

GIT 101

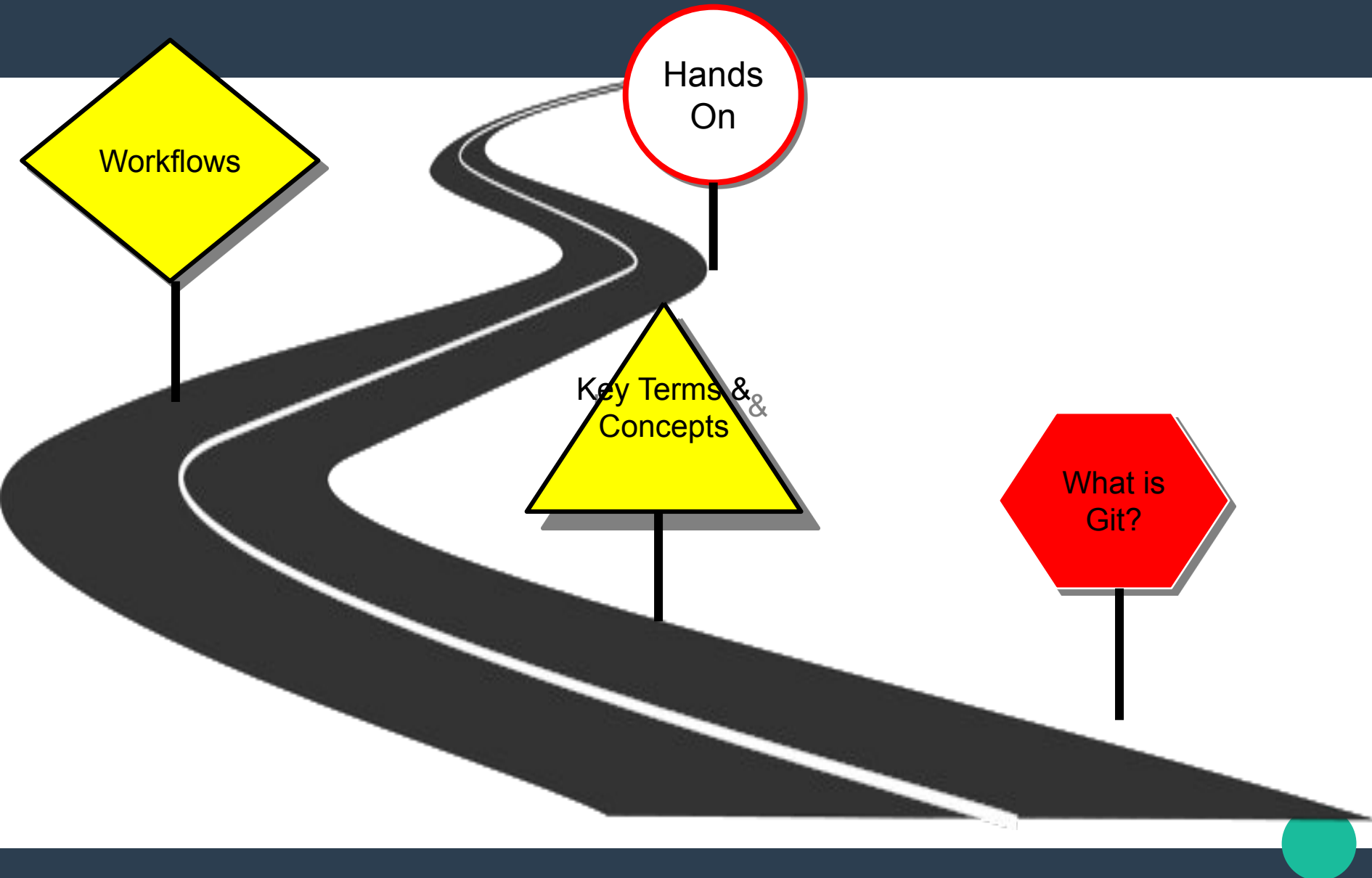
An introduction for Devs & Ops



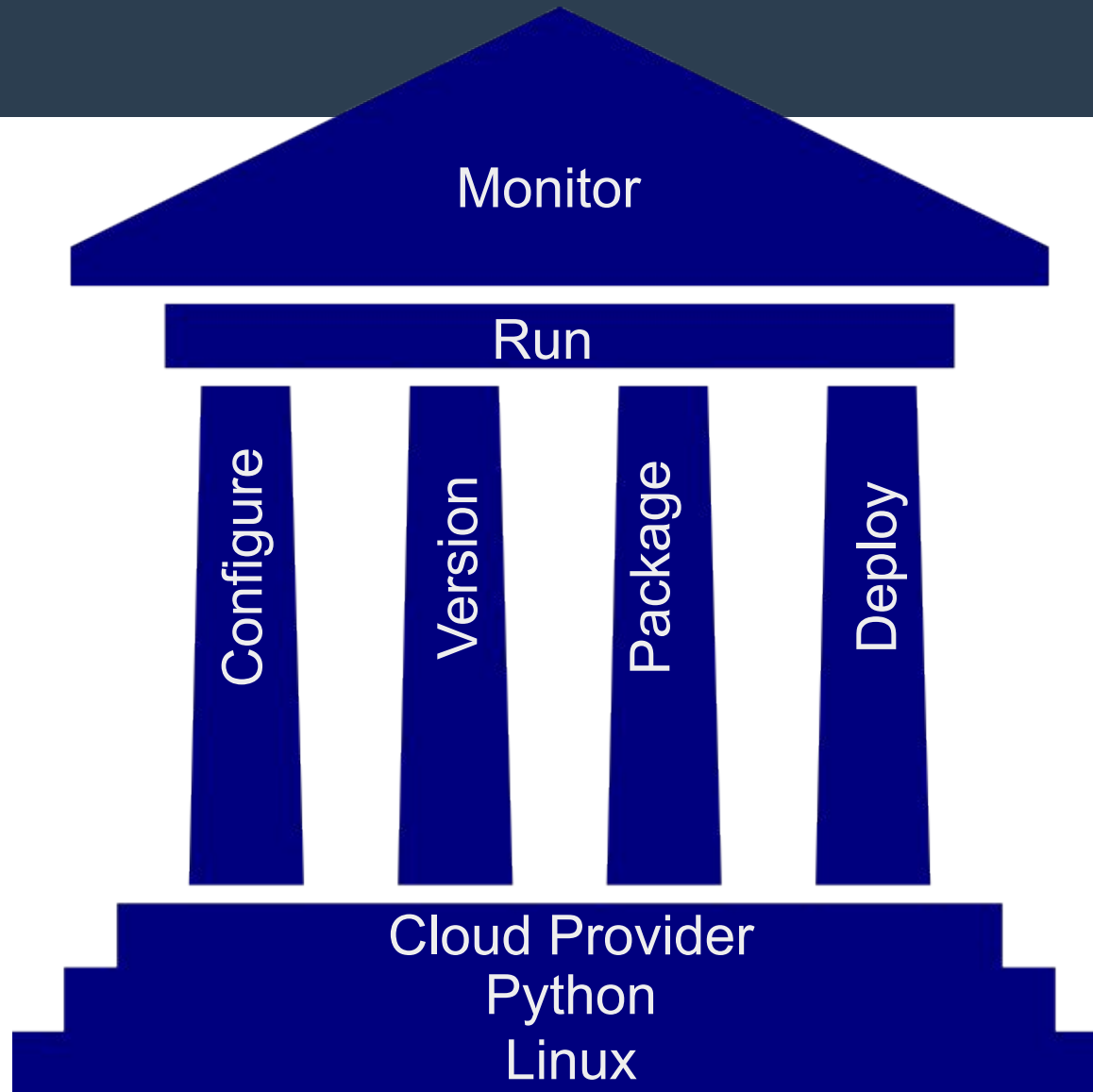
Enrique Verdes
Prof. Adjunto Esc. De Tecnología
Universidad ORT Uruguay



The road ahead

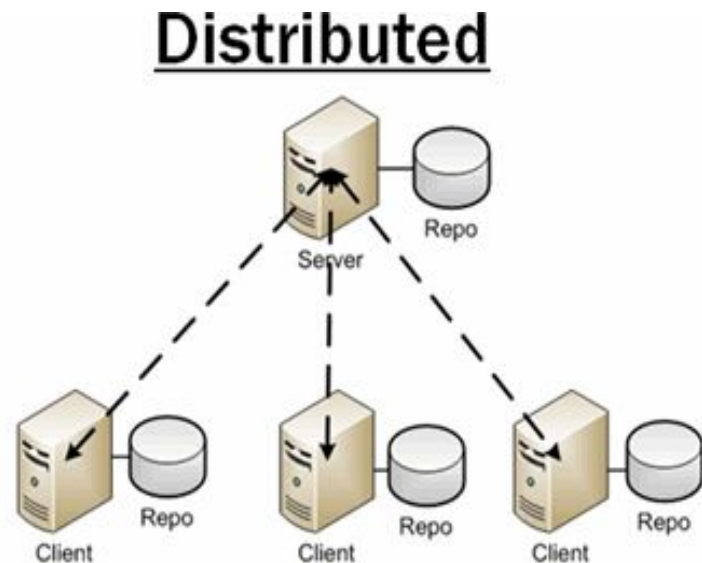
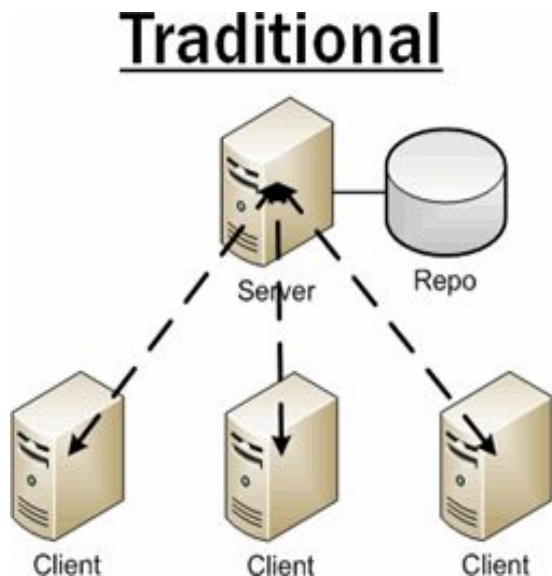


Why git?

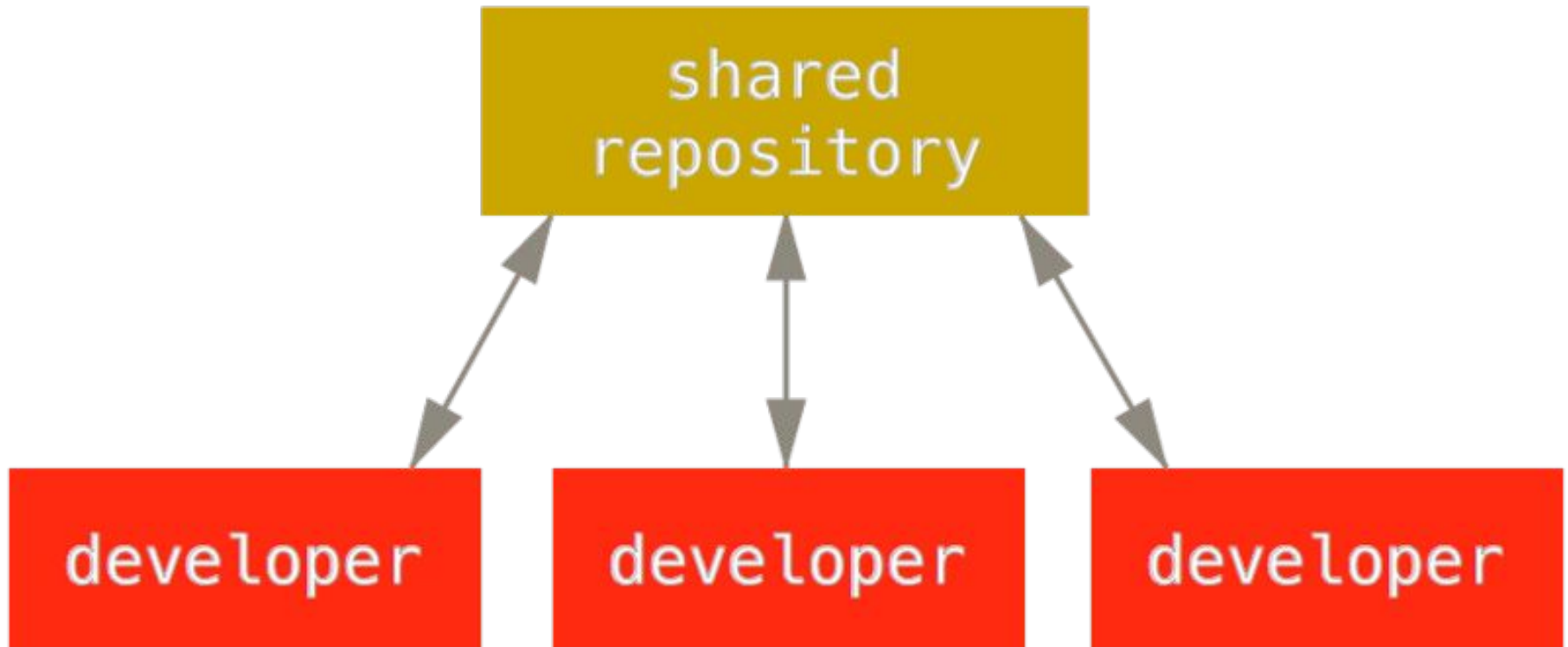


¿What is GIT?

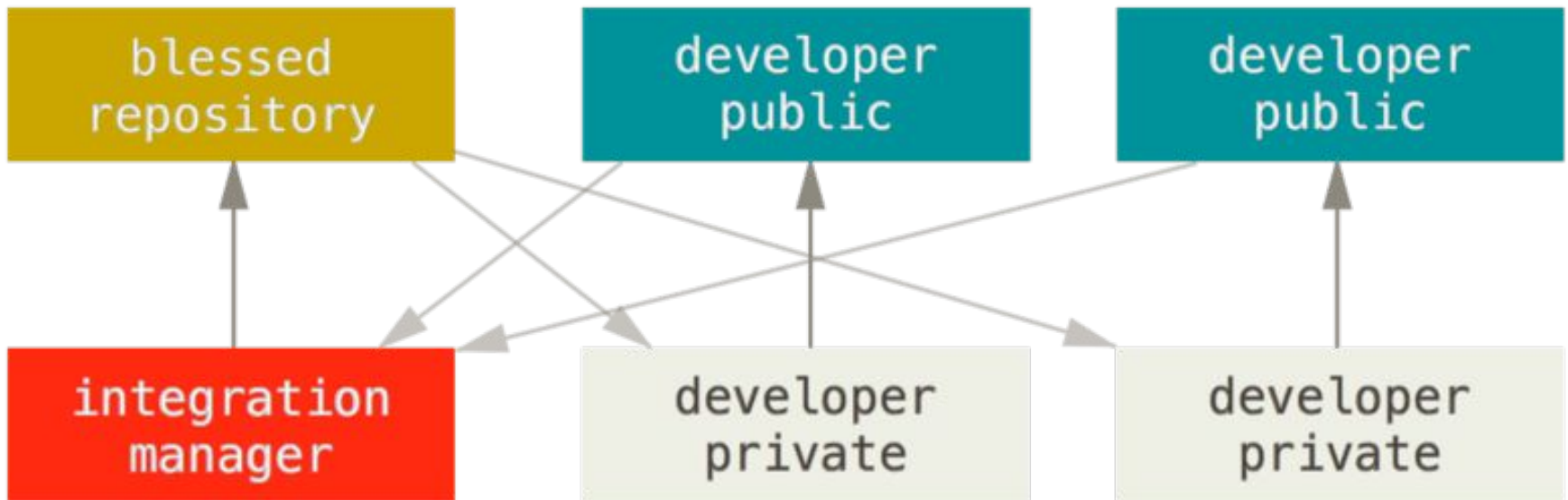
- Git is a free and open source **distributed version control system**, developed by Linus Torvalds, designed to handle everything from small to very large projects with speed and efficiency.



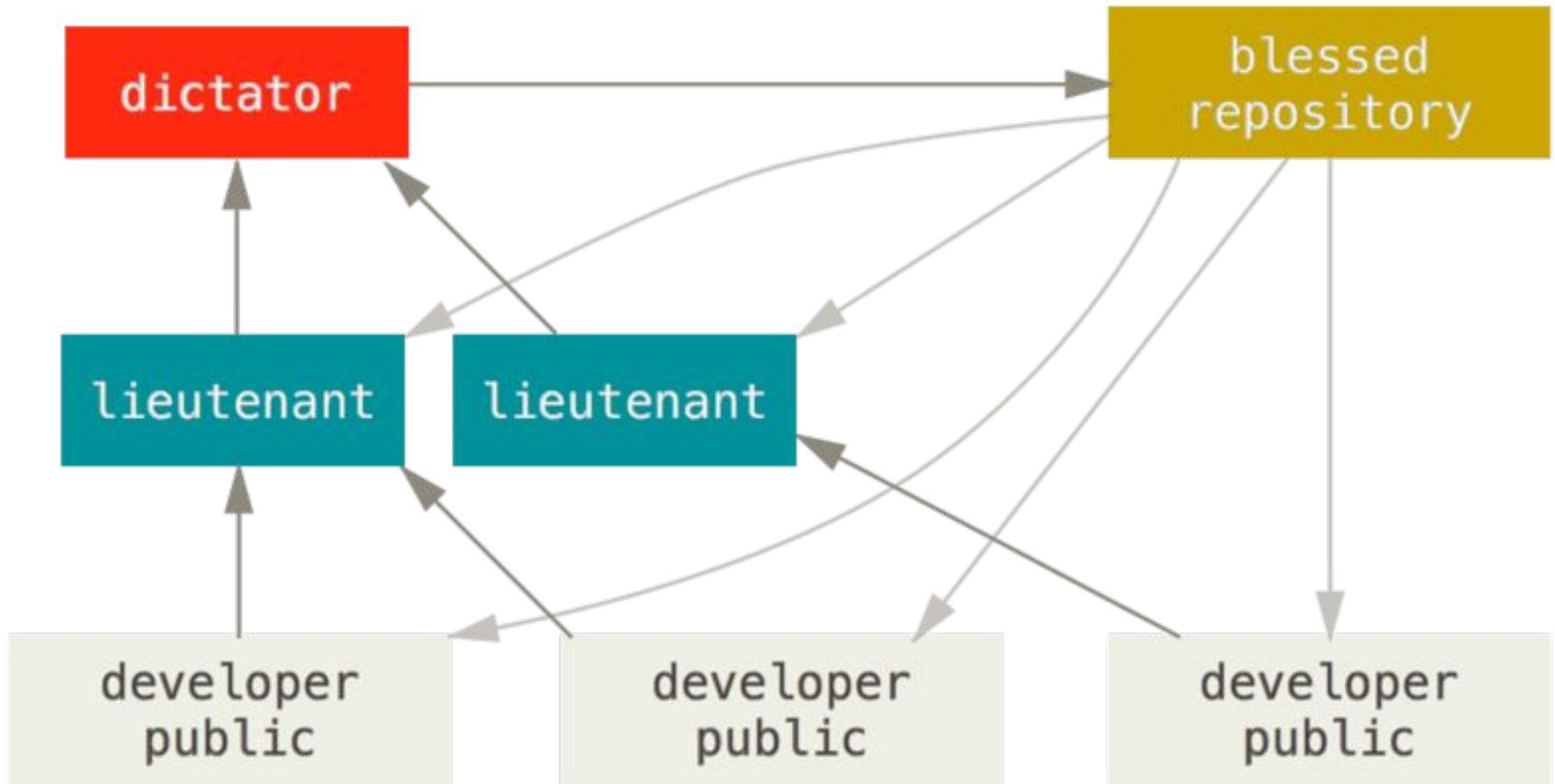
GIT Workflows I



GIT Workflows II: Integration manager



GIT Workflows III: Dictador-teniente



Key concepts & terms

SERVER

**REMOTE
REPOSITORY**

DEV ENVIRONMENT

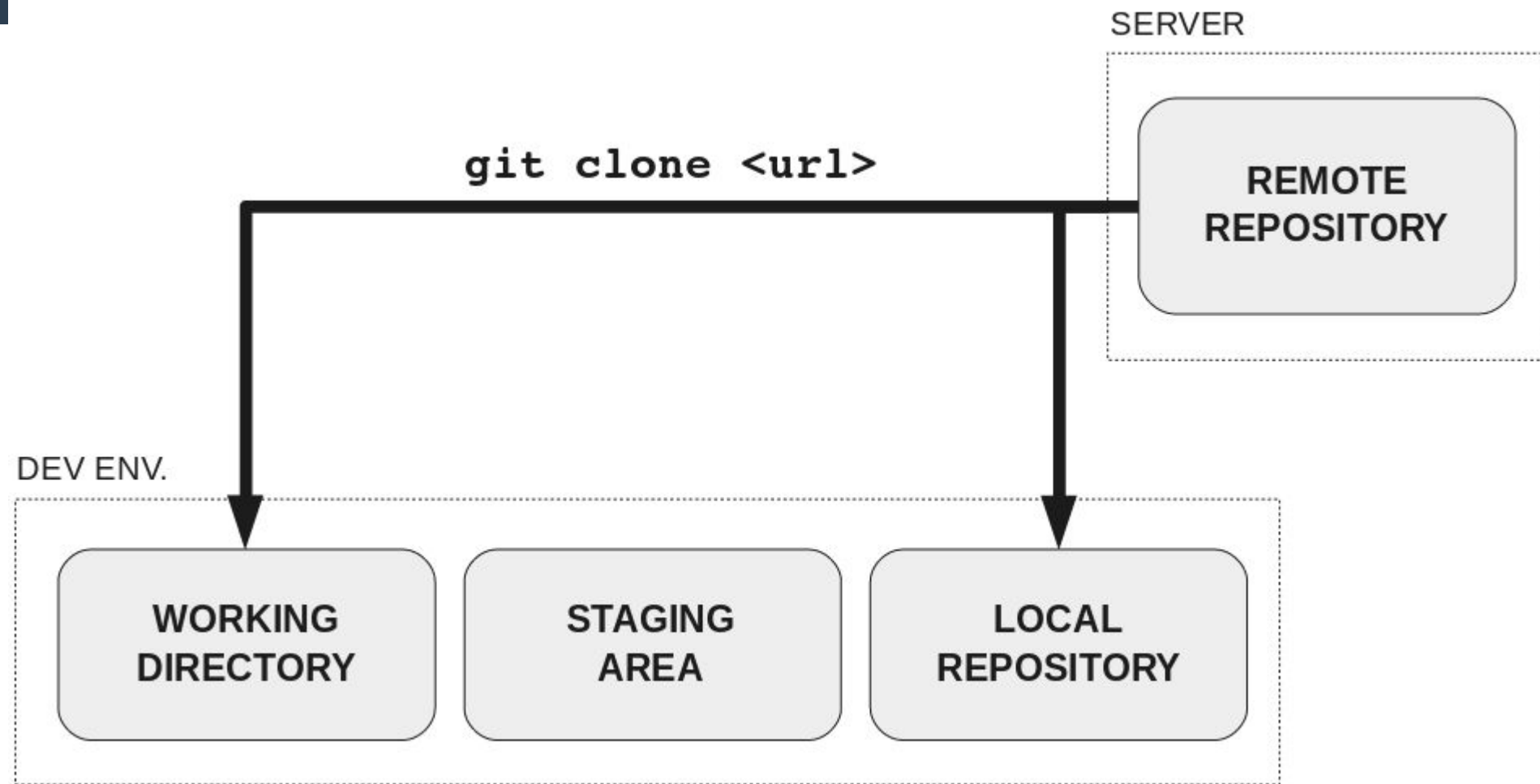
**WORKING
DIRECTORY**

**STAGING
AREA**

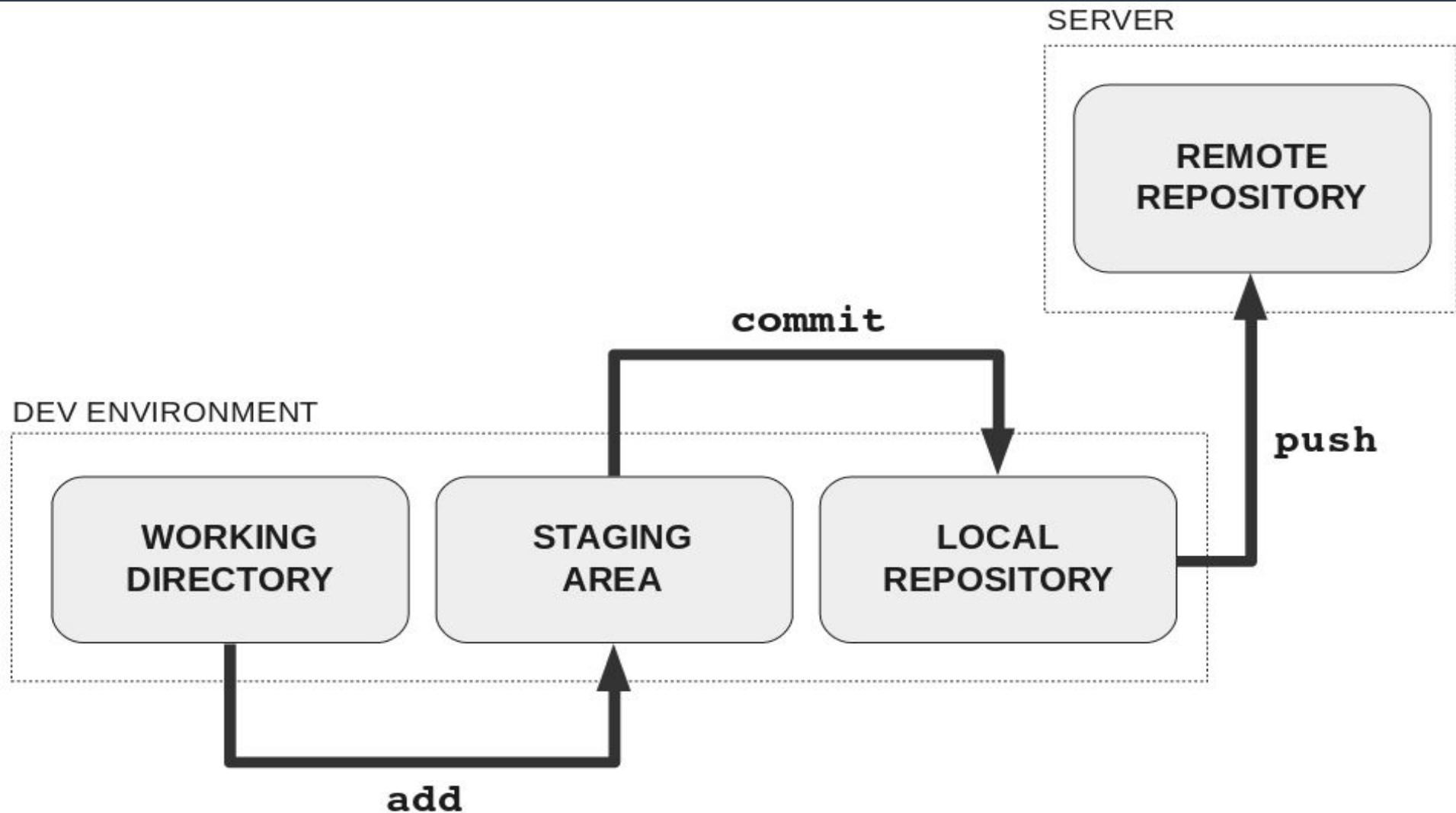
**LOCAL
REPOSITORY**



Start: Cloning a repo

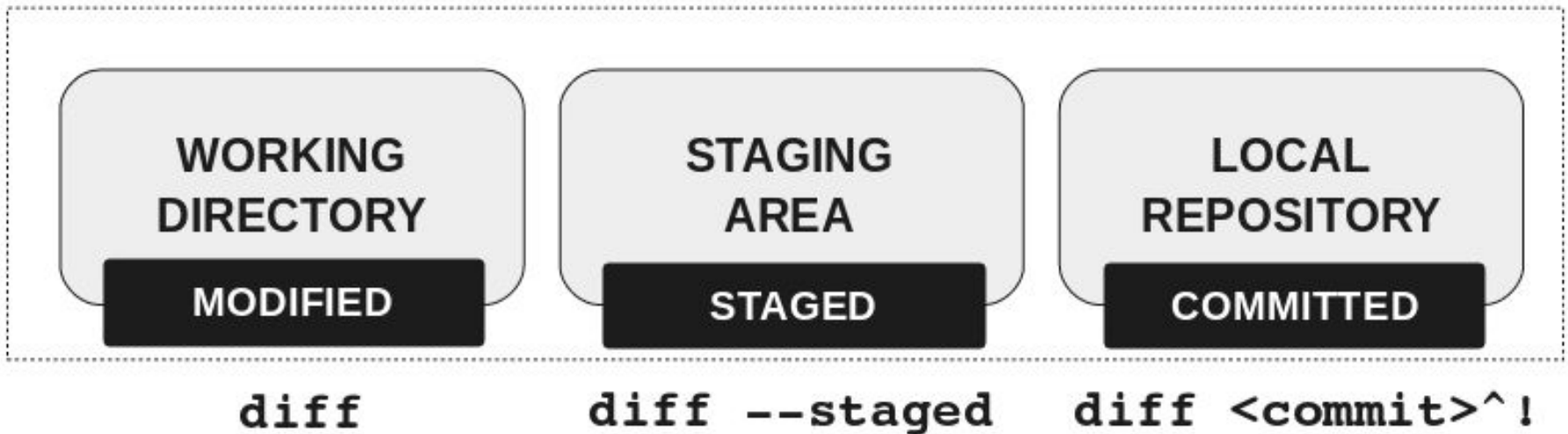


Make changes.

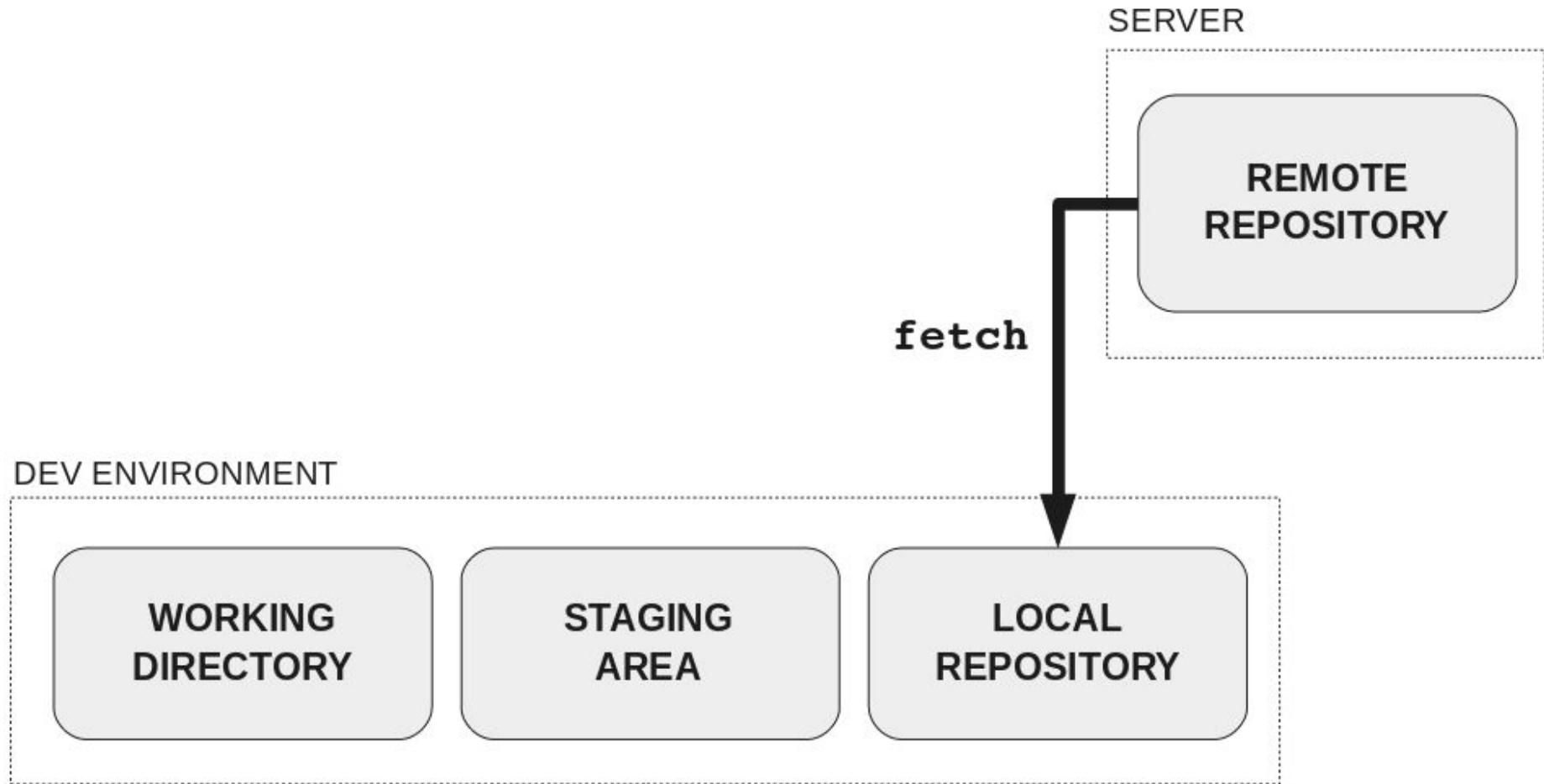


Review changes.

DEV ENVIRONMENT

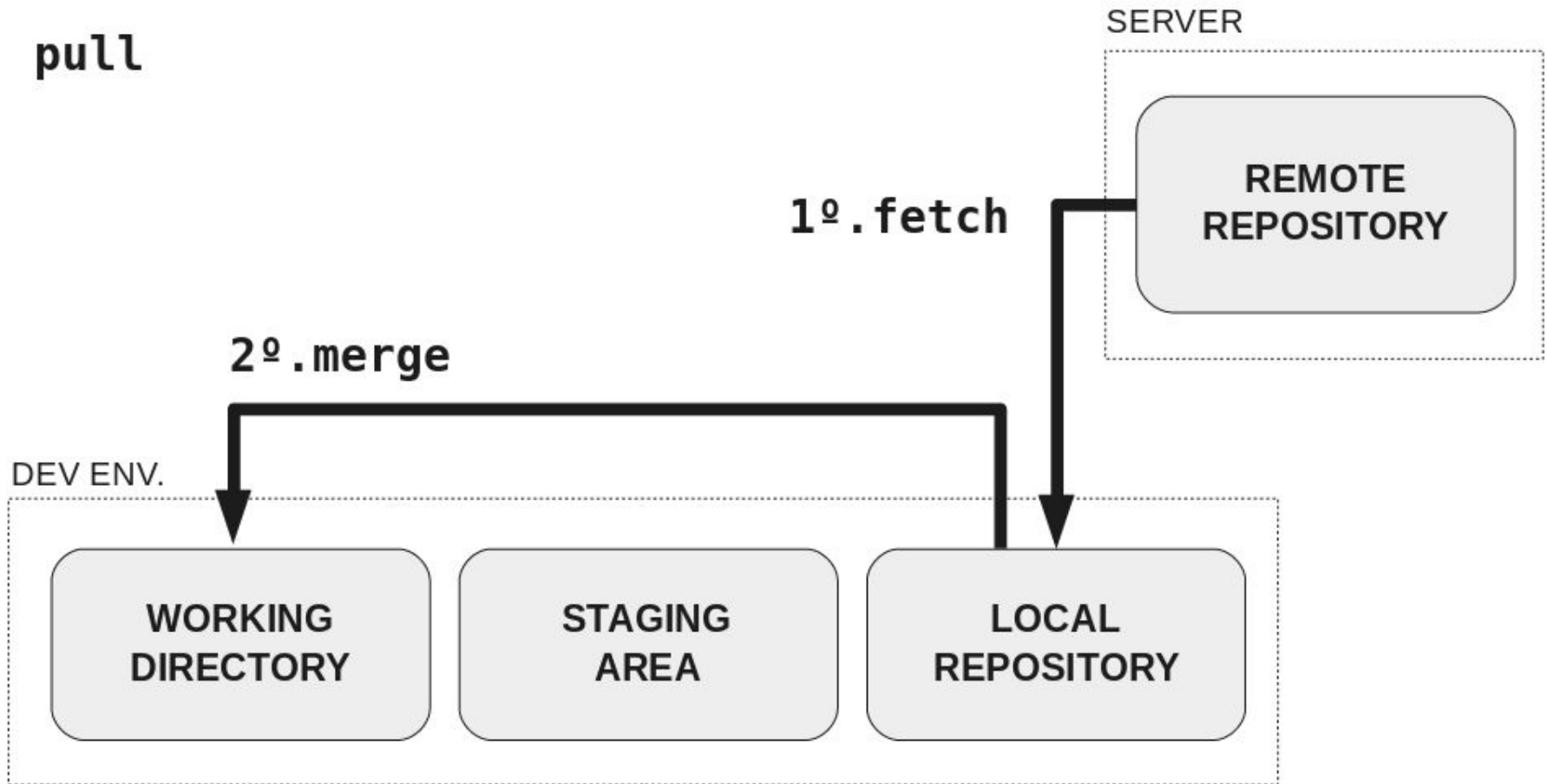


Actualizar repositorio local



Update local repo.

pull



It's showtime Part I!



A word about READMEs

- README.md is a text file introducing and explaining a project.
- Why? Not even you can read your mind.
- When? At the start of the project.
- Where? At the top level directory of the project.
- How? With any text editor and in any language, although Markdown is preferred.
- Ref: <https://www.makeareadme.com/>



Commits

- **Separate subject from body with a blank line**
- **Limit the subject line to 50 characters**
- **Capitalize the subject line**
- **Do not end the subject line with a period**
- **Use the imperative mood in the subject line**
- **Wrap the body at 72 characters**
- **Use the body to explain what and why vs. how**
- **See the next slide for an example**



Commit example

Summarize changes in around 50 characters or less

More detailed explanatory text, if necessary. Wrap it to about 72 characters or so. In some contexts, the first line is treated as the subject of the commit and the rest of the text as the body. The blank line separating the summary from the body is critical (unless you omit the body entirely); various tools like ``log``, ``shortlog`` and ``rebase`` can get confused if you run the two together.

Explain the problem that this commit is solving. Focus on why you are making this change as opposed to how (the code explains that). Are there side effects or other unintuitive consequences of this change? Here's the place to explain them.

Further paragraphs come after blank lines.

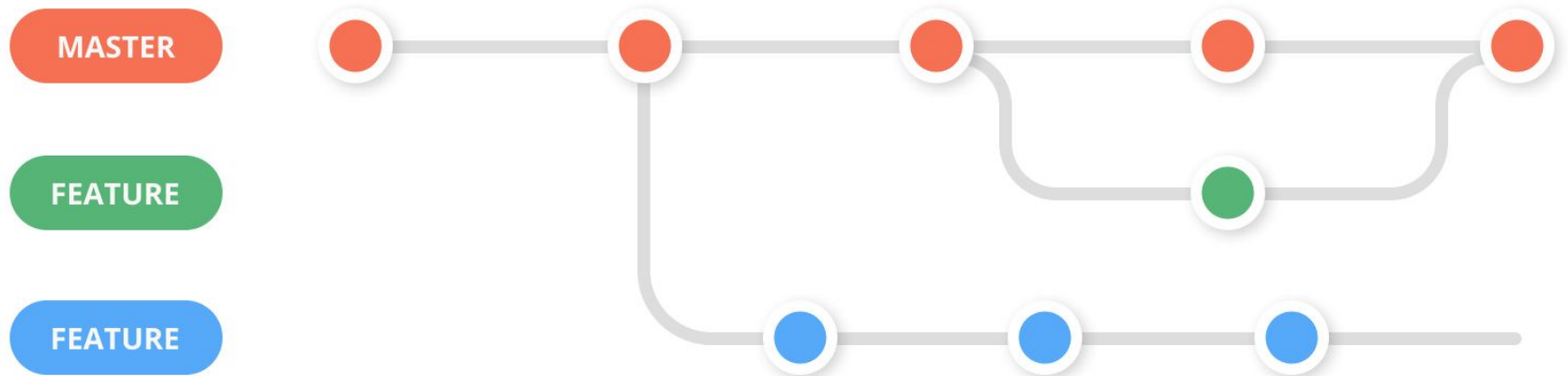
- Bullet points are okay, too
- Typically a hyphen or asterisk is used for the bullet, preceded by a single space, with blank lines in between, but conventions vary here



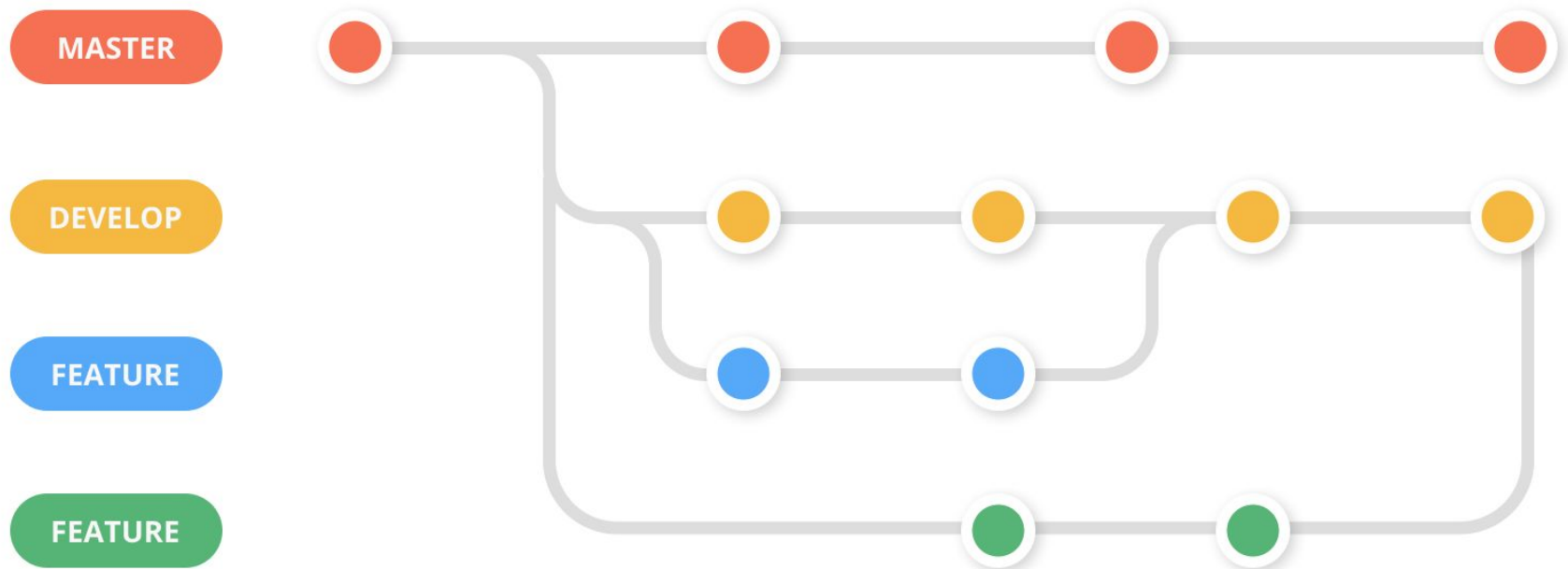
Basic git workflow



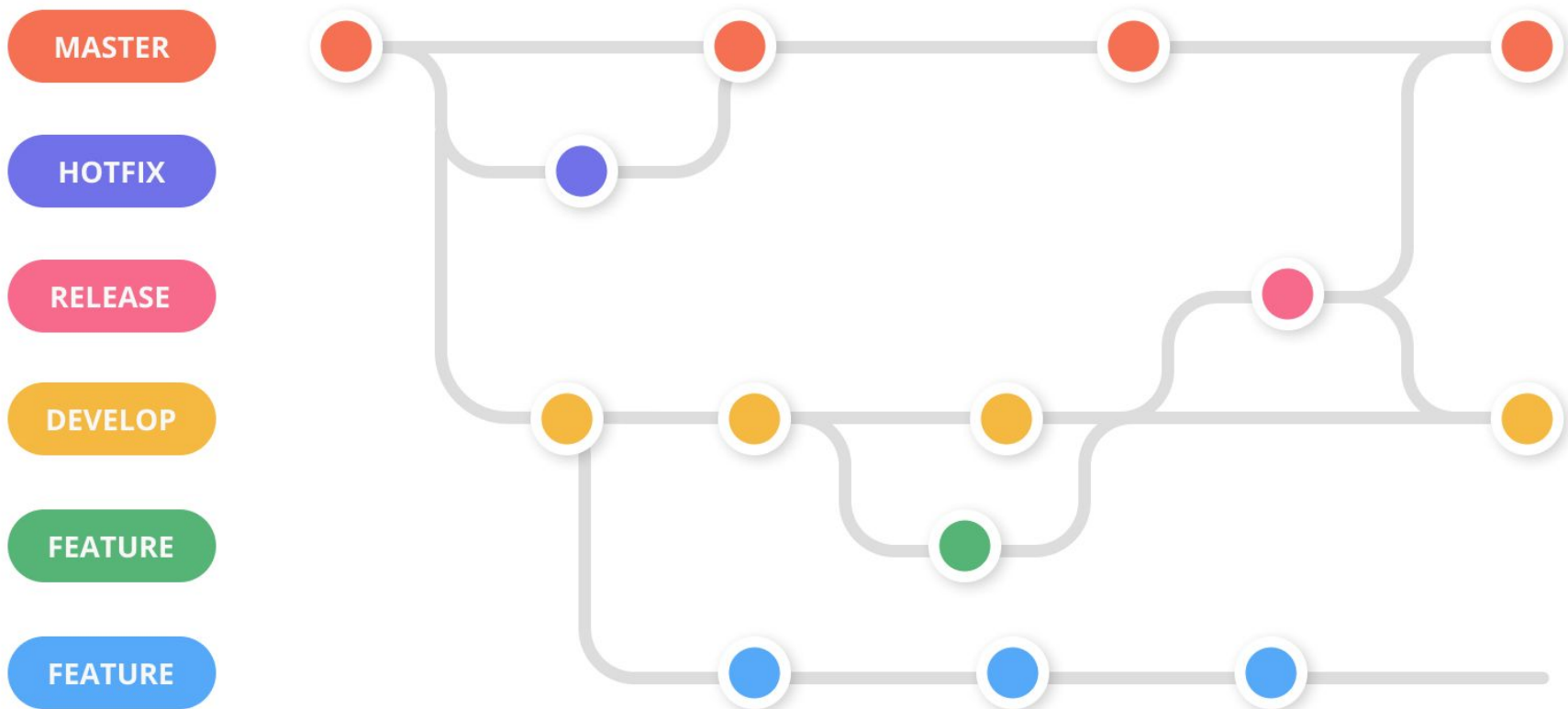
Basic git workflow with feature



Basic git workflow with feature and develop



Gitflow



It's showtime Part II!



hands
on

A graphic featuring the words "hands" and "on" in a black serif font. The word "hands" is positioned above "on". Two large, stylized blue handprints are placed behind the text, one on the left and one on the right, with smaller blue ink splatters around them.

¿Preguntas?

