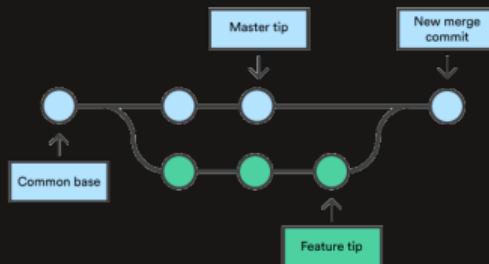


Curso de GIT y control de versiones

Diseño de dispositivos para el IoT



Marco Teran
Universidad Sergio Arboleda

Contenido

1 Presentación

2 ¿Qué es Git?

3 Git WorkFlow

4 Comandos Git

- Git Branch workflow

5 GitHub

Introducción



¿Qué es Git?

¿Qué es Git?

Git

Git es un software de control de versiones diseñado por **Linus Torvalds**, pensando en la eficiencia y la confiabilidad del mantenimiento de versiones de aplicaciones cuando estas tienen un gran número de archivos de código fuente.

■ **Página oficial de Git:** git-scm.com/





git

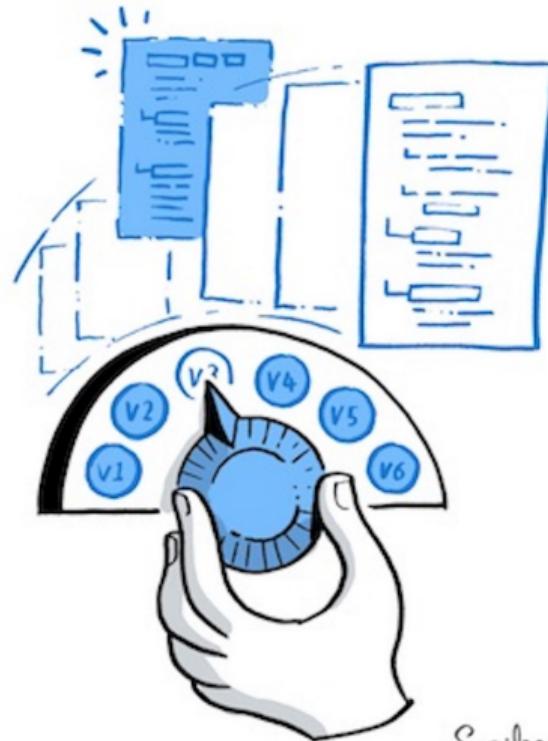
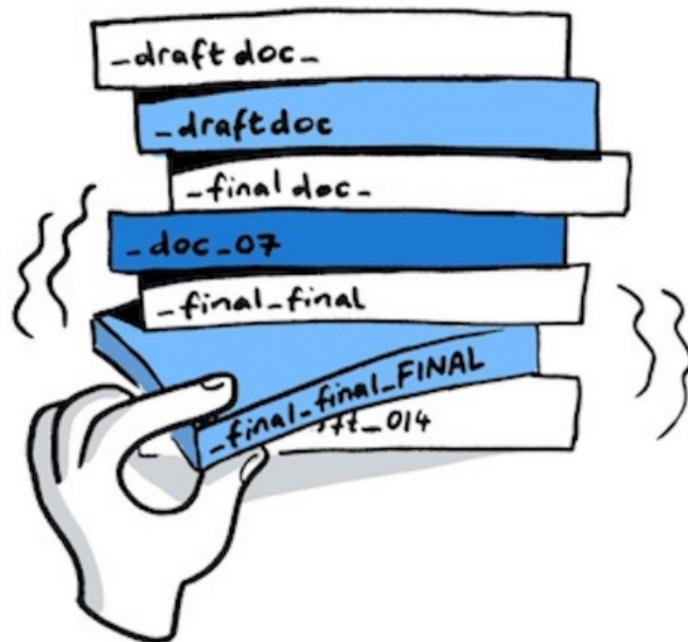


GitHub

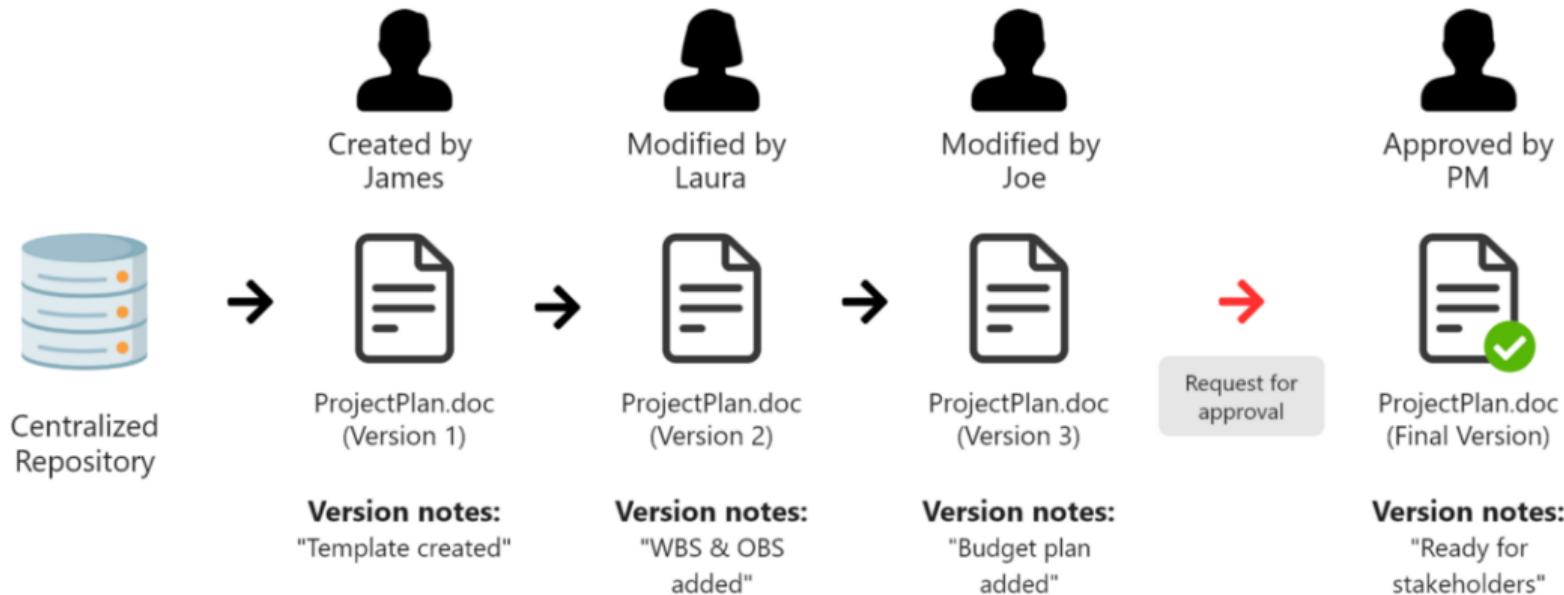
VERSION CONTROL



TRACK PROJECT HISTORY



Document Version Control Flow



Local Computer

Checkout

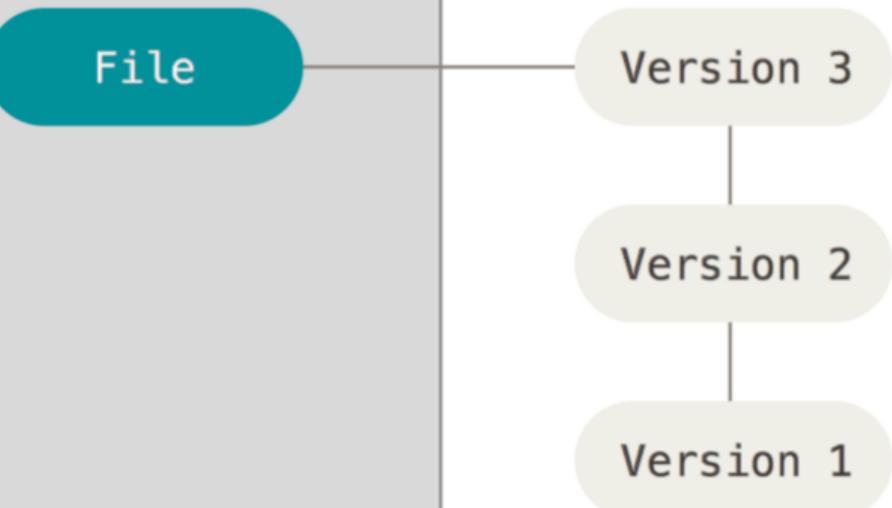
File

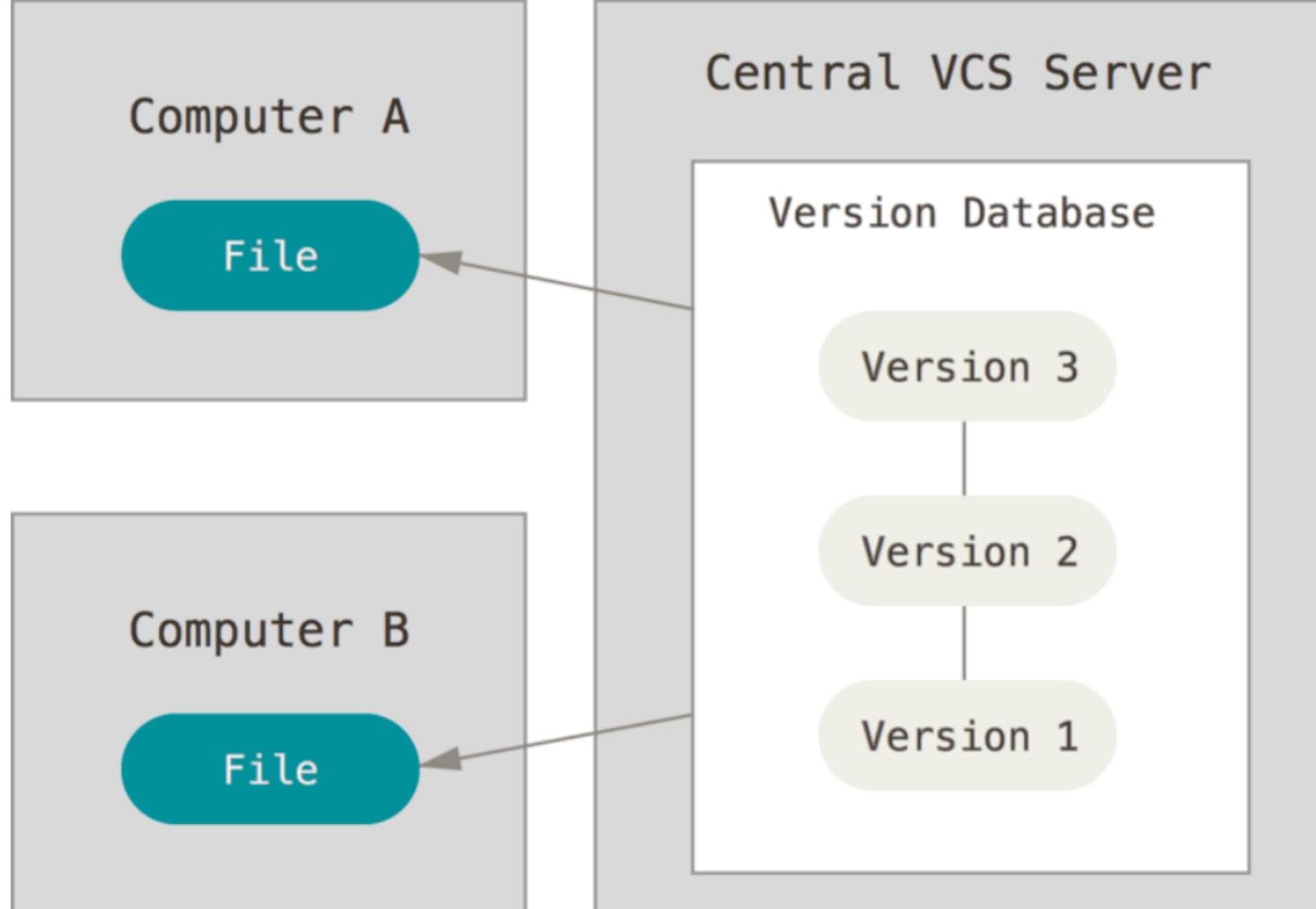
Version Database

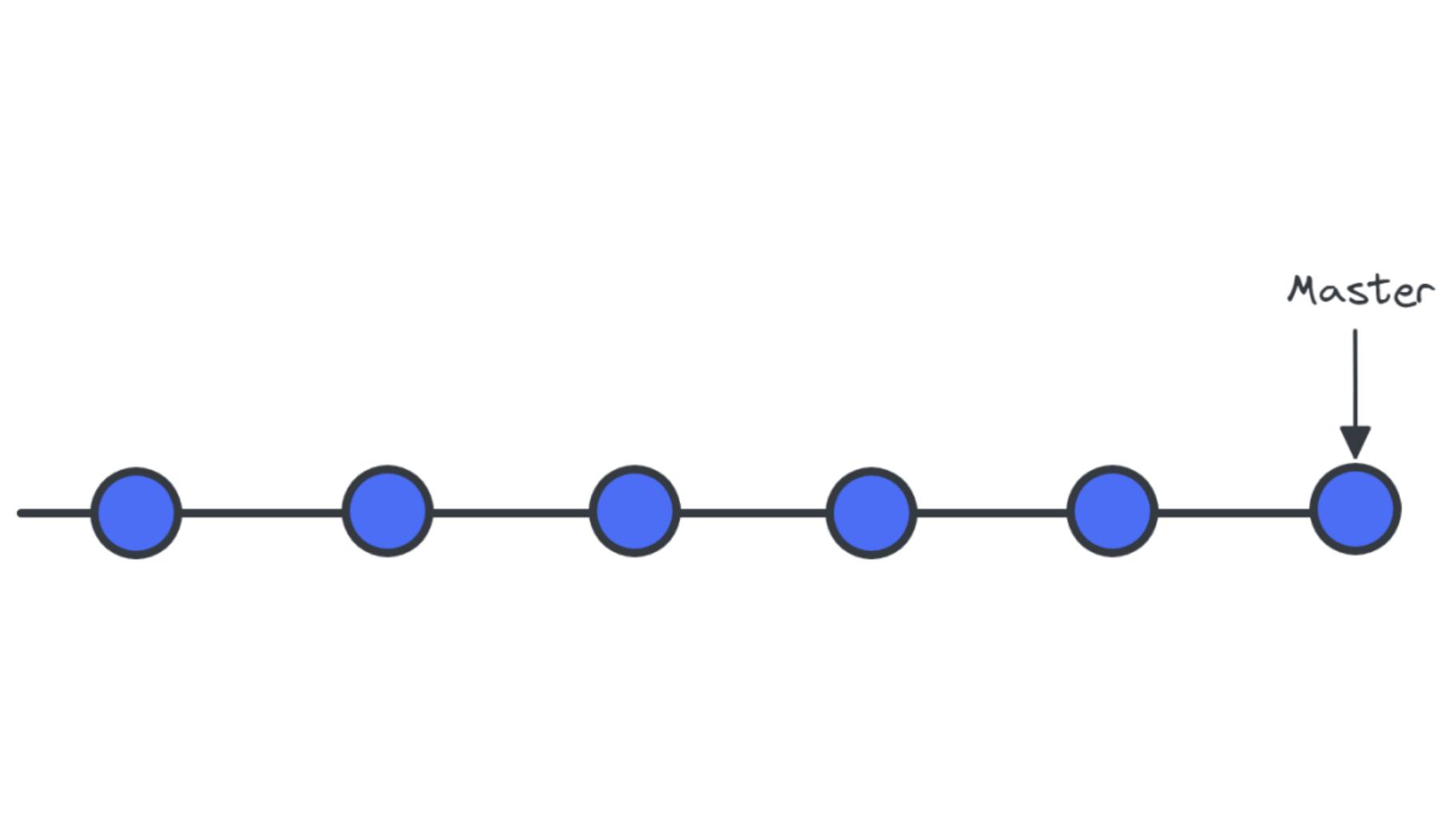
Version 3

Version 2

Version 1





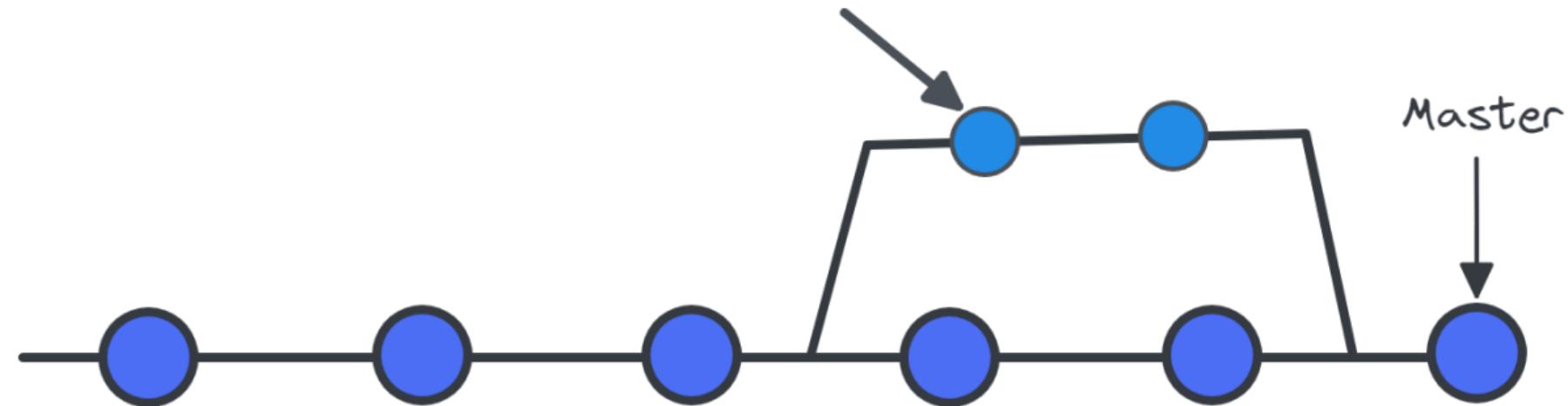


Master

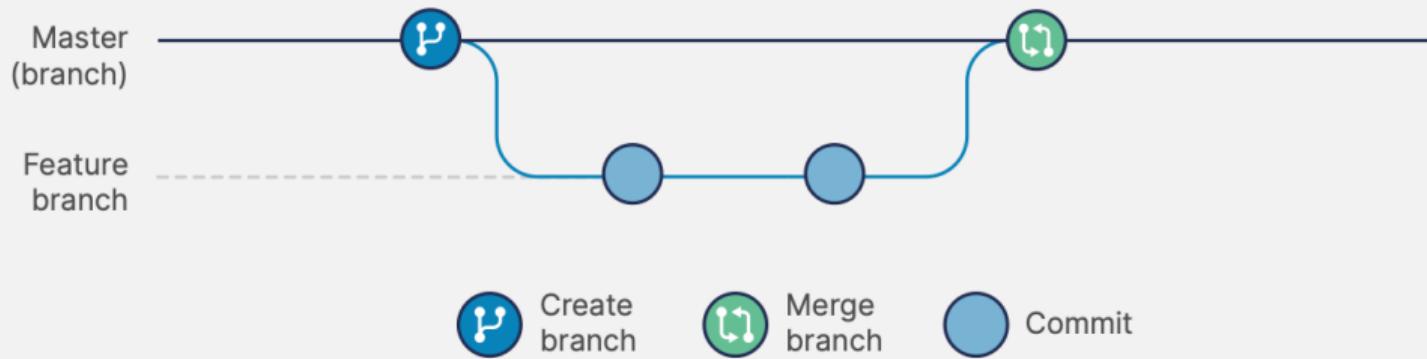
The diagram illustrates a linear sequence of six nodes, each represented by a blue circle with a black outline. The nodes are connected by a single horizontal black line. An arrow originates from the text "Master" and points downwards to the rightmost node, indicating it is the central node of the sequence.

New Feature Branch

Master



Repository

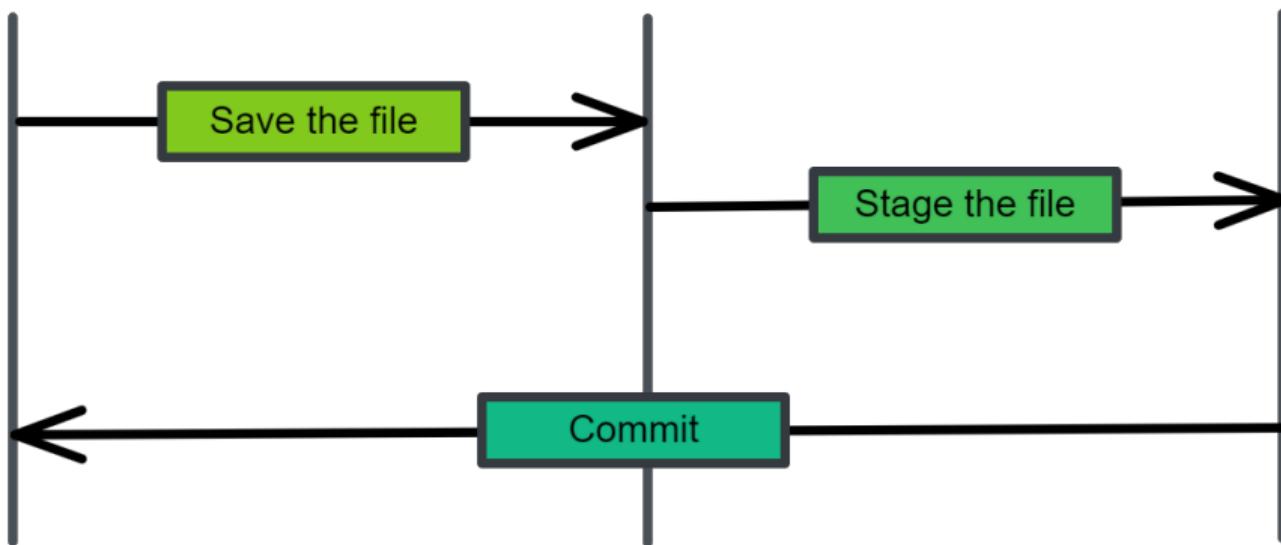


Tres estados en Git

Unmodified

Modified

Staged



Portafolio



Abid Ali Awan

kingabzpro

Love building machine learning product and working on MLOps. Currently, focusing on content creation, building brand, and startup.

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eXfinite

Islamabad

kingabzpro / README.md

Hey I'm Abid!

- 🏆 I am a certified data scientist professional, who loves building machine learning models.
- ✍️ I write blogs on data science and machine learning topics.
- 💻 I'm looking for an experience in the field of technical copywriting.
- ❤️ I'm open for collaborations in MLOps and Applied Machine Learning domains.
- 🎯 Goal (2022): Build an NLP startup (exfinite) for early detection of mental illness.

Competition Performance

[KAGGLE](#) [Z ZINDI](#) [DEVPOST](#) [DRIVENDATA](#) [DS COMPETITIONS](#) [DEEPNOTE](#) [BATTLE SNAKE](#)

Contact me on:



Road to Kaggle Grandmaster



WOLOF-ASR-Wav2Vec2 Public



Audio Preprocessing and finetuning of wav2vec2-large-xlsr model on AI4D Baamtu Datamation - Automatic Speech Recognition in WOLOF Data.

Jupyter Notebook 9 4

French-to-Fongbe-and-Ewe-MT Public



The objective of this challenge is to create a machine translation system capable of converting text from French into Fongbe or Ewe.

Jupyter Notebook 5 1

orchest/orchest Public



Build data pipelines, the easy way

Python 2.8k 150

v1a0/sqllex Public



The most pythonic ORM (for SQLite and PostgreSQL). Seriously, try it out!

Python 72 8

FastAPI-ML-Project Public



Learning and building API using Fast API

Python 7 3

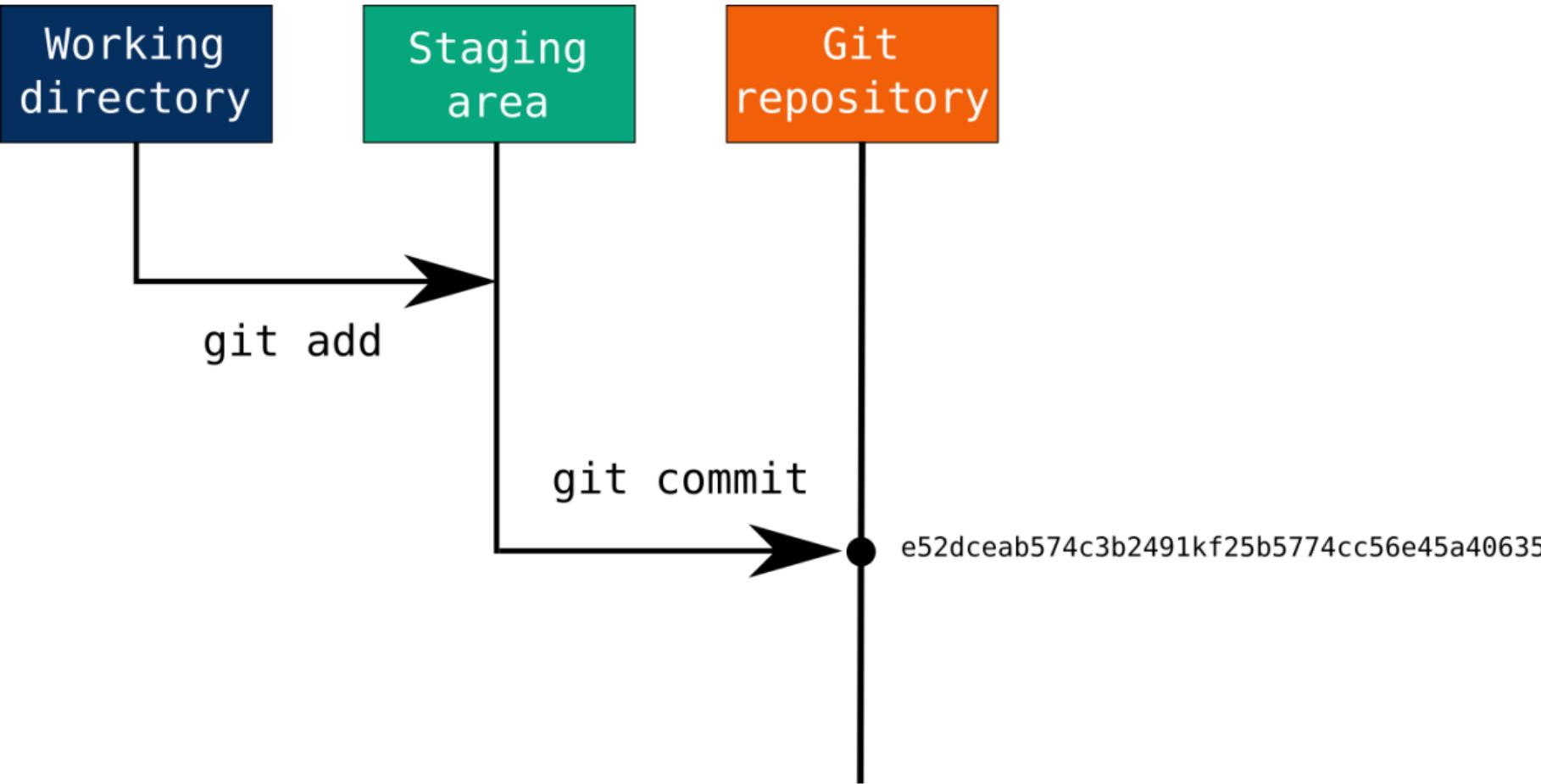
DAGsHub/audio-datasets Public



open-source audio datasets

34 16

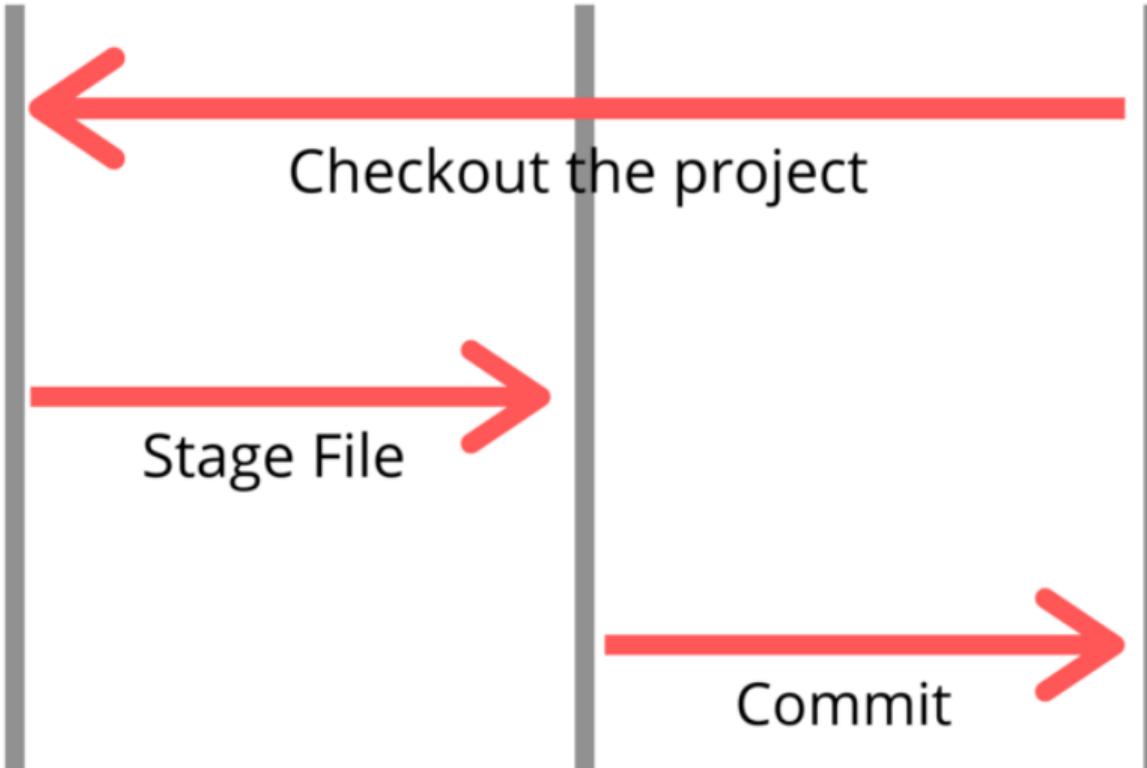
Git WorkFlow



Working
Directory

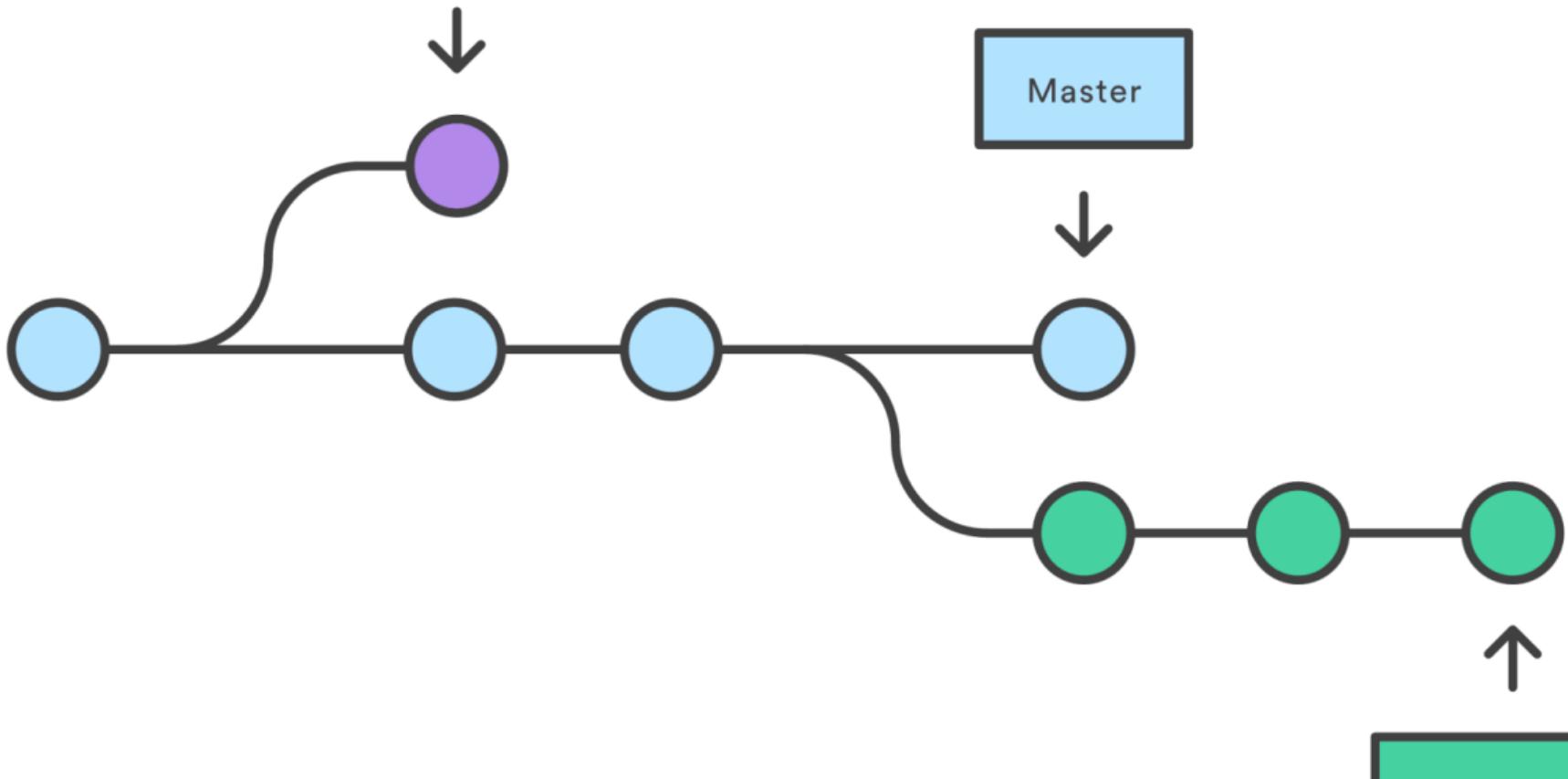
Staging
Area

Git Directory
(Repository)

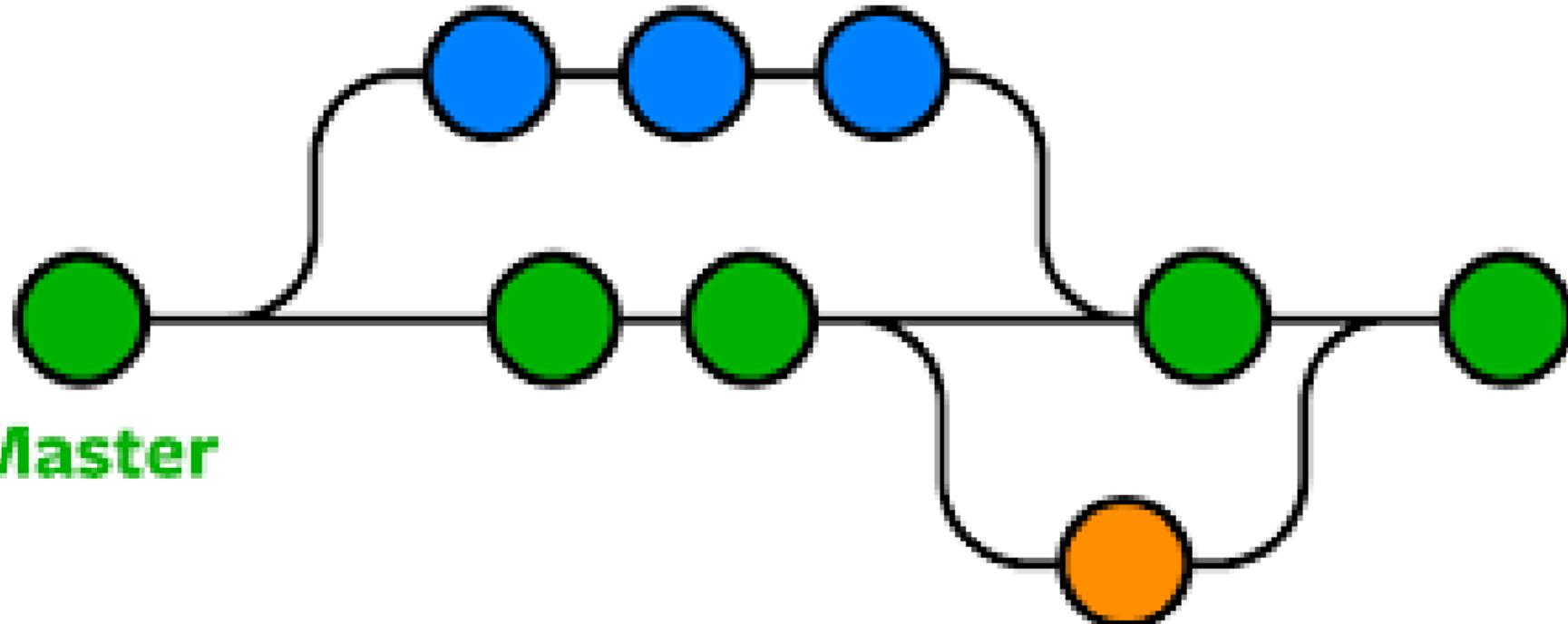


Little Feature

Master

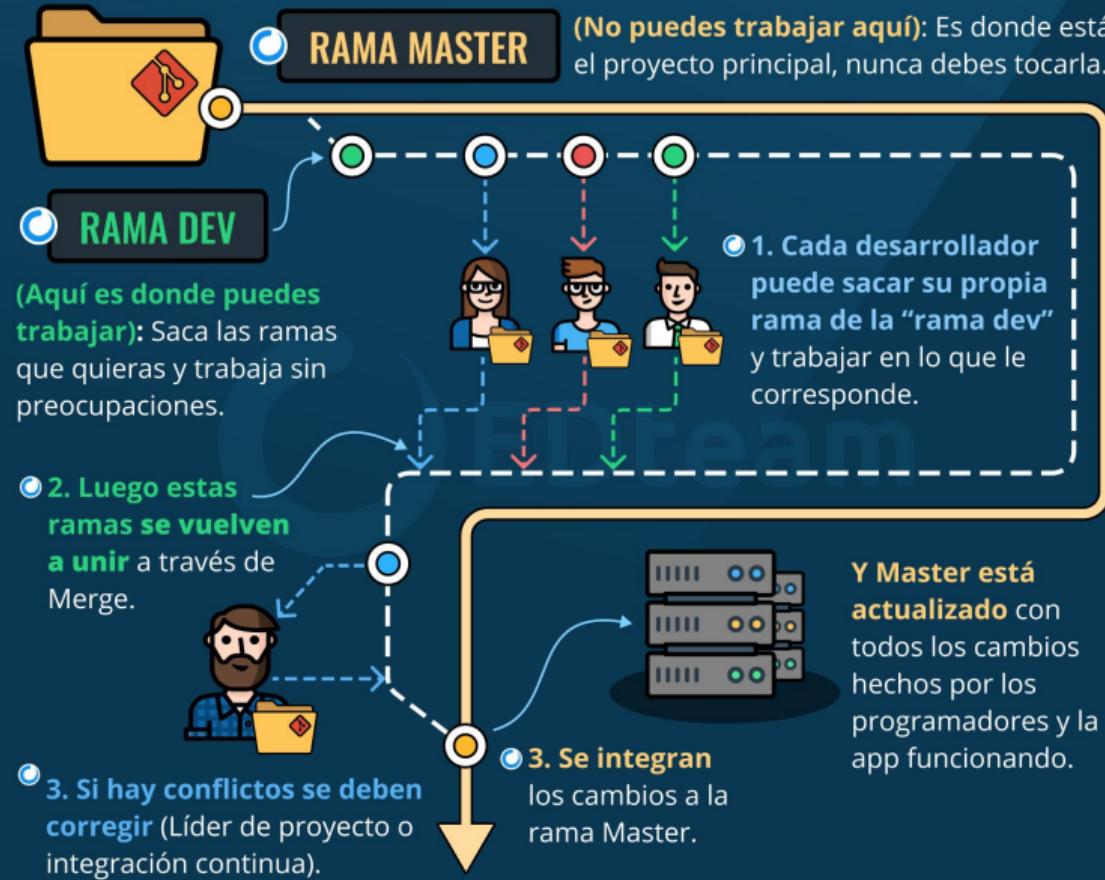


Your Work

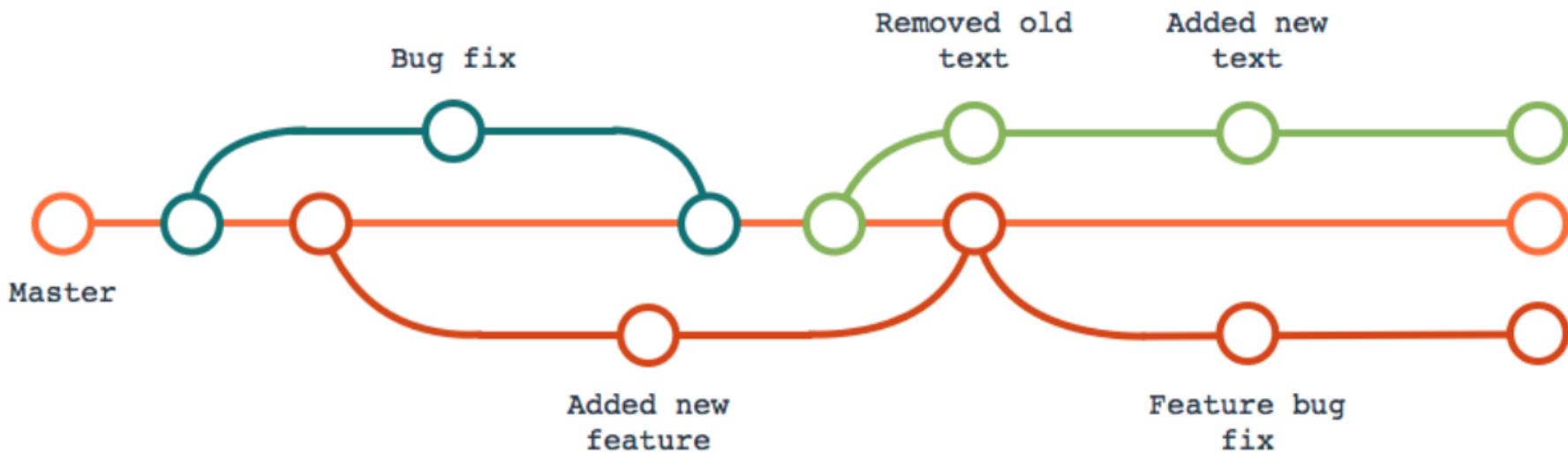


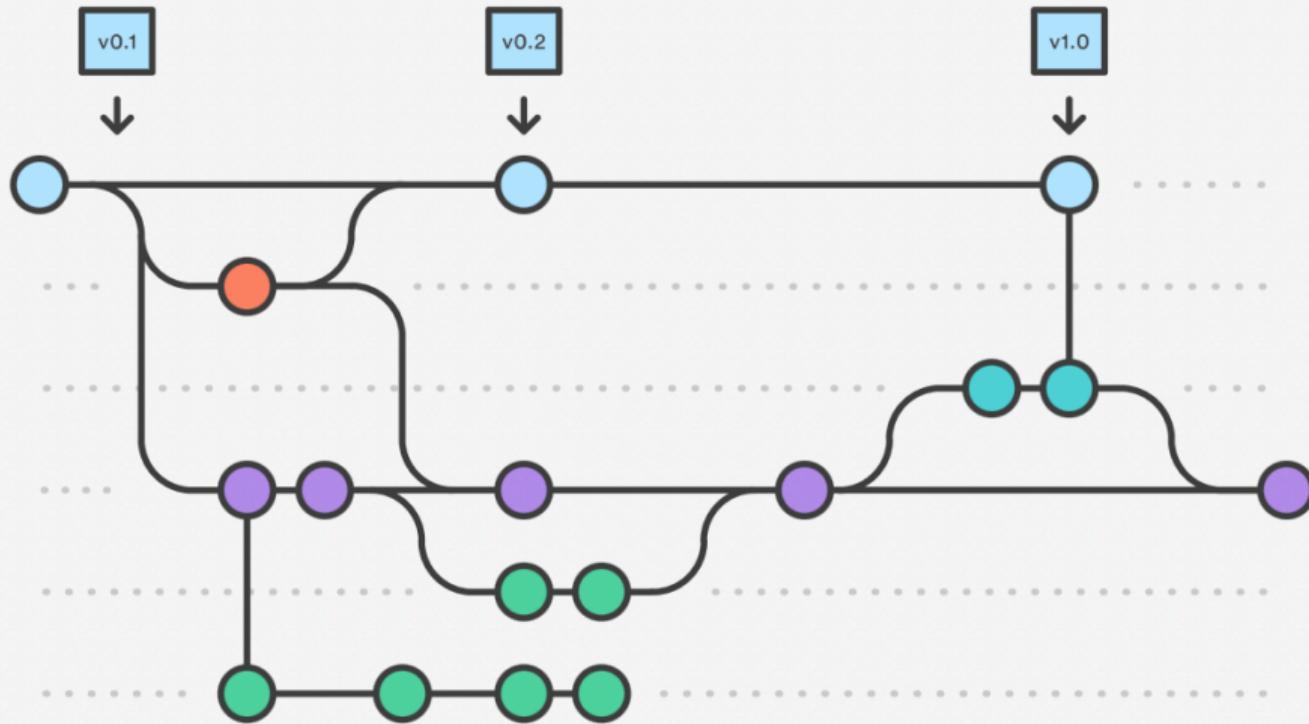
Someone Else's Work

¿CÓMO TRABAJAR EN EQUIPO CON GIT?

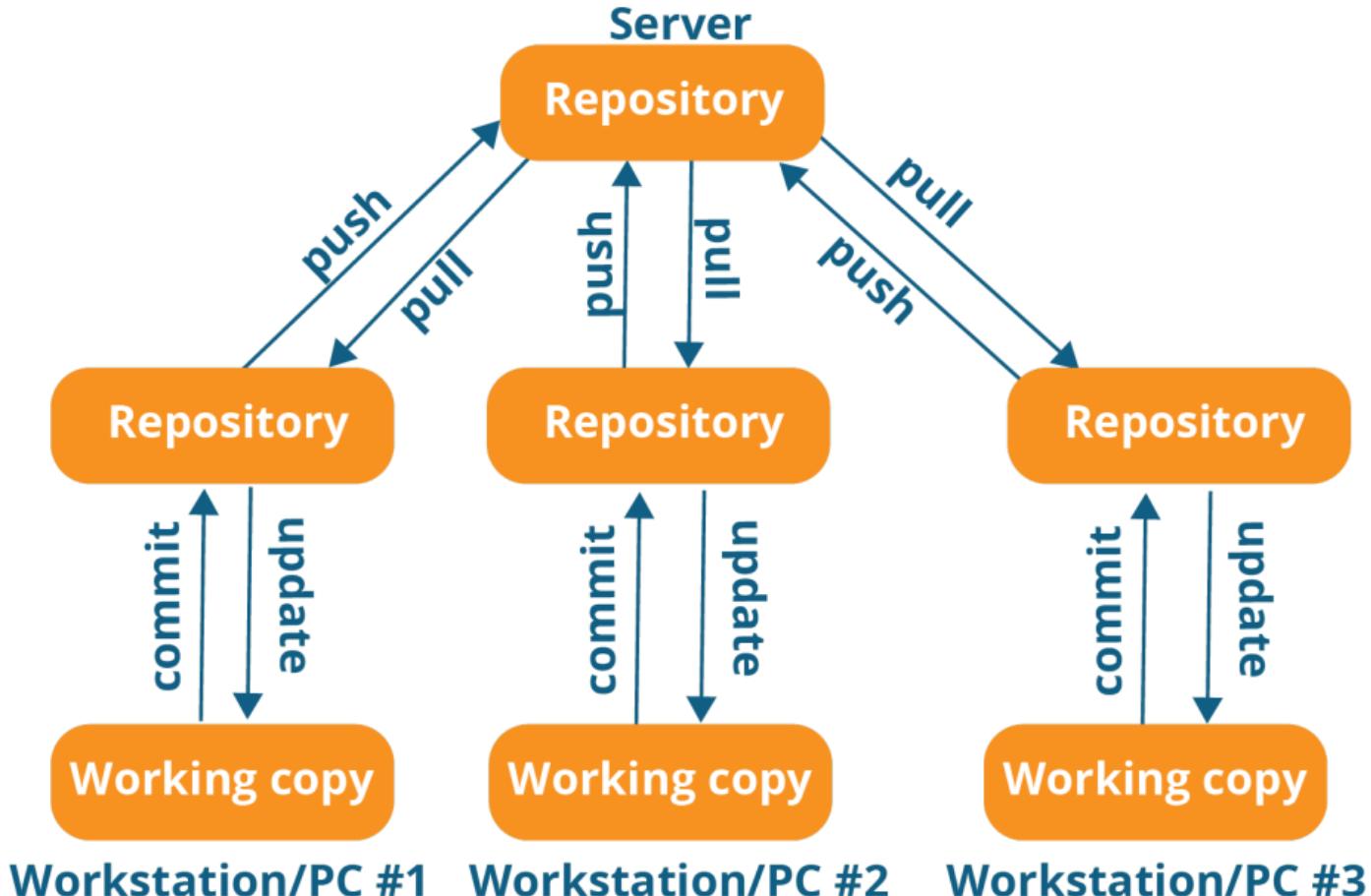


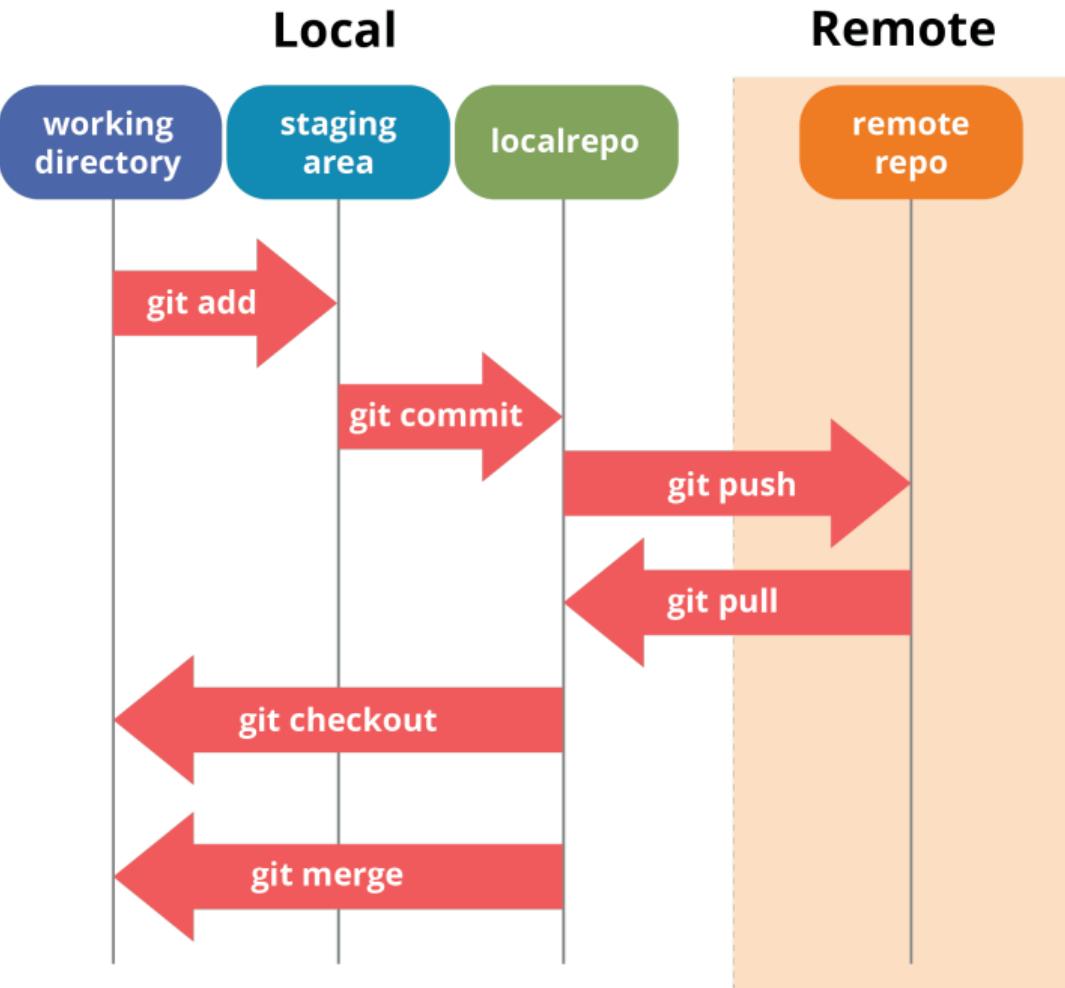
Ejemplo





Distributed version control system



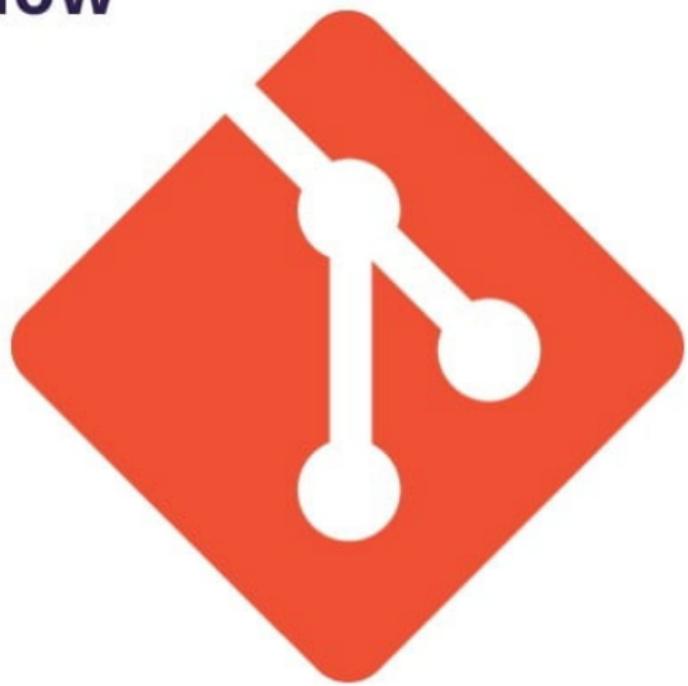


Comandos Git

Essential git commands every developer

Git Clone should know

- Git branch**
- Git checkout**
- Git status**
- Git add**
- Git commit**
- Git push**
- Git pull**
- Git revert**
- Git merge**
- Git remote**
- Git fetch**



GIT es un sistema de control de versiones

que nos ayuda a llevar el historial completo de modificaciones de un proyecto.

GIT INIT



Inicia un nuevo repositorio.

GIT ADD



Añade un archivo a la zona de montaje. `git add *` añade uno o más archivos a la zona de montaje.

GIT LOG



Se utiliza para listar el historial de versiones de la rama actual.

GIT RESET



Descompone el archivo, pero conserva el contenido del mismo.

GIT CLONE



Clona un repositorio existente.

GIT CONFIG



Establece el nombre del autor, el correo y demás parámetros que Git utiliza por defecto.



GIT STATUS

Enumera todos los archivos que deben ser confirmados.

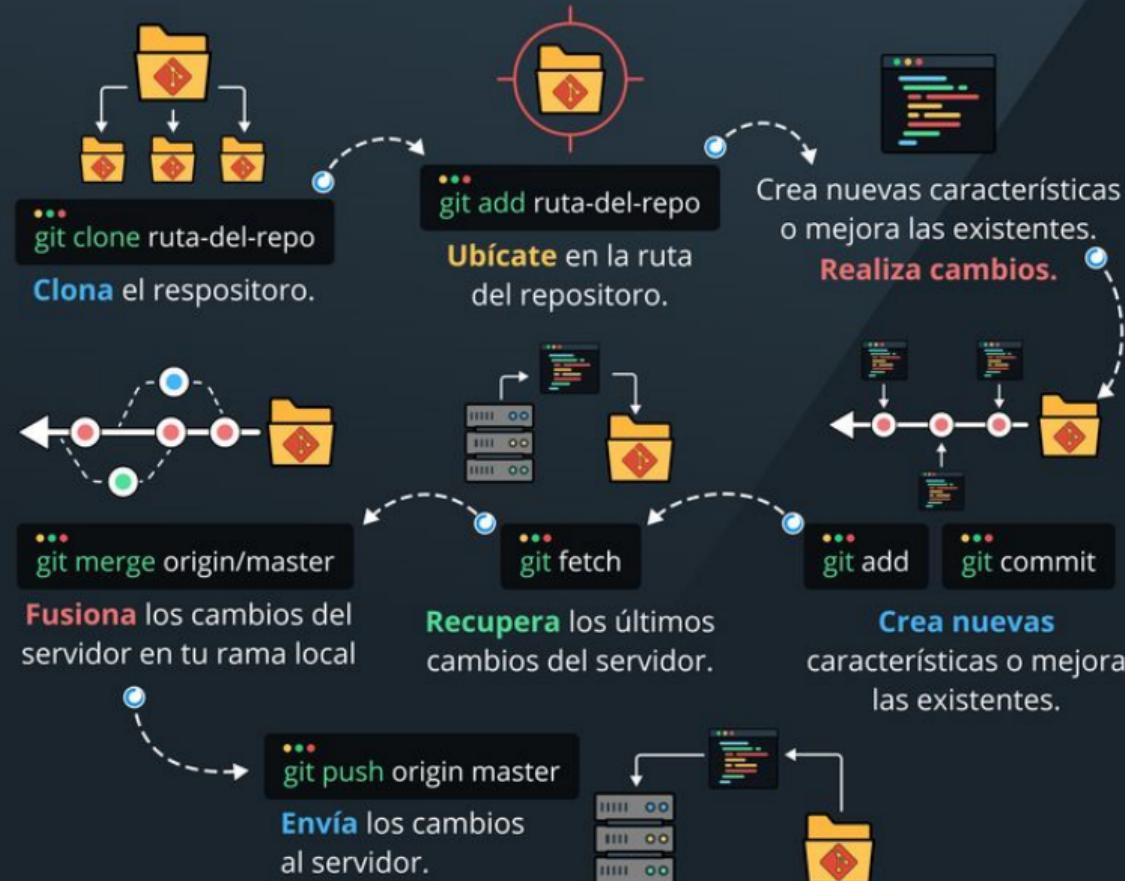


GIT DIFF

Muestra las diferencias de archivo que aún no se ponen en escena.

Git Branch workflow

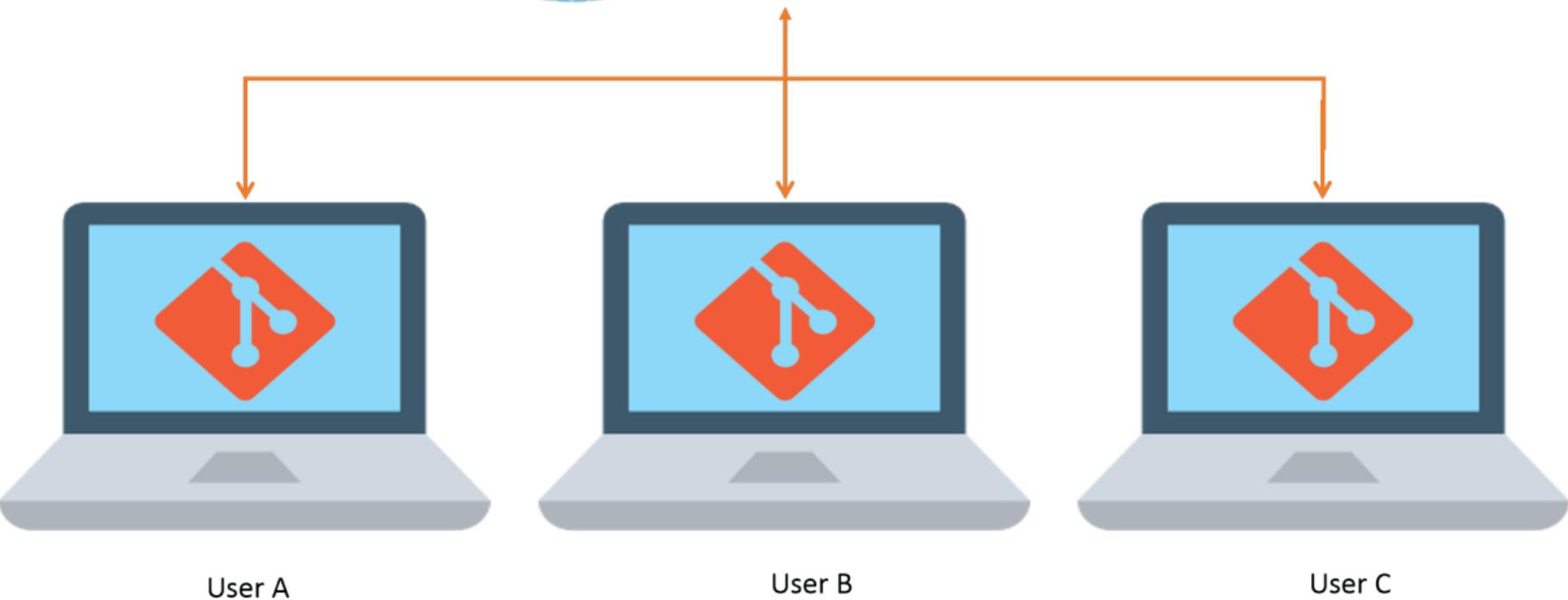
¿CÓMO CONTRIBUIR EN UN PROYECTO CON GIT?



GitHub



GitHub

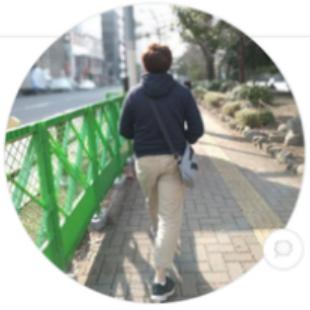




Microsoft

GitHub



**vn7**

vn7n24fzkq

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Taiwan

✉ vn7n24fzkq@gmail.com

🔗 <https://vn7n24fzkq.github.io/>

Highlights

* Arctic Code Vault Contributor



Organizations

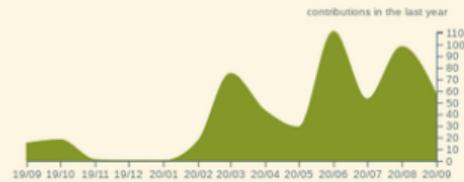


vn7n24fzkq / README.md

[Send feedback](#)

vn7n24fzkq (vn7)

- 844 contributions on GitHub
- 56 public repos
- Joined GitHub 4 years ago
- vn7n24fzkq@gmail.com



Repos per Language (top 5)

- Java
- Rust
- Kotlin
- HTML
- Vim script



Most Commit Language

- Java
- Kotlin
- Rust
- JavaScript
- Vim script



Pinned

[github-profile-summary-cards](#)

JavaScript ⚡ 1

[tipsy/javalin](#)

A simple and modern Java and Kotlin web framework

Kotlin ⭐ 4.2k ⚡ 367

[Customize your pins](#)[Rudge/kotlin-javalin-realworld-example-app](#)

Real world backend API built in Kotlin with Javalin + Koin + Exposed

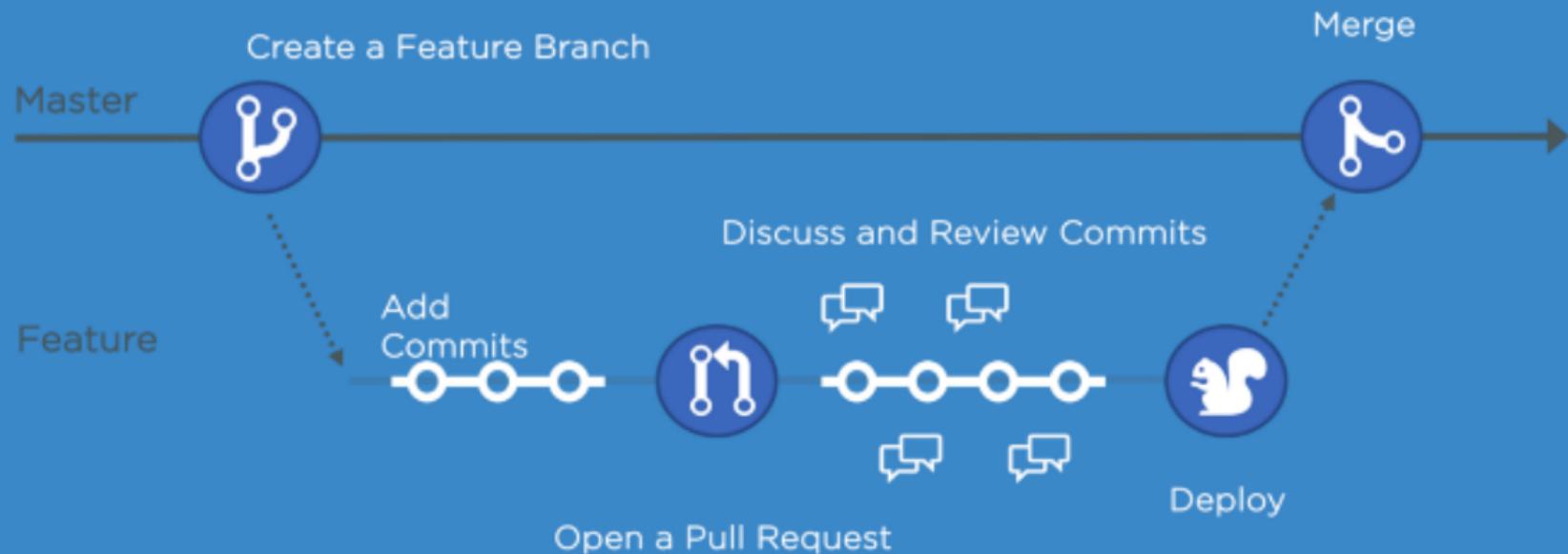
Kotlin ⭐ 79 ⚡ 27

[my-linux-config](#)

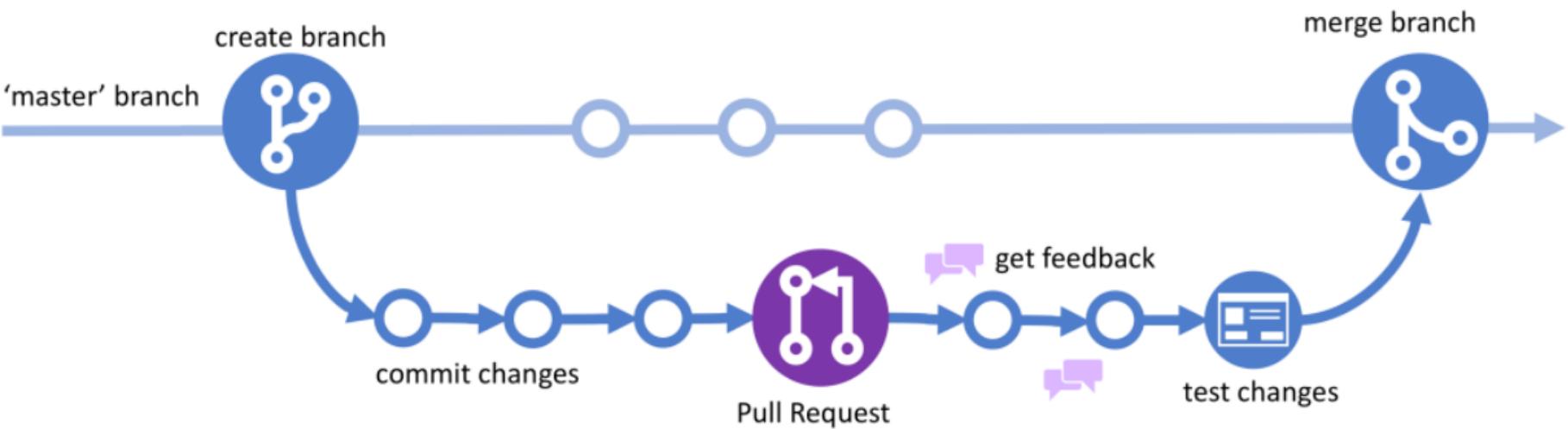
Vim script ⚡ 1

[My-Secure-Shell-App-Config](#)

GitHub Flow



GitHub Flow



Cloning

Cloning

Hay dos métodos principales para clonar un repositorio: la sintaxis HTTPS y la sintaxis SSH.

- Mientras que la clonación SSH se considera generalmente un poco más segura porque tienes que utilizar una clave SSH para la autenticación, la clonación HTTPS es mucho más simple y la opción de clonación recomendada por GitHub.

¡Muchas gracias por su atención!

¿Preguntas?



Contacto: Marco Teran
webpage: marcoteran.github.io/
e-mail: marco.teran@usa.edu.co

