

Who are you calling (a) Git?

Course Slides

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Git



<https://xkcd.com/1597/>

Git

Overview

- Version Control System
- Open Source
- Collaborative Work
- Git vs GitHub / GitLab

Versioning Control Strategies

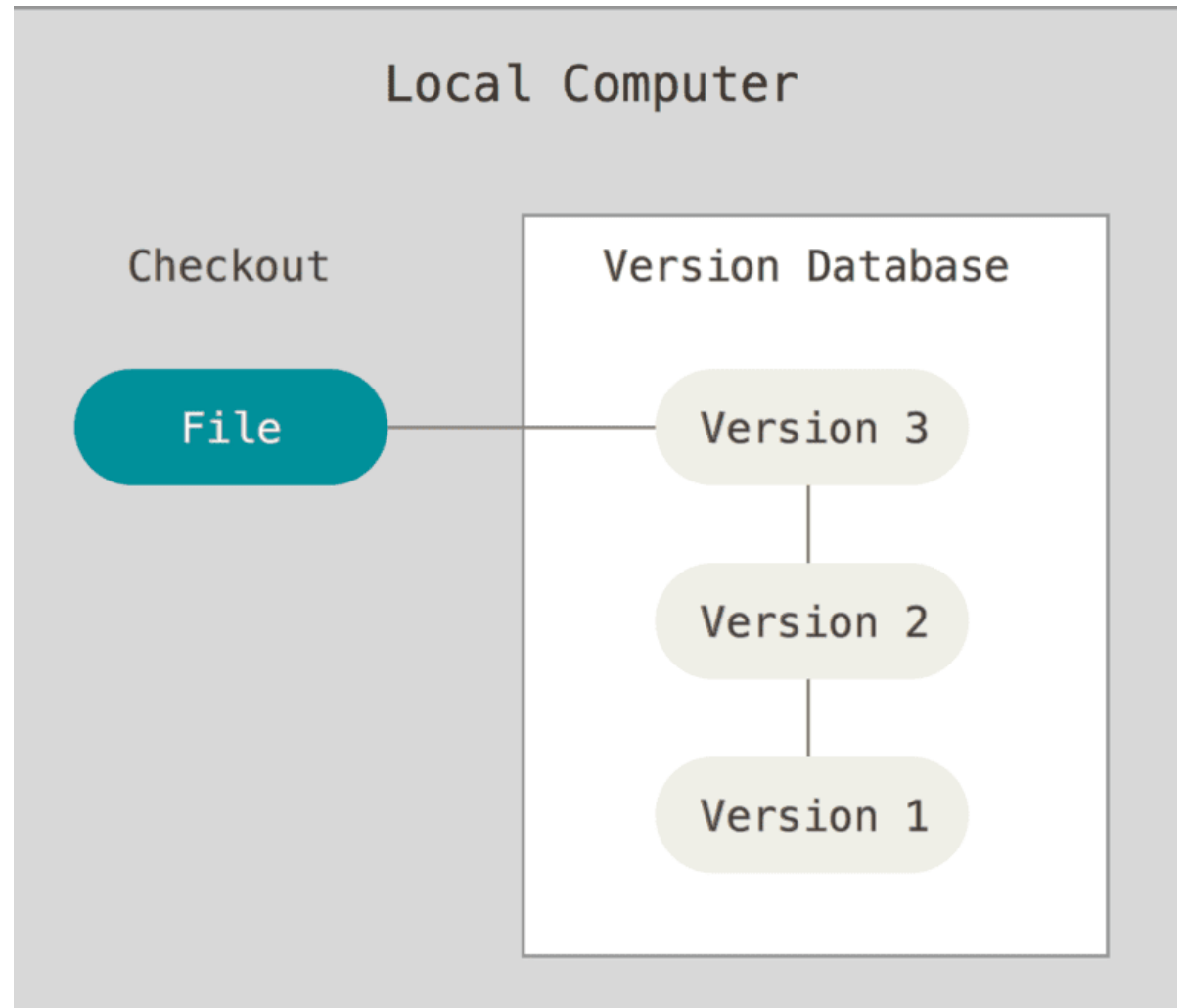


Figure taken from Chacon, Scott and Ben Straub. "Pro Git." Apress (2014).

Versioning Control Strategies

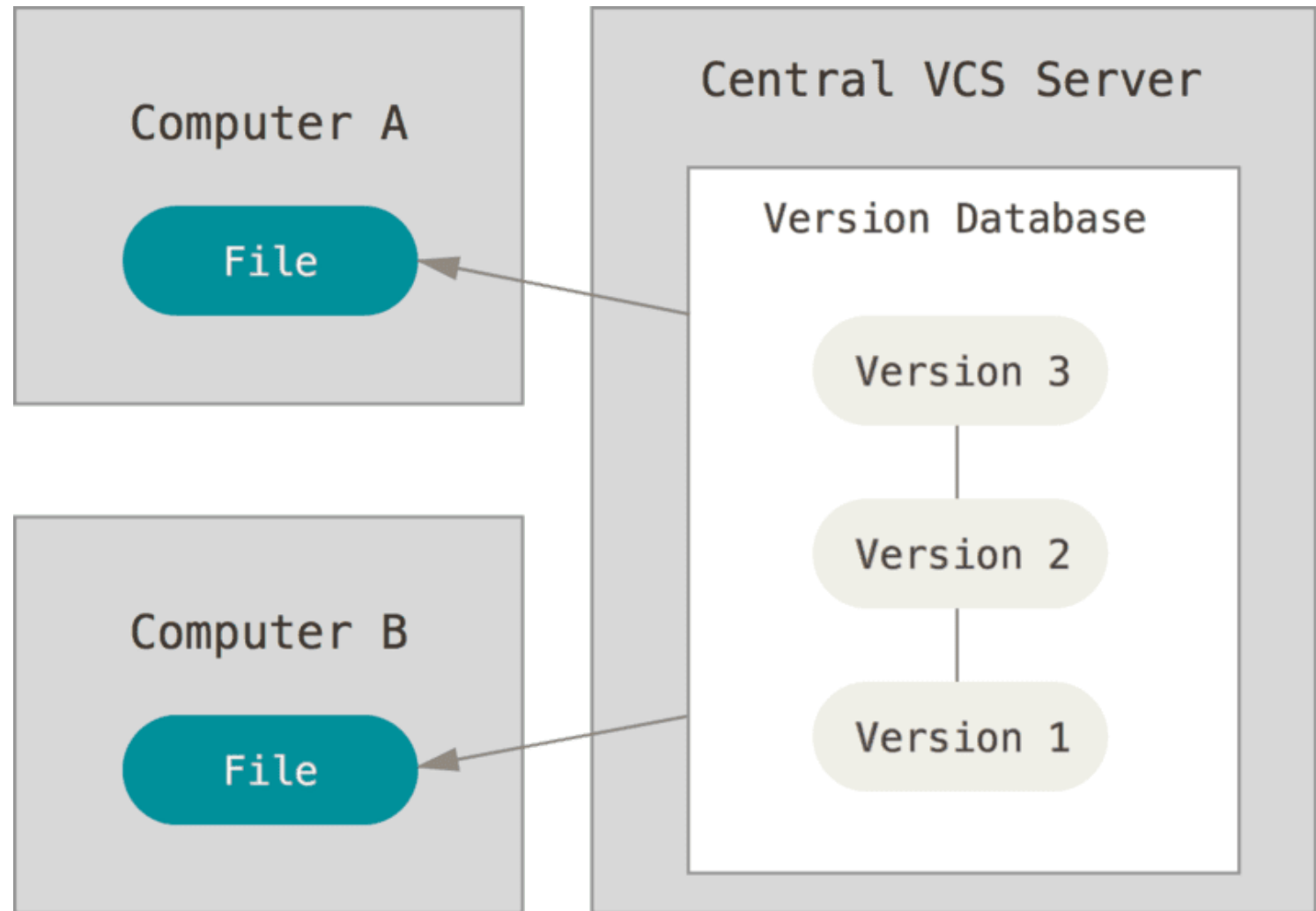


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Versioning Control Strategies

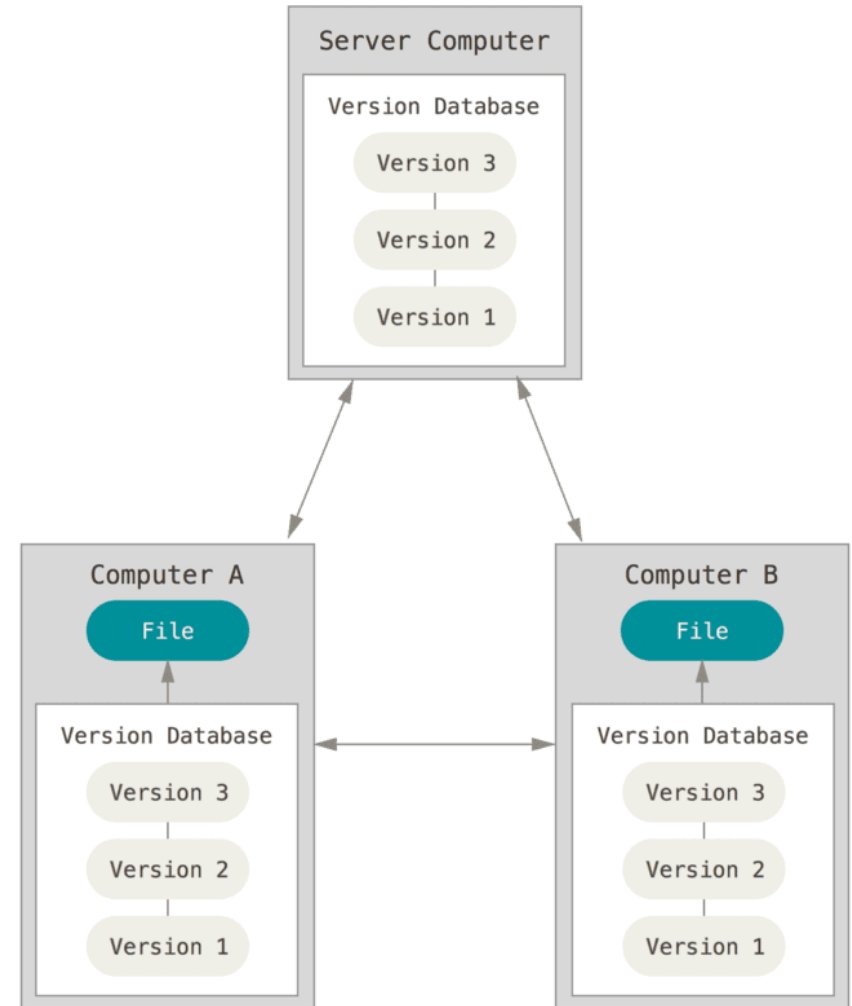


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Git

How Git records changes



<https://unsplash.com/@bamin>

How Changes Are Recorded

Strategy 1: Source + Changes (Delta)

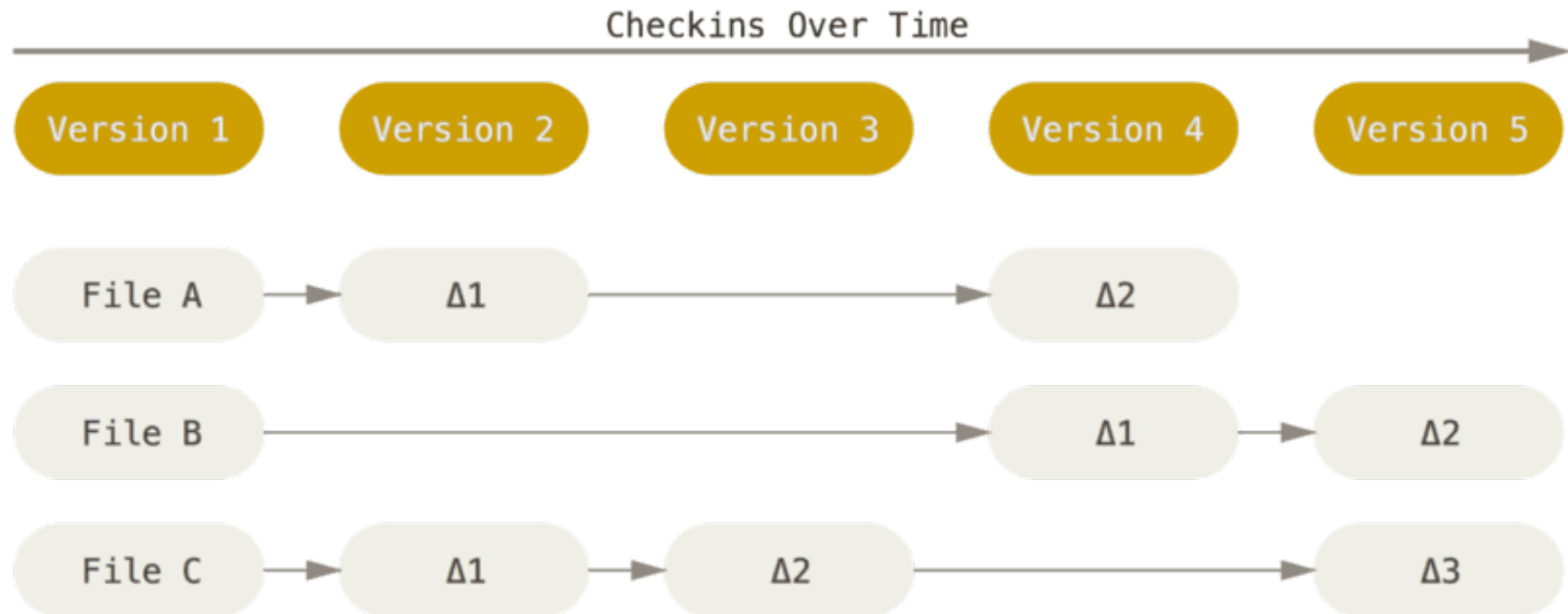


Figure taken from Chacon, Scott and Ben Straub. "Pro Git." Apress (2014).

How Changes Are Recorded

Strategy 2: Snapshots and Links

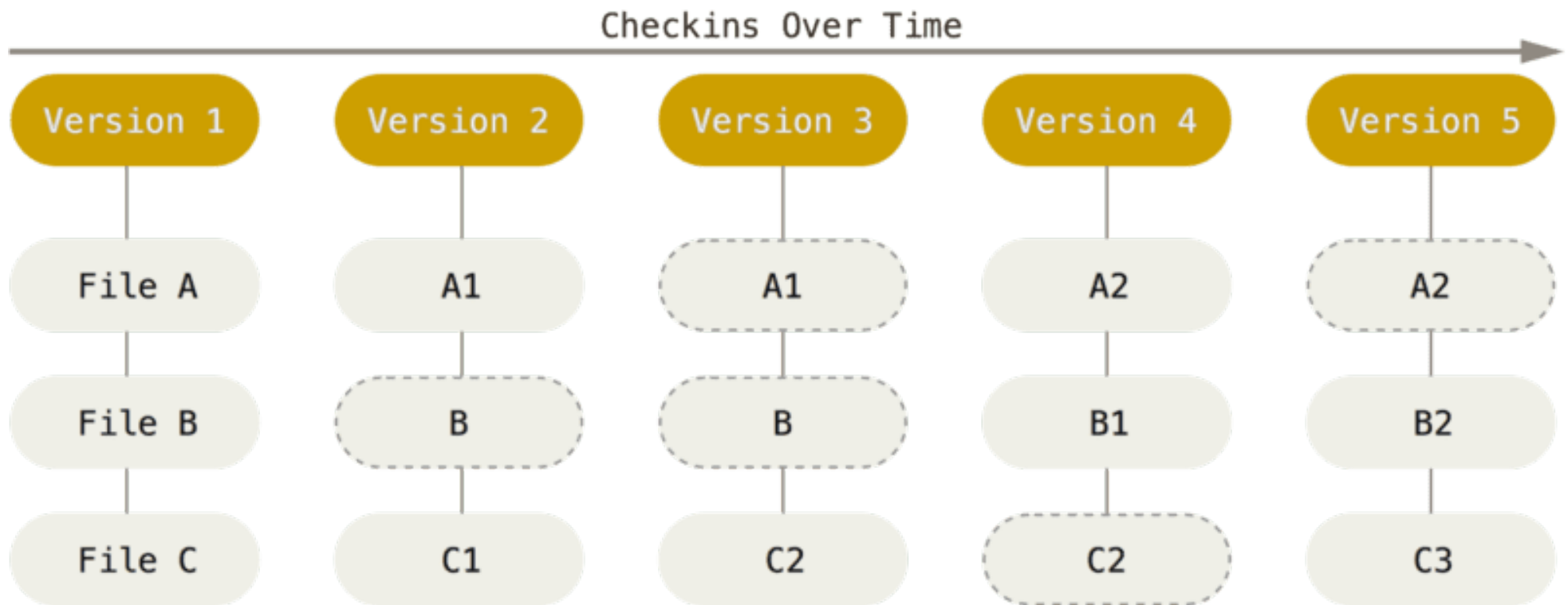


Figure taken from Chacon, Scott and Ben Straub. "Pro Git." Apress (2014).

Different Working Areas

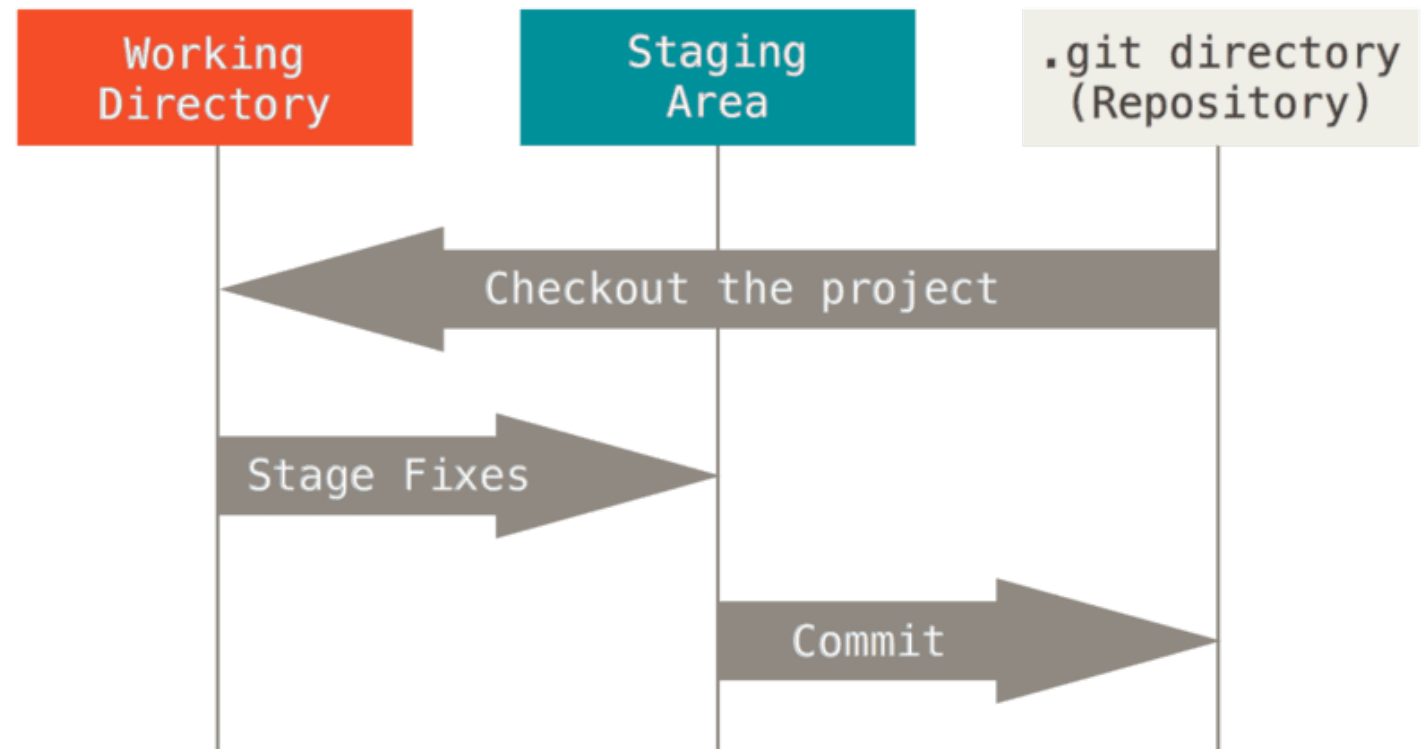


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Different Working Areas

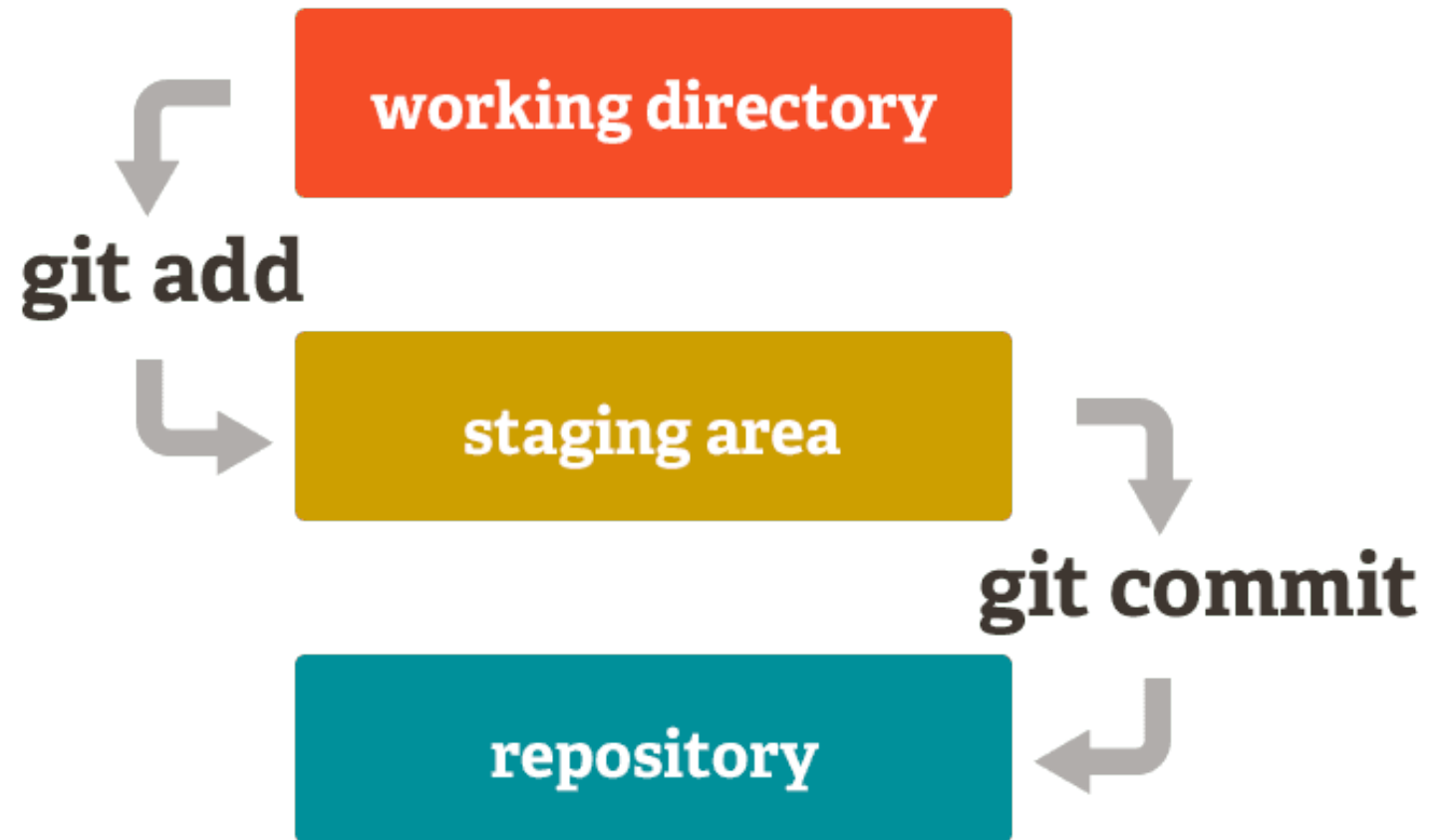


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Different Working Areas

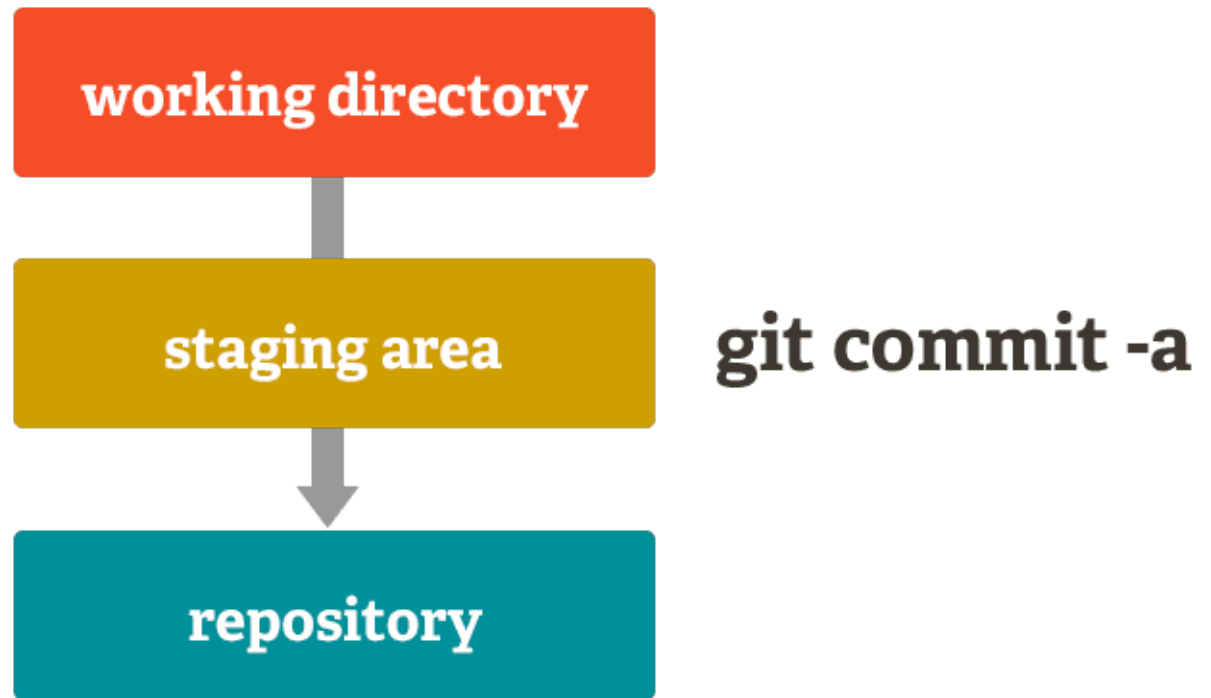
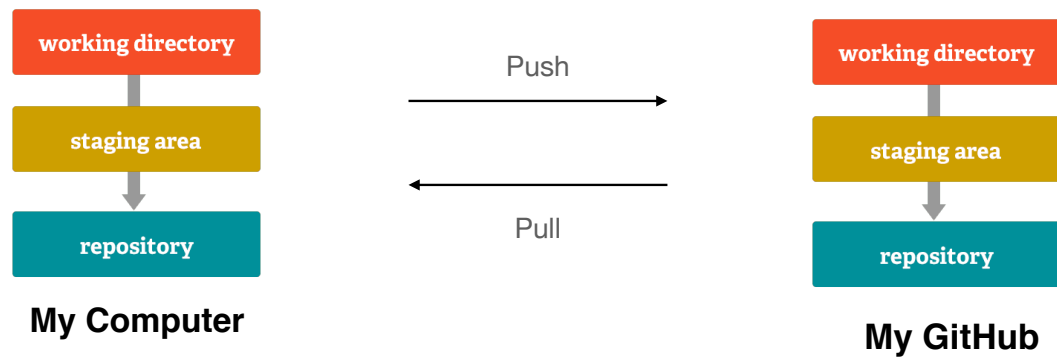


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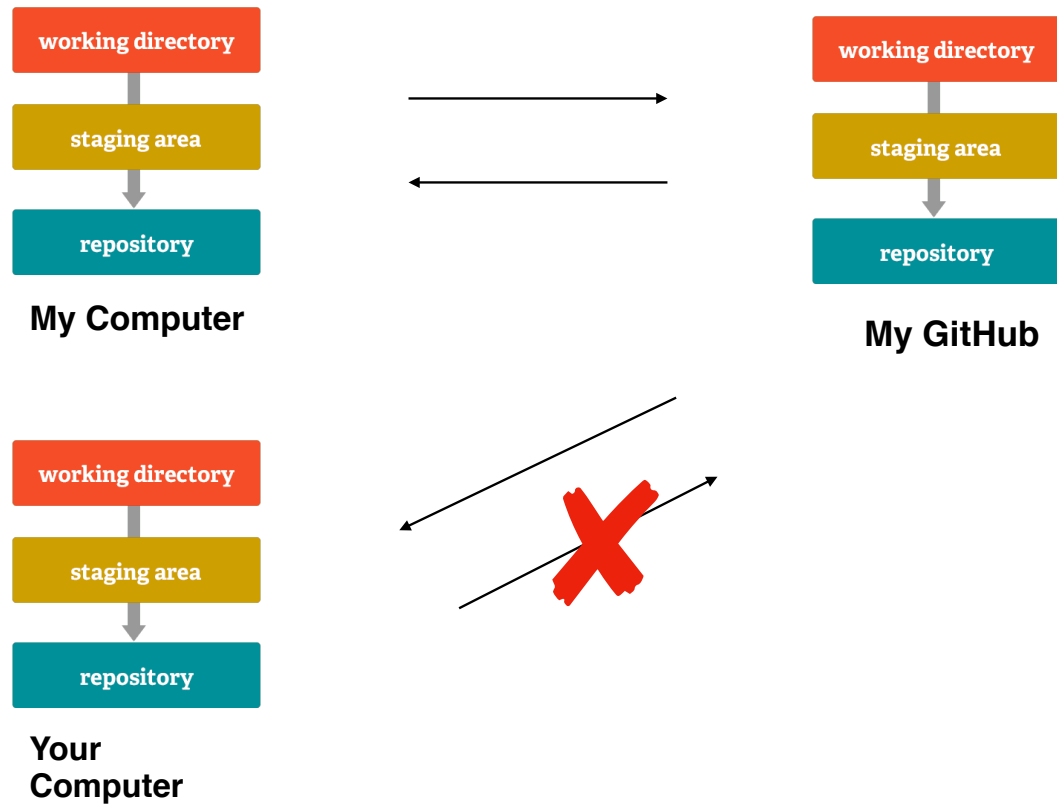
Remote Repositories

The distributed part!



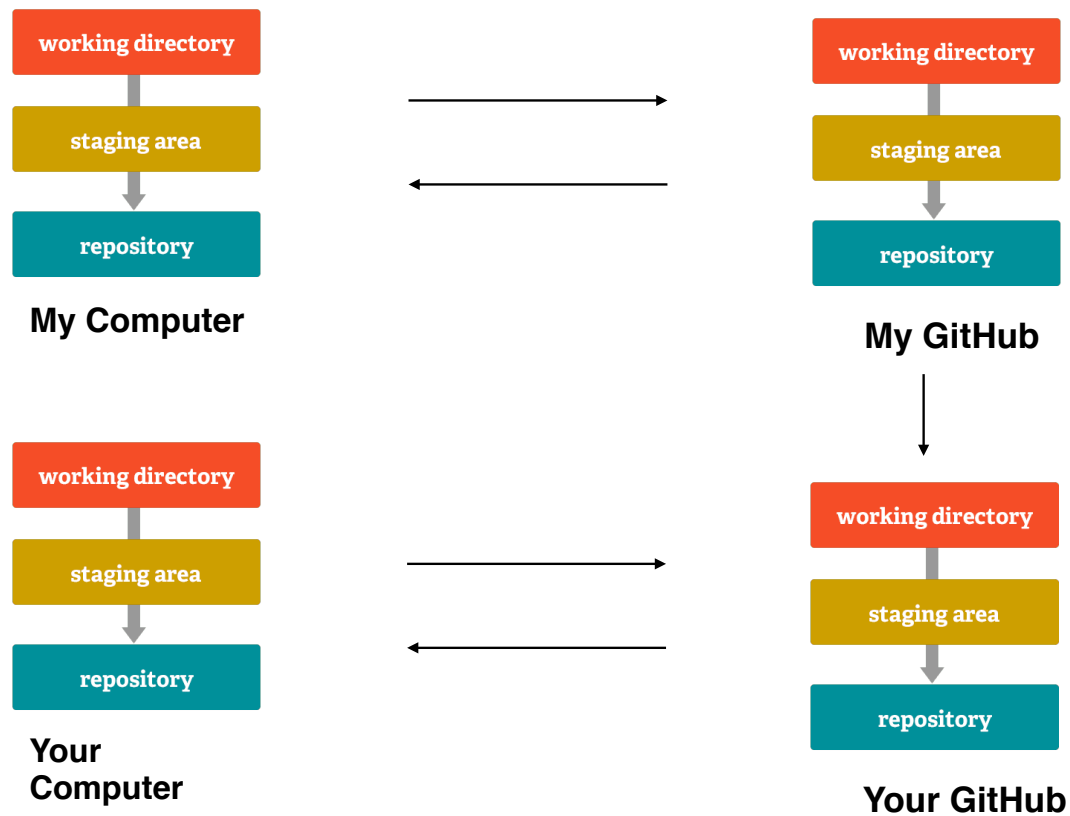
Remote Repositories

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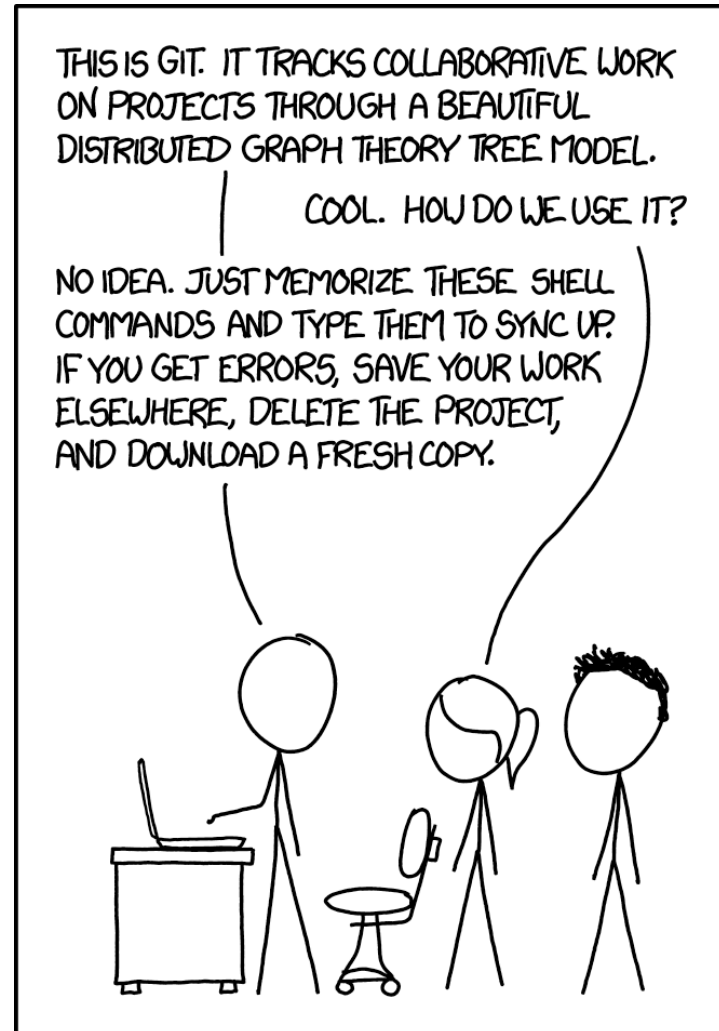


Remote Repositories

The distributed part!



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Exercises

Understanding Git

- Go to <https://learngitbranching.js.org> and do
 1. The “Introduction Sequence” in the main tab
 2. The “Remote Push & Pull -- Git Remotes!” 1-8 in the remote tab
 3. Do the <https://commonmark.org/help/tutorial/index.html> Markdown tutorial



https://unsplash.com/@k8_iv

Thank you!

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