozco.com
- http://github.com/tuxtor/slides



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