



**Workshop, Git**  
**v1.0, Alejandro M. Bernardis**



- + Introduction
- + Source Code Management

AGENDA

# INTRODUCTION



A close-up photograph of a person's hands holding a microphone. The hands are positioned as if the person is singing or speaking into the mic. The background is dark, with dramatic lighting effects of red and blue light creating a moody atmosphere. The text "SOURCE CODE MANAGEMENT" is overlaid at the bottom of the image.

# SOURCE CODE MANAGEMENT

Git 15.2M

git-scm.com

 **git** --distributed-even-if-your-workflow-isnt

Search entire site...

Git is a **free and open source** distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

Git is **easy to learn** and has a **tiny footprint with lightning fast performance**. It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with features like **cheap local branching**, convenient **staging areas**, and **multiple workflows**.

 Learn Git in your browser for free with [Try Git](#).



 **About**  
The advantages of Git compared to other source control systems.

 **Downloads**  
GUI clients and binary releases for all major platforms.

 **Documentation**  
Command reference pages, Pro Git book content, videos and other material.

 **Community**  
Get involved! Mailing list, chat, development and more.

 **Pro Git** by Scott Chacon is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

 [Mac GUIs](#)     [Tarballs](#)

<http://git-scm.com/>

Code School - Try Git

try.github.io/levels/1/challenges/1

1.1 · Got 15 minutes and want to learn Git?

Git allows groups of people to work on the same documents (often code) at the same time, and without stepping on each other's toes. It's a distributed version control system.

Our terminal prompt below is currently in an **octobox** directory. To initialize a Git repository here, type the following command:

**git init**



Press enter to submit commands

\$

My Octobox Repository

Advice



<http://try.github.io/levels/1/challenges/1>

Git - Instalando Git

git-scm.com/book/es/Empezando-Instalando-Git

Search entire site...

# git --distributed-is-the-new-centralized

About Documentation Chapters ▾

Reference Book Blog Videos External Links

Blog Downloads Community

Download this book in [PDF](#), [mobi](#), or [ePub](#) form for free.

This book is translated into [German](#), [Chinese](#), [French](#), [Japanese](#), [Dutch](#), [Russian](#), [Korean](#), [Brazilian Portuguese](#) and [Czech](#).

Partial translations available in [Arabic](#), [Spanish](#), [Indonesian](#), [Italian](#), [Macedonian](#), [Polish](#), [Turkish](#), [Taiwanese Mandarin](#), [Spanish \(Nicaragua\)](#), [Catalan](#), [Thai](#) and [Finnish](#).

## 1.4 Empezando - Instalando Git

### Instalando Git

Vamos a empezar a usar un poco de Git. Lo primero es lo primero: tienes que instalarlo. Puedes obtenerlo de varias maneras; las dos principales son instalarlo desde código fuente, o instalar un paquete existente para tu plataforma.

#### Instalando desde código fuente

Si puedes, en general es útil instalar Git desde código fuente, porque obtendrás la versión más reciente. Cada versión de Git tiende a incluir útiles mejoras en la interfaz de usuario, por lo que utilizar la última versión es a menudo el camino más adecuado si te sientes cómodo compilando software desde código fuente. También ocurre que muchas distribuciones de Linux contienen paquetes muy antiguos; así que a menos que estés en una distribución muy actualizada o estés usando backports, instalar desde código fuente puede ser la mejor apuesta.

Para instalar Git, necesitas tener las siguientes librerías de las que Git depende: curl, zlib, openssl, expat, y libiconv. Por ejemplo, si estás en un sistema que tiene yum (como Fedora) o apt-get (como un sistema basado en Debian), puedes usar uno de estos comandos para instalar todas las dependencias:

```
$ yum install curl-devel expat-devel gettext-devel \
  openssl-devel zlib-devel

$ apt-get install libcurl4-gnutls-dev libexpat1-dev gettext \
  libz-dev
```

Cuando tengas todas las dependencias necesarias, puedes descargar la versión más reciente de Git

1. bash

```
Last login: Mon May  6 13:01:40 on ttys001
bernardisa:~ bernardisa$ git
usage: git [--version] [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
           [-p|--paginate|--no-pager] [--no-replace-objects] [--bare]
           [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
           [-c name=value] [--help]
           <command> [<args>]

The most commonly used git commands are:
add          Add file contents to the index
bisect       Find by binary search the change that introduced a bug
branch      List, create, or delete branches
checkout    Checkout a branch or paths to the working tree
clone       Clone a repository into a new directory
commit      Record changes to the repository
diff        Show changes between commits, commit and working tree, etc
fetch       Download objects and refs from another repository
grep        Print lines matching a pattern
init        Create an empty git repository or reinitialize an existing one
log         Show commit logs
merge       Join two or more development histories together
mv          Move or rename a file, a directory, or a symlink
pull       Fetch from and merge with another repository or a local branch
push        Update remote refs along with associated objects
rebase     Forward-port local commits to the updated upstream head
reset      Reset current HEAD to the specified state
rm          Remove files from the working tree and from the index
show        Show various types of objects
status     Show the working tree status
tag         Create, list, delete or verify a tag object signed with GPG

See 'git help <command>' for more information on a specific command.
bernardisa:~ bernardisa$
```

# NEW DIRECTIONS

## NEW YORK

The screenshot shows the Atlassian Git Flow interface for a repository named "figment-documents (Git)".

**Toolbar:** View, Commit, Checkout, Reset, Stash, Add, Remove, Add/Remove, Fetch, Pull, Push, Branch, Merge, Tag, Git Flow.

**FILE STATUS:** Working Copy (checked).

**BRANCHES:** master (selected).

**TAGS:** None.

**REMOTES:** origin.

**STASHES:** None.

**SUBMODULES:** None.

**Commit History:**

Graph	Description	Commit	Author	Date
Uncommitted changes	origin/master → master ADD // Filles	06d103d	Alejandro M. Bernardis <alejandro.bernardis@figment.com.mx>	May 6, 2013 3:4...
	WM // Fixes	65069bb	Alejandro M. Bernardis <alejandro.bernardis@figment.com.mx>	May 3, 2013 7:5...
	WM // Fixes	9acf6a	Alejandro M. Bernardis <alejandro.bernardis@figment.com.mx>	May 3, 2013 5:3...
	ADD // Files	849e7aa	Alejandro M. Bernardis <alejandro.bernardis@figment.com.mx>	May 2, 2013 5:4...
	ADD // Files	f5b746a	Alejandro M. Bernardis <alejandro.bernardis@figment.com.mx>	May 2, 2013 5:4...

**Commit Details:**

Commit: 06d103d8616586c9f035e30a487a32f7d9147c07 [06d103d]  
Parents: 65069bbbac  
Author: Alejandro M. Bernardis <alejandro.bernardis@figment.com.mx>  
Date: May 4, 2013 3:04:36 PM CDT  
Labels: HEAD origin/master master

**File Preview:** documents/Figment\_Services.numbers

**Context:** 3 Lines, Diff, Show Whitespace, External.

**Preview Options:** Preview 'After', Open 'Before', Open 'After'.

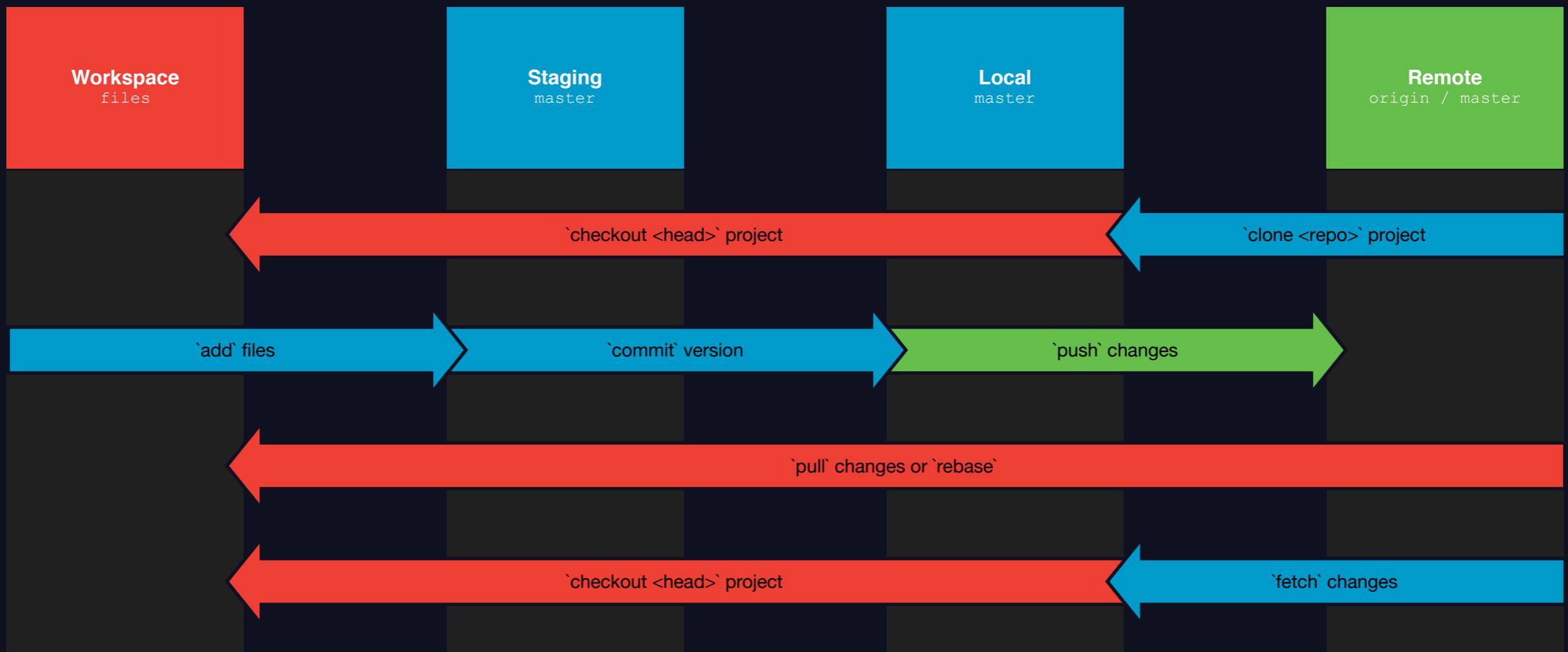
**Bottom Status Bar:** master, Clean, 1 Not Tracked.

GUI

Atlassian

A young boy with blonde hair, wearing blue sunglasses and green headphones, sits on the shoulders of an adult. He is clapping his hands and looking upwards. He is wearing a blue t-shirt with a cartoon character on it. The background is blurred, showing other people at what appears to be an event.

# FIRST STEPS



```
$ cd ~  
$ ls -ld .* | grep git  
-rw-r--r-- user group May  8 10:00 .gitconfig  
-rw-r--r-- user group May  8 10:00 .gitignore_global
```

```
$ vim ~/.gitconfig
[user]
    name = Alejandro M. Bernardis
    email = alejandro.bernardis@figment.com.mx
[core]
    excludesfile = /home/bernardisa/.gitignore_global
    editor = mate -w
~
```

```
$ vim ~/.gitignore_global
# Examples
# -----
*~
*.ext
.file
.folder
folder
file.ext

# OS generated files
# -----
.DS_Store
.DS_Store?
._*
.Spotlight-V100
.Trashes
Icon?
ehthumbs.db
Thumbs.db
~
~
~
~
```



# COMMANDS

```
# Configuración
$ git config --global user.name "John Doe"
$ git config --global user.email johndoe@example.com
```

```
# Creación
$ mkdir -p ~/projects/git-my-first-repo
$ cd ~/projects/git-my-first-repo

# Inicialización
$ git init

# Crear archivos: ` .gitignore` and ` README.md`
$ touch .gitignore README.md

# Agregar y Commitear
$ git add .
$ git commit -m 'GIT // Ignore and Readme Files'
```

```
# Creación
$ mkdir -p ~/projects
$ cd ~/projects

# Inicialización
$ git clone git@domain.com:user/git-my-first-repo.git

# Crear archivos: ` .gitignore` and ` README.md`
$ touch .gitignore README.md

# Agregar y Commitear
$ git add .
$ git commit -m 'GIT // Ignore and Readme Files'
```

```
# Repositorio remoto: <repo>
git@bitbucket.org:figment_mexico/figment-workshop-git.git
```

```
# Creación
$ mkdir -p ~/projects
$ cd ~/projects

# Inicialización
$ git clone <repo>

# Crear archivos: ` .gitignore` and ` README.md`
$ touch .gitignore README.md

# Agregar y Commitear
$ git add .
$ git commit -m 'GIT // Ignore and Readme Files'
```

```
# Visualizar estado
$ git status
~
# On branch master
nothing to commit (working directory clean)

# Crear archivo: `AUTHORS.md`
$ touch AUTHORS.md

# Visualizar estado
$ git status
~
# On branch master
# Untracked files:
#   (use "git add <file>..." to include in what will be committed)
#
#   AUTHORS.md
nothing added to commit but untracked files present (use "git add" to track)
```

```
# Agregar archivo: `AUTHORS.md`  
$ git add AUTHORS.md  
$ git commit -m 'GIT // Authors File'  
  
# Visualizar estado  
$ git status  
~  
# On branch master  
# Changes to be committed:  
#   (use "git reset HEAD <file>..." to unstage)  
#  
#       new file:   AUTHORS.md
```

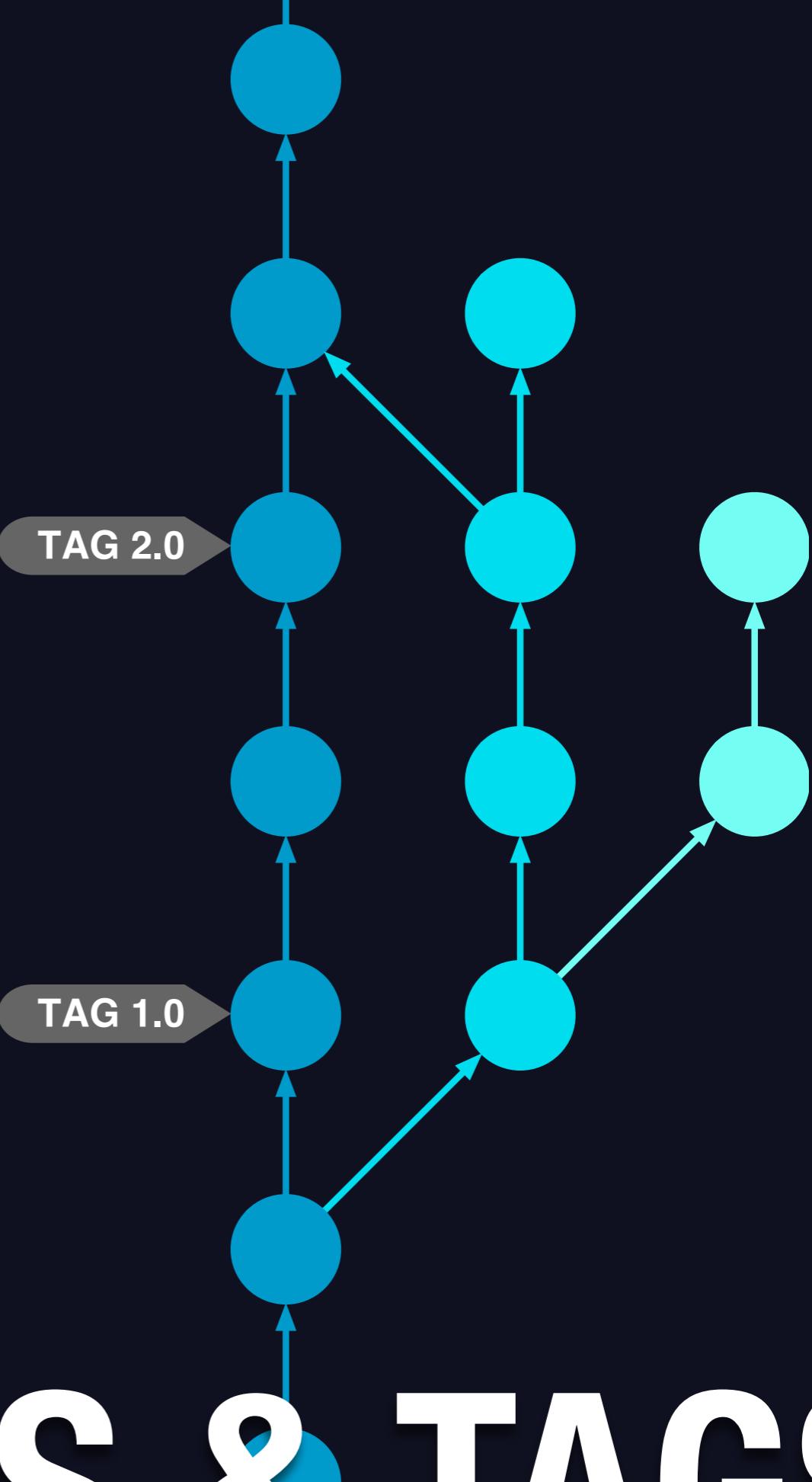
```
# Visualizar registros
$ git log
~
commit 3b0151323a7a2263e57b928b3e37712ea5290959
Author: Alejandro M. Bernardis <alejandro.bernardis@figment.com.mx>
Date:   Mon May  6 17:06:31 2013 -0500
```

#### GIT // Ignore and Readme Files

```
# Envío al repositorio remoto
$ git push origin master
~
Counting objects: 3, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 260 bytes, done.
Total 3 (delta 0), reused 0 (delta 0)
To git@bitbucket.org:figment_mexico/figment-workshop-git.git
 * [new branch]      master -> master
```

```
# Recuperar actualizaciones
$ git pull <origin>
~
remote: Counting objects: 39, done.
remote: Compressing objects: 100% (21/21), done.
remote: Total 22 (delta 8), reused 0 (delta 0)
Unpacking objects: 100% (22/22), done.
From bitbucket.org:figment_mexico/figment-workshop-git
  e4442ec..9c3df21  master      -> origin/master
```

# BRANCHES & TAGS

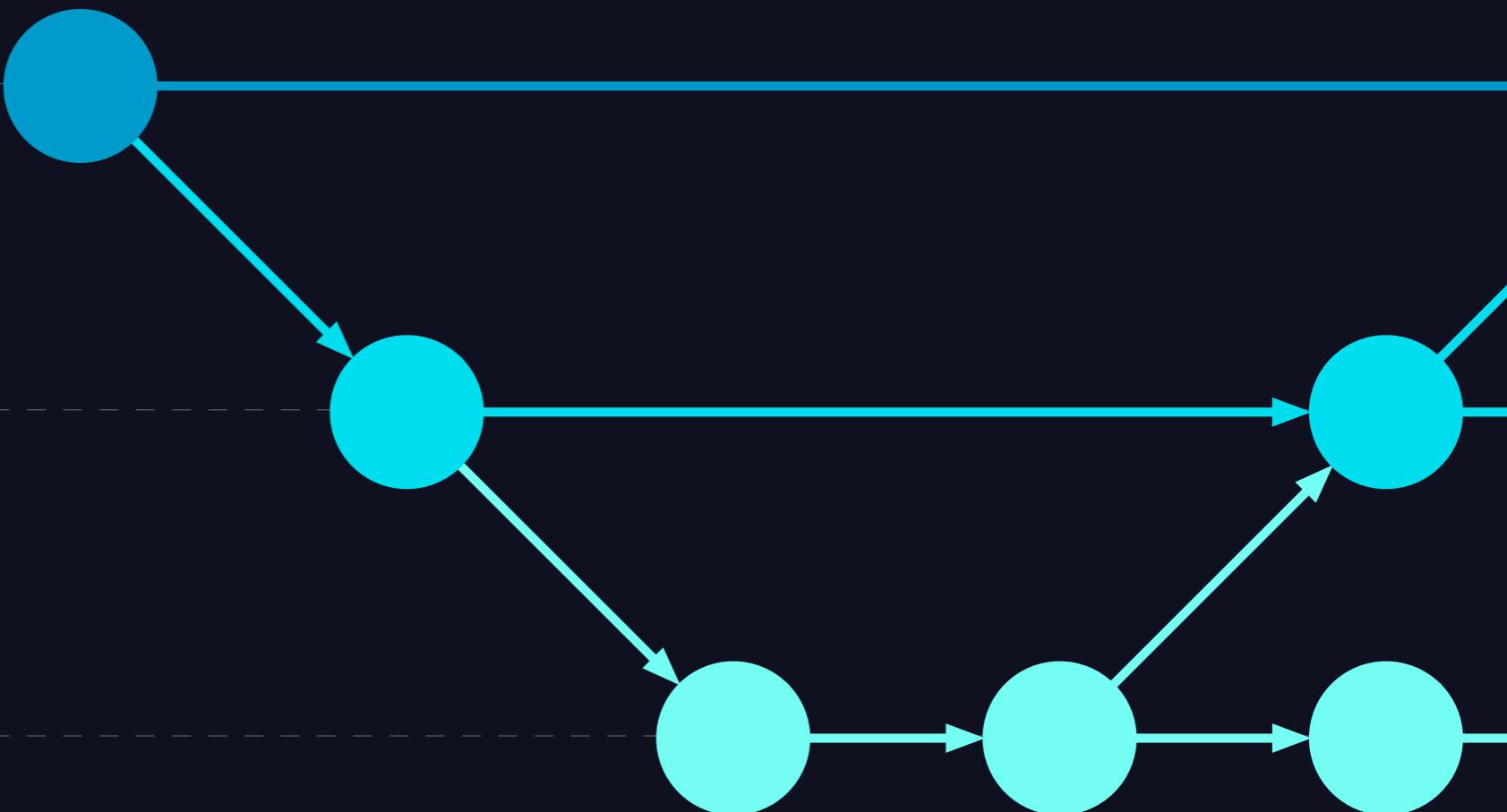


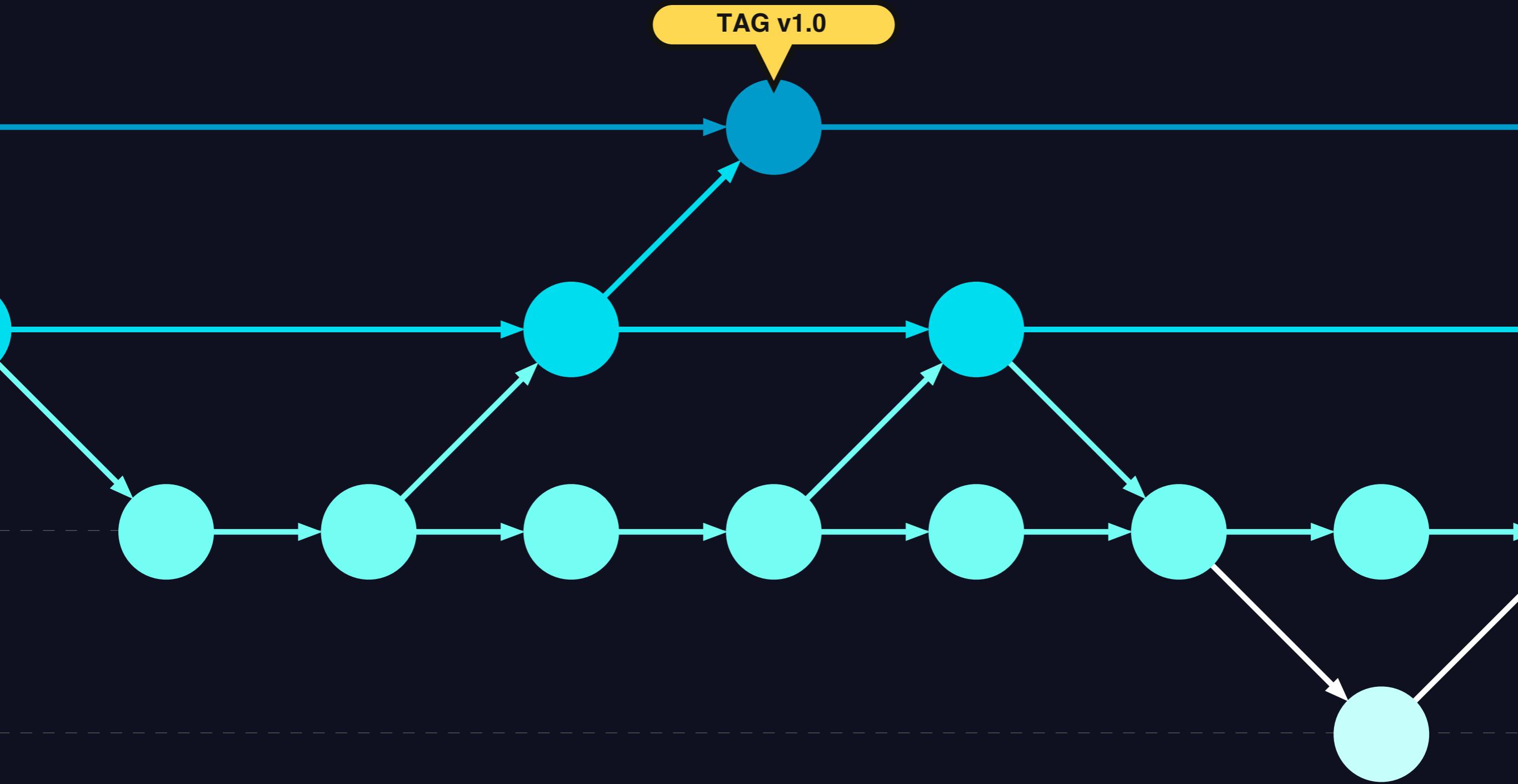
**PRODUCTION (master)**

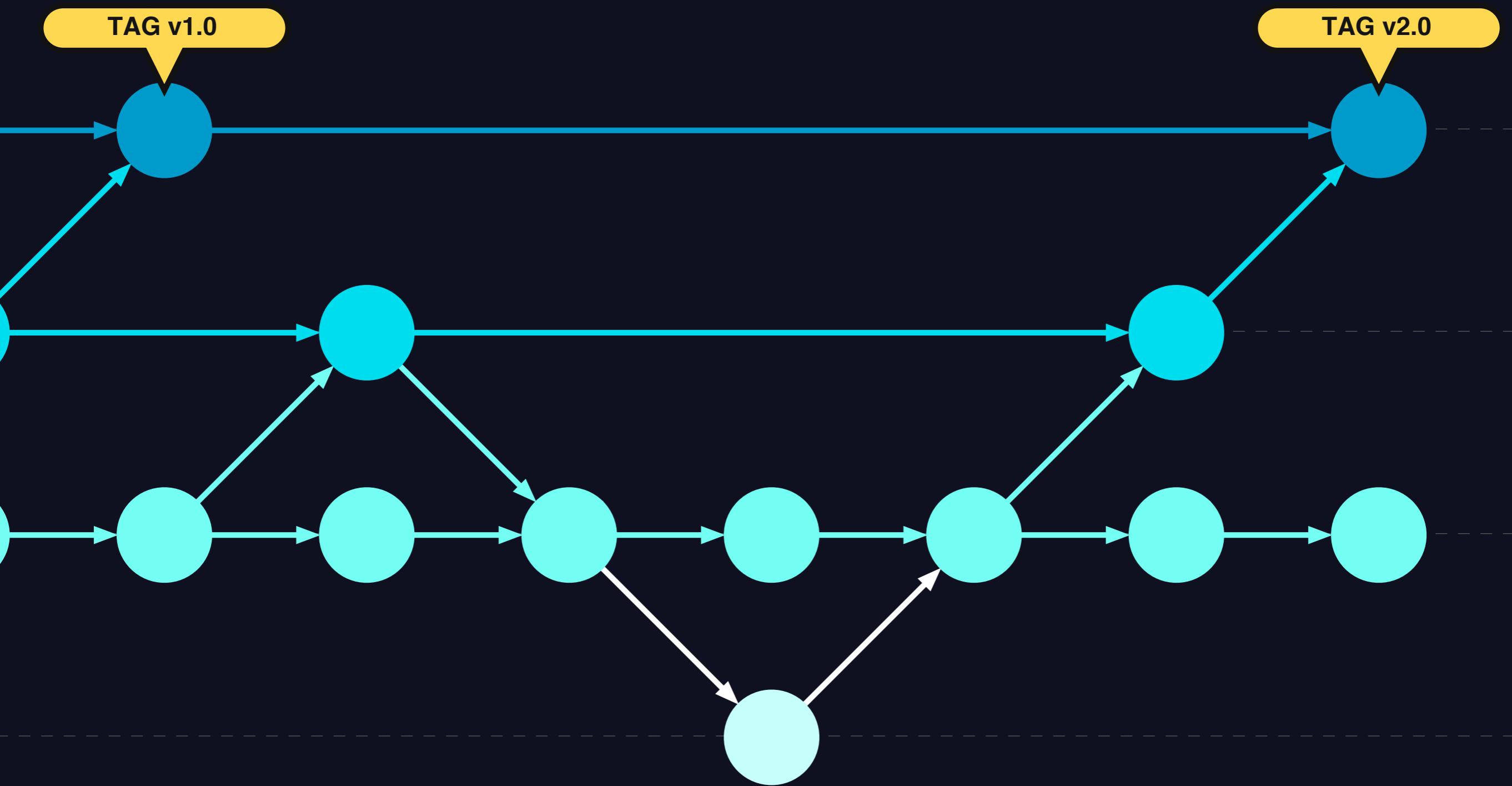
**STAGING**

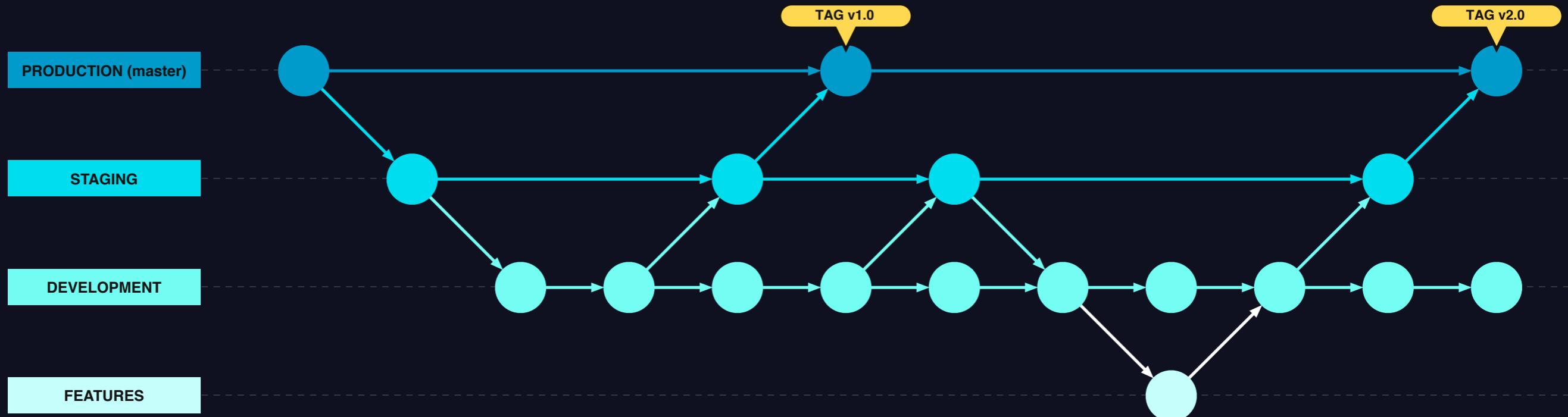
**DEVELOPMENT**

**FEATURES**









```
# Verificar rama  
$ git branch -v  
  
# Crear rama  
$ git branch <new_branch>  
$ git checkout -b <new_branch>  
  
# Cambiar rama  
$ git checkout <existing_branch>  
  
# Unir ramas  
$ git checkout <branch>  
$ git merge <branch>  
  
# Eliminar ramas  
$ git branch -d <branch>  
  
# Compartir ramas  
$ git push origin <branch>  
  
# Actualizar ramas  
$ git pull origin <branch>
```

# BRANCH

```
# Recuperar datos remotos  
$ git fetch origin  
  
# Trackear rama remota  
$ git checkout --track origin/<branch>  
  
# Crear rama desde otra remota  
$ git checkout -b <new_branch> origin/<remote_branch>  
$ git checkout -b <some_name> origin/<remote_branch>  
  
# Eliminar rama remota  
$ git push origin :serverfix
```

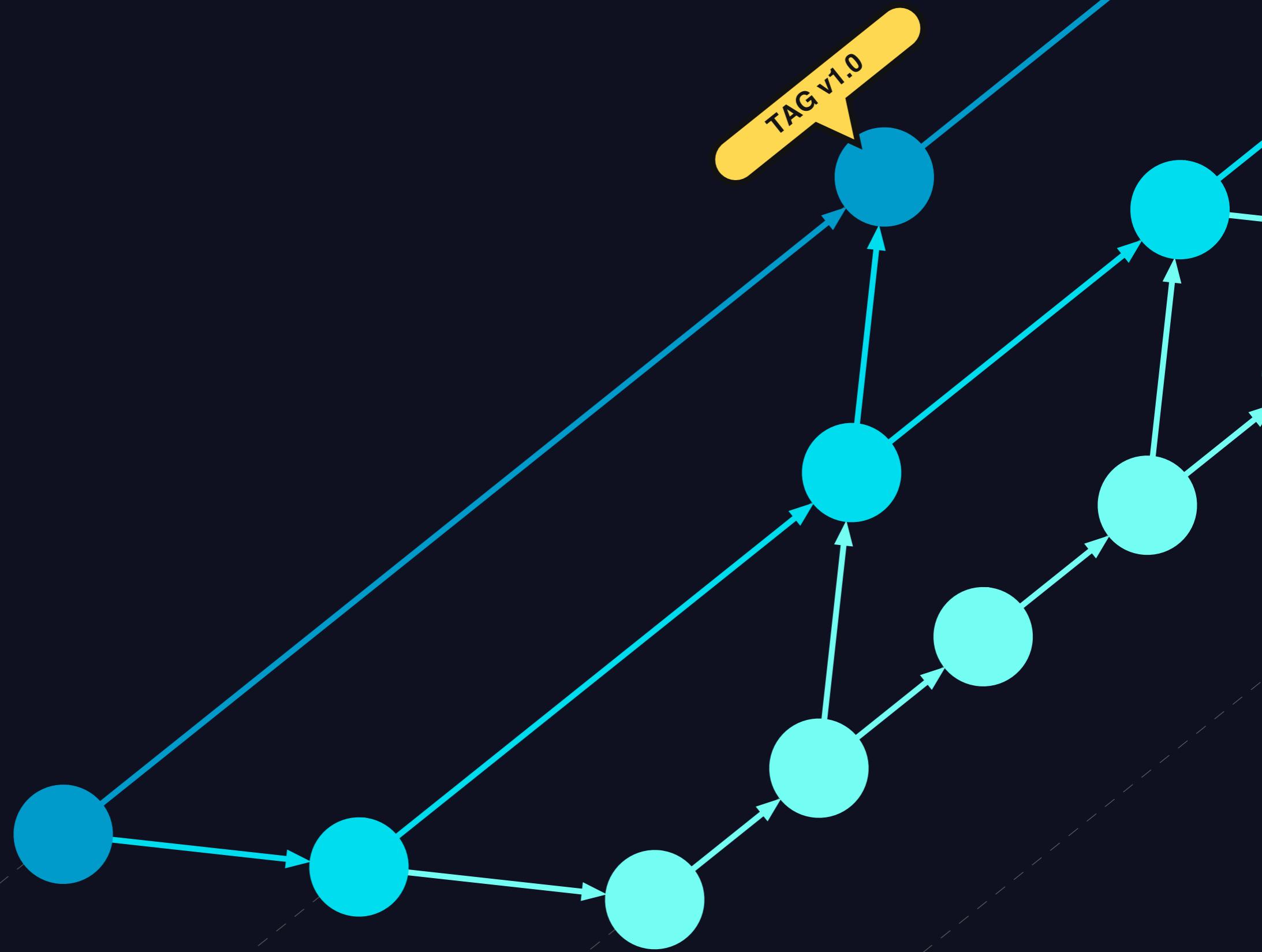
```
# Crear tag  
$ git tag <value>  
  
# Crear tag anotado  
$ git tag -a <value> -m '<message>'  
  
# Buscar tag  
$ git tag -l <value>  
  
# Visualizar tag  
$ git show <value>  
  
# Cambiar tag  
$ git checkout <value>  
  
# Compartir tag  
$ git push origin <value>
```

Ej#: <value> = v1.0

TAG

# FLOW

# INTRODUCTION (master)

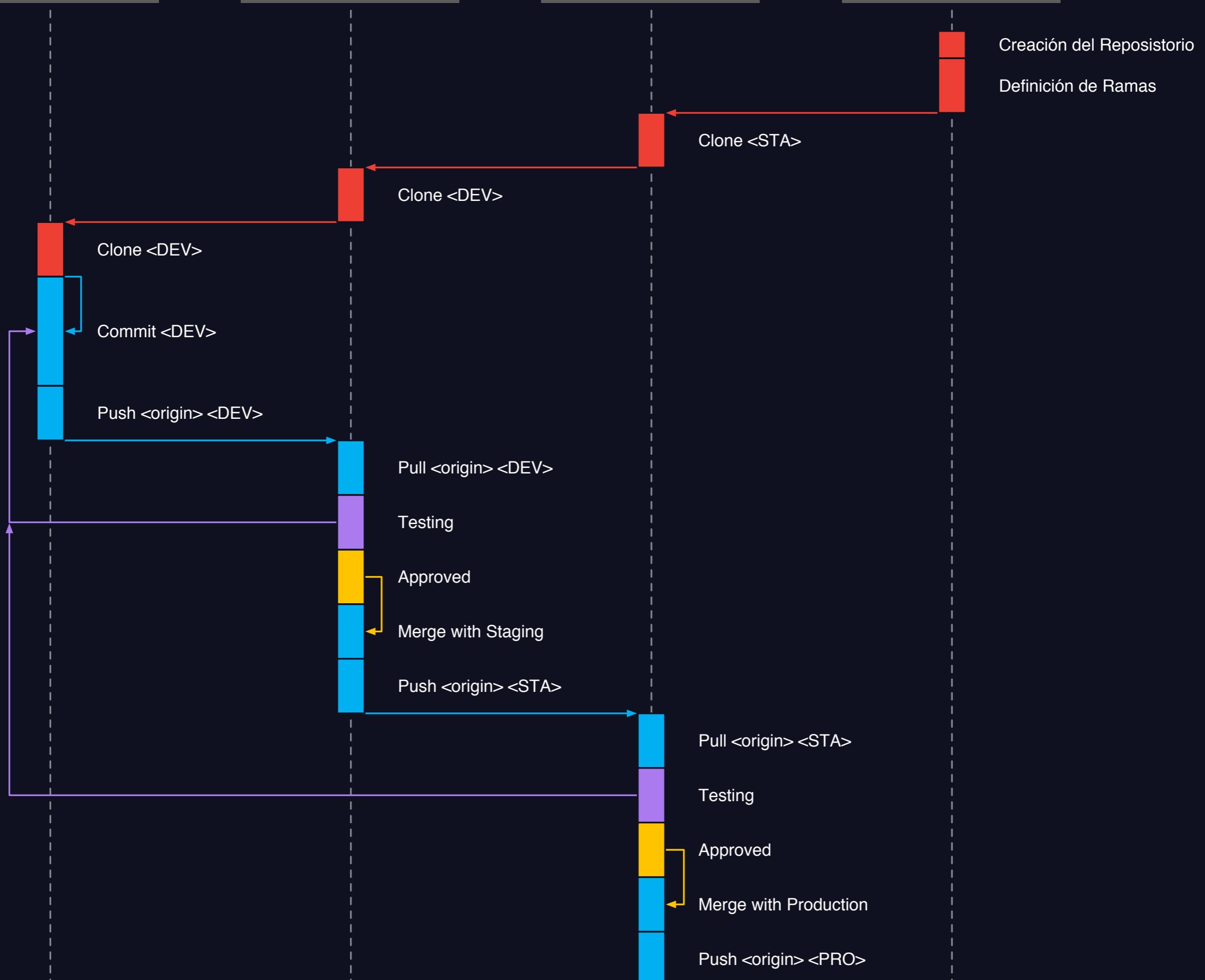


LOCAL

DEVELOPMENT

STAGING

PRODUCTION







FUCK YOU GITS!

```
# Eliminar archivo/directorio  
$ git rm <file_or_dir>  
  
# Renombrar/Mover archivo/directorio  
$ git mv <source> <destination>  
  
# Deshacer `commit`  
$ git commit -amend  
  
# Deshacer `add`  
$ git reset HEAD <file_or_dir>  
  
# Recuperar la última versión  
$ git checkout -- <file>  
  
# Recuperar la última versión  
$ git rebase <branch>  
  
# Revertir `commit`  
$ git revert <commit>  
  
# Limpia el repositorio  
$ git clean -df <file_or_dir>
```



LINKS

## **DOCUMENTACIÓN**

<http://git-scm.com/documentation>

<http://www.atlassian.com/git/tutorial/git-basics>

## **IDE**

<http://www.sourcetreeapp.com/>

## **SOCIAL CODING**

<https://github.com/>

<https://bitbucket.org/>

## **VIDEOS**

<https://www.youtube.com/watch?v=ZDR433b0HJY>

<https://www.youtube.com/watch?v=4XpnKHJAok8>



F

figment

grazie amici miei... dubbi?