

# Just Git It

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# Outline

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- Git vs. Github
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- Practice: existing example repo
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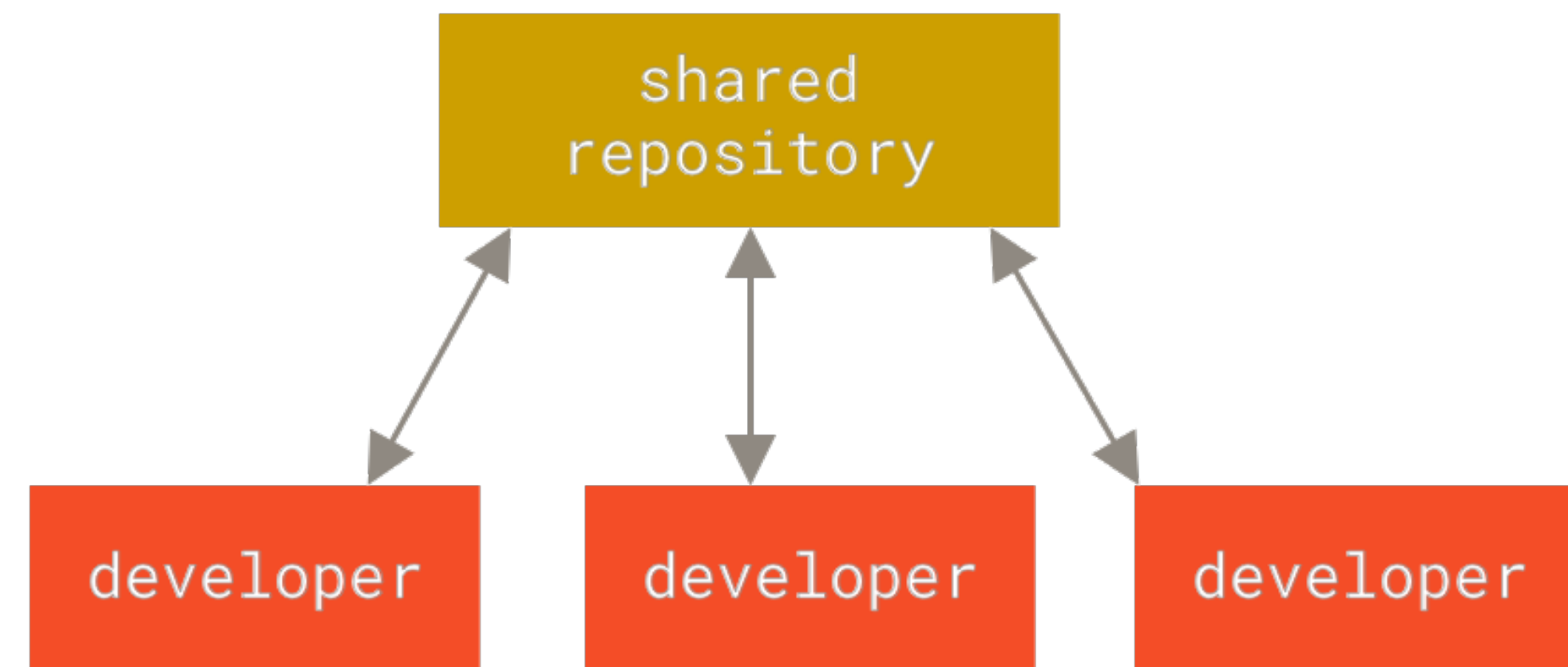
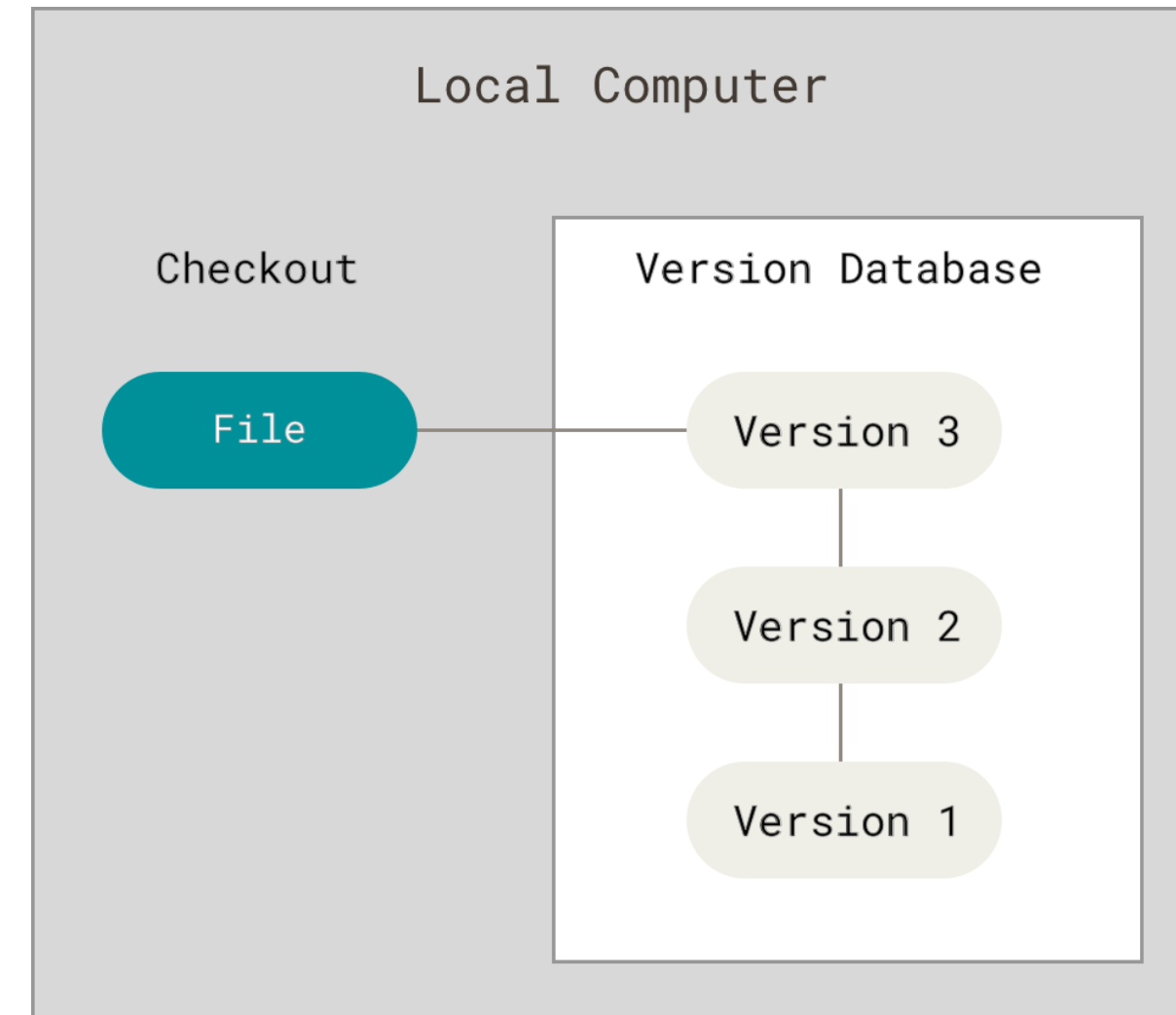


# Disclaimer

- `if (this!=tutorial){_vracEmployee || _hciStudent};`
- `else {GoogleIt || YouTubeIt};`
- `git help all`
- “Textbook: <https://git-scm.com/book/en/v2/Getting-Started-About-Version-Control>
- Interactive tutorial: <https://www.w3schools.com/git/default.asp?remote=github>

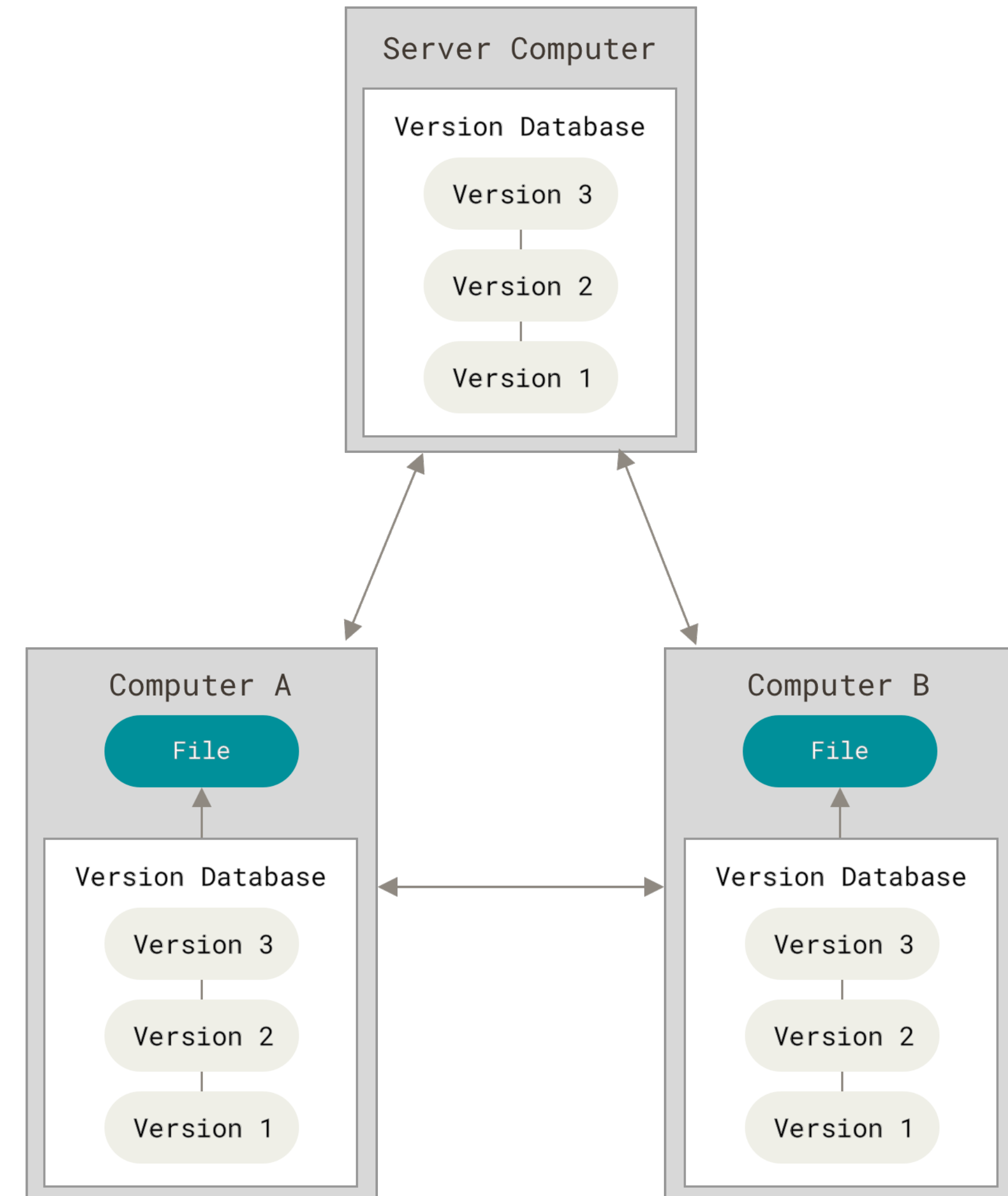
# Version Control Systems (VCS)

- Local
- Centralized
- Distributed



# DCVS Benefits

- Collaboration
- Fast even if big project
- Backups
- Skillset & Content Agnostic
- 2002 Linux Kernel



# Repositories “repo”

- “Folder”
- Server (not always)
- “Traffic Cop”

```
[arenner][keymaker][~/home/vr/git_repositories/VAMVIS] ls -la
total 80
drwxrws---. 7 root watch 4096 Oct 25 2016 .
drwxrwxr-x. 91 root vrac 4096 Oct 5 2020 ..
drwxrws---. 2 root vrac 4096 Oct 25 2016 branches
-rw-rwS---. 1 root vrac 126 Oct 25 2016 config
-rw-rwS---. 1 root vrac 54 Oct 25 2016 description
-rw-rwS---. 1 root vrac 23 Oct 25 2016 HEAD
drwxrws---. 2 root vrac 4096 Oct 25 2016 hooks
drwxrws---. 2 root vrac 4096 Oct 25 2016 info
drwxrws---. 260 root vrac 4096 May 14 2017 objects
drwxrws---. 4 root vrac 4096 Oct 25 2016 refs
[arenner][keymaker][~/home/vr/git_repositories/VAMVIS] █
```

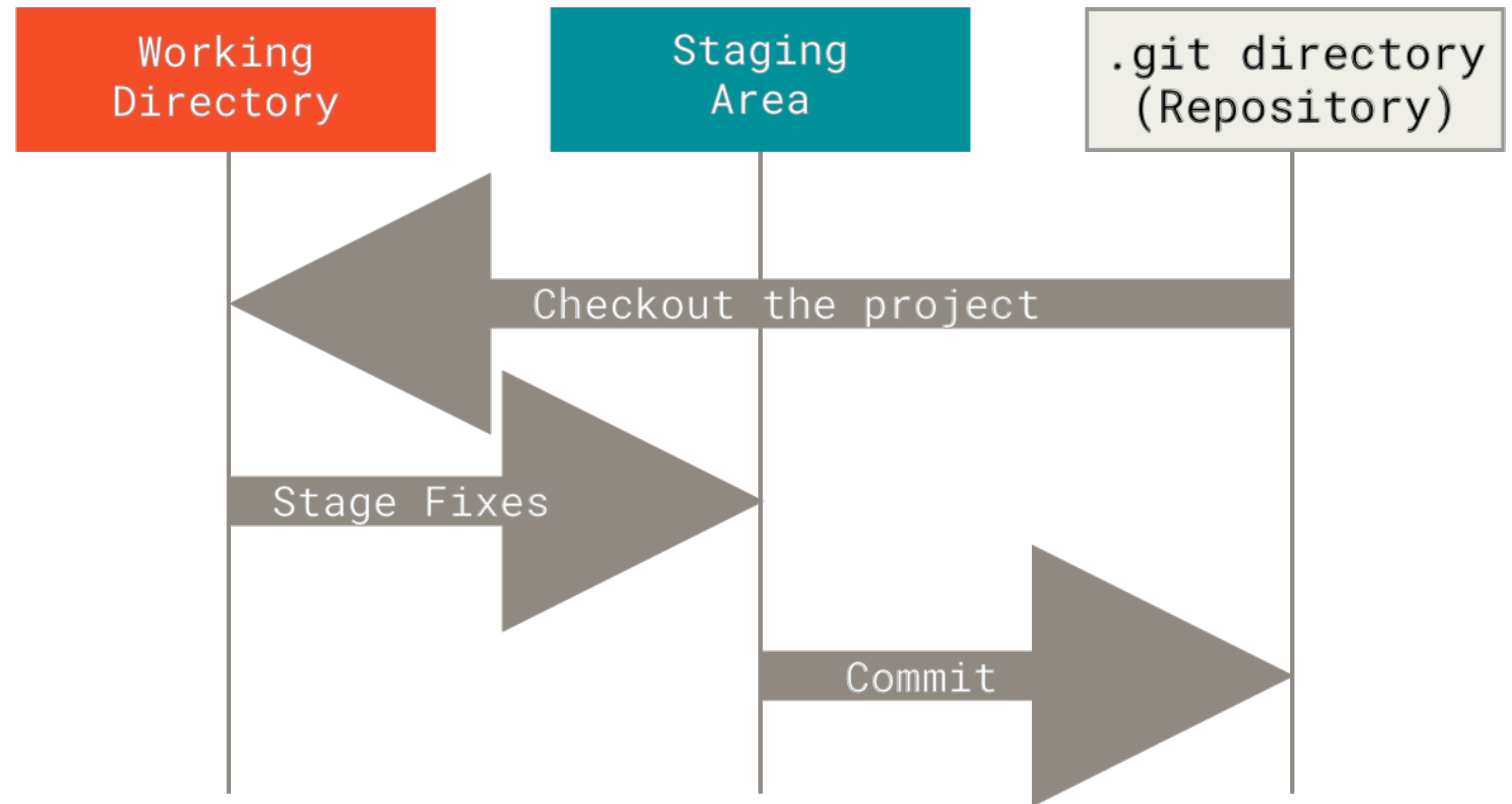
# Git across the street

- More than a folder
- Better than version history
- Manages “traffic”
- More than differences checker



# 3 States

- Modified
- Staged
- Committed





# Git Commands

git _____	Options	Text (no spaces)
Clone		
Checkout		
Branch		
Fetch		
Status		
Merge		
Pull		
Commit		
Push		
Add		



# Demo

# Git vs. Github

- Git is a command/tool/magician
- Github is a website
- Github is a server
- Github typically has repos



# Create Github Account and Install GUI

- <https://github.com>
- <https://www.sourcetreeapp.com>

# Practice: existing example repo

- <https://github.com/alexraymondrenner/vracreu2022>

# Practice: create repo and collaborate

- [https://www.w3schools.com/git/git\\_remote\\_getstarted.asp?remote=github](https://www.w3schools.com/git/git_remote_getstarted.asp?remote=github)