2018-2

DATABASE ADMINISTRATION ADVANCED

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AGENDA

⊙ CVS - Control version system

⊙ Github vs Gitlab

⊙ Demo

⊙ Practice

CVS - Control version system

CVS - Git https://git-scm.com/

- Management of changes
- Track of changes
- Open Source
- Coordinate work
- Launched April 7th 2005
- C, Shell, Perl, TCL, Python
- Global Information Tracker

Latest source Release
2.18.0
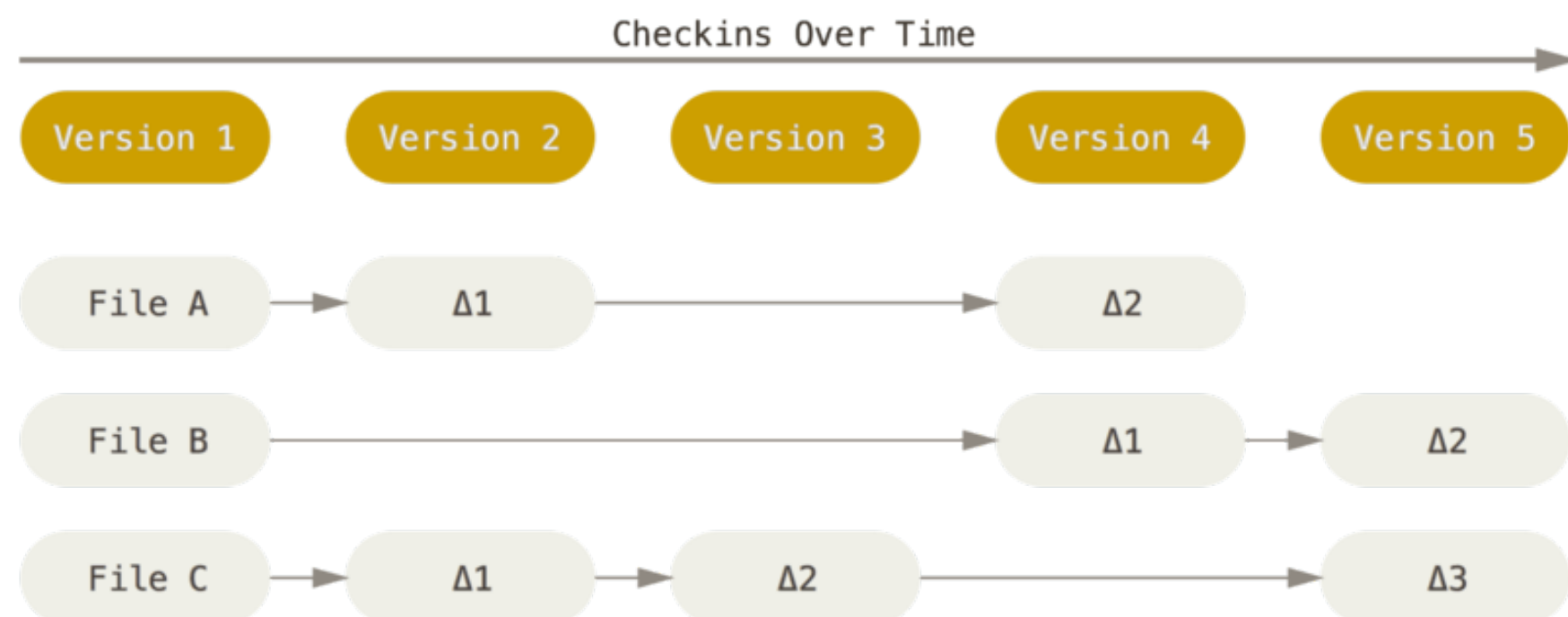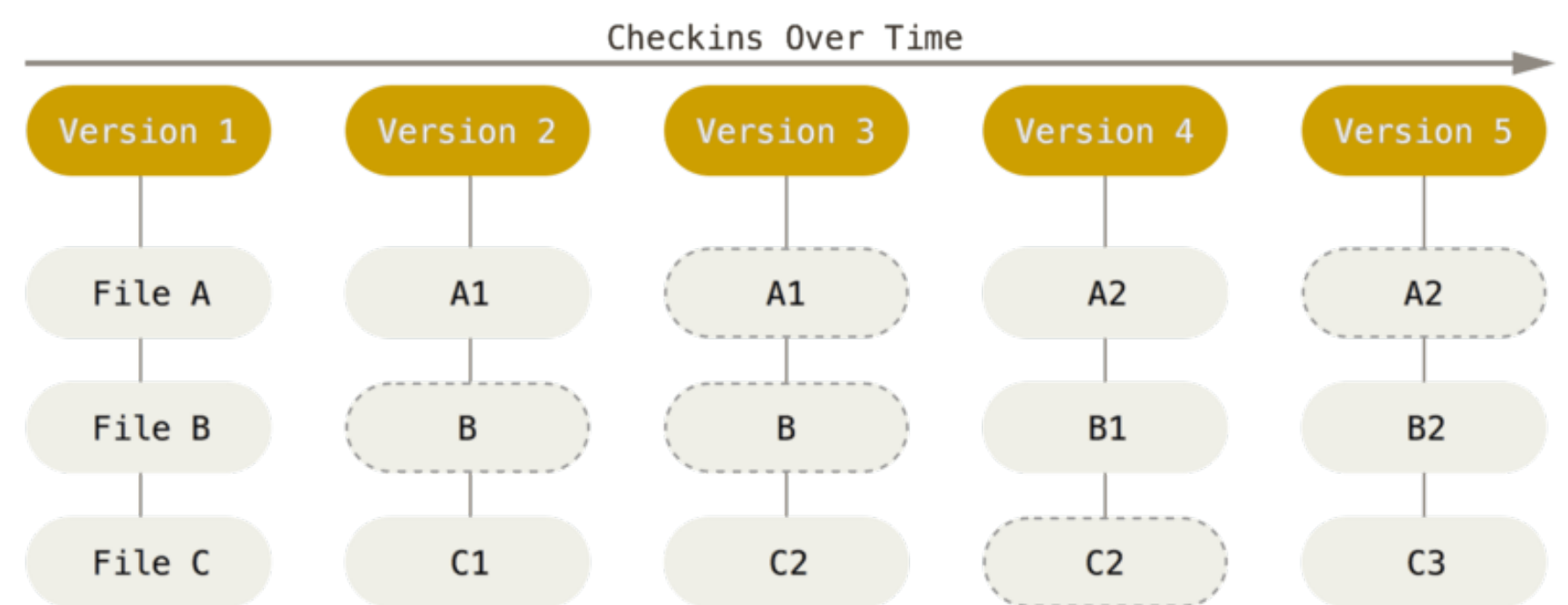Release Notes (2018-06-21)

Download 2.18.0 for Mac
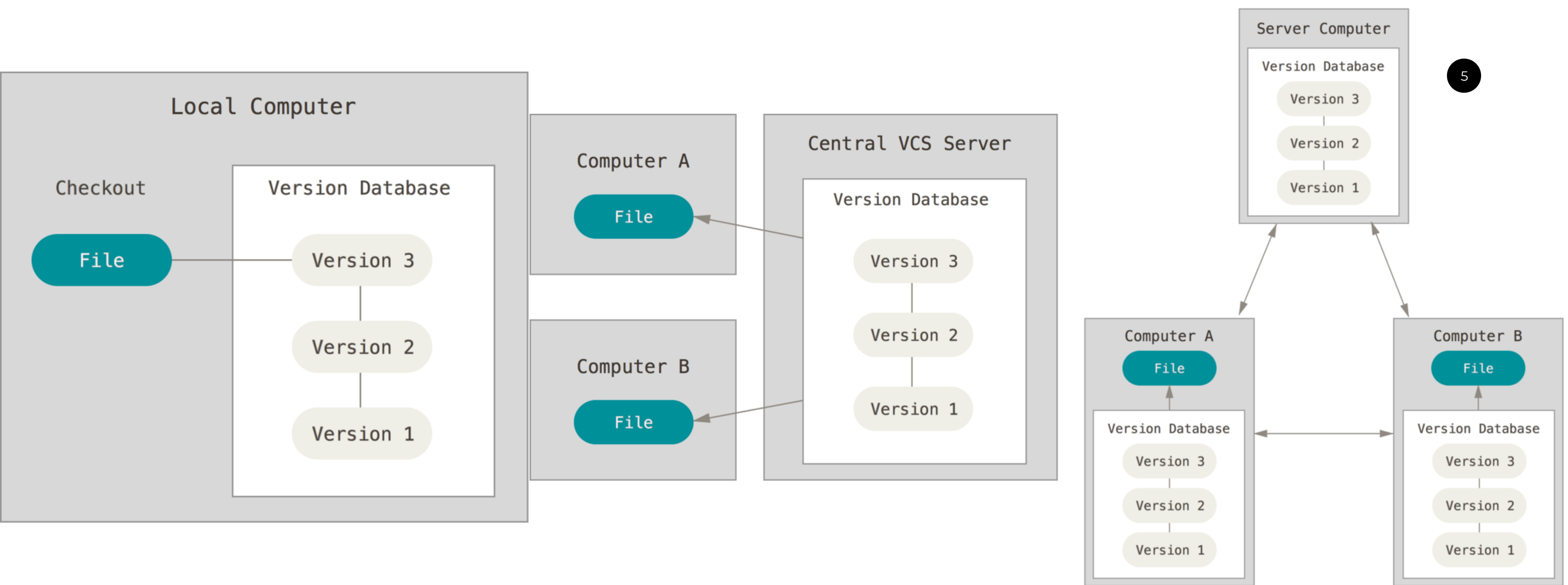
LOCAL
VERSION
CONTROL
SYSTEM

CENTRALIZED
VERSION
CONTROL
SYSTEM

DISTRIBUTED
VERSION
CONTROL
SYSTEM

Differences

Snapshots

Checkins Over Time

Version 1	Version 2	Version 3	Version 4	Version 5
File A	Δ1		Δ2	
File B			Δ1	Δ2
File C	Δ1	Δ2		Δ3

Checkins Over Time

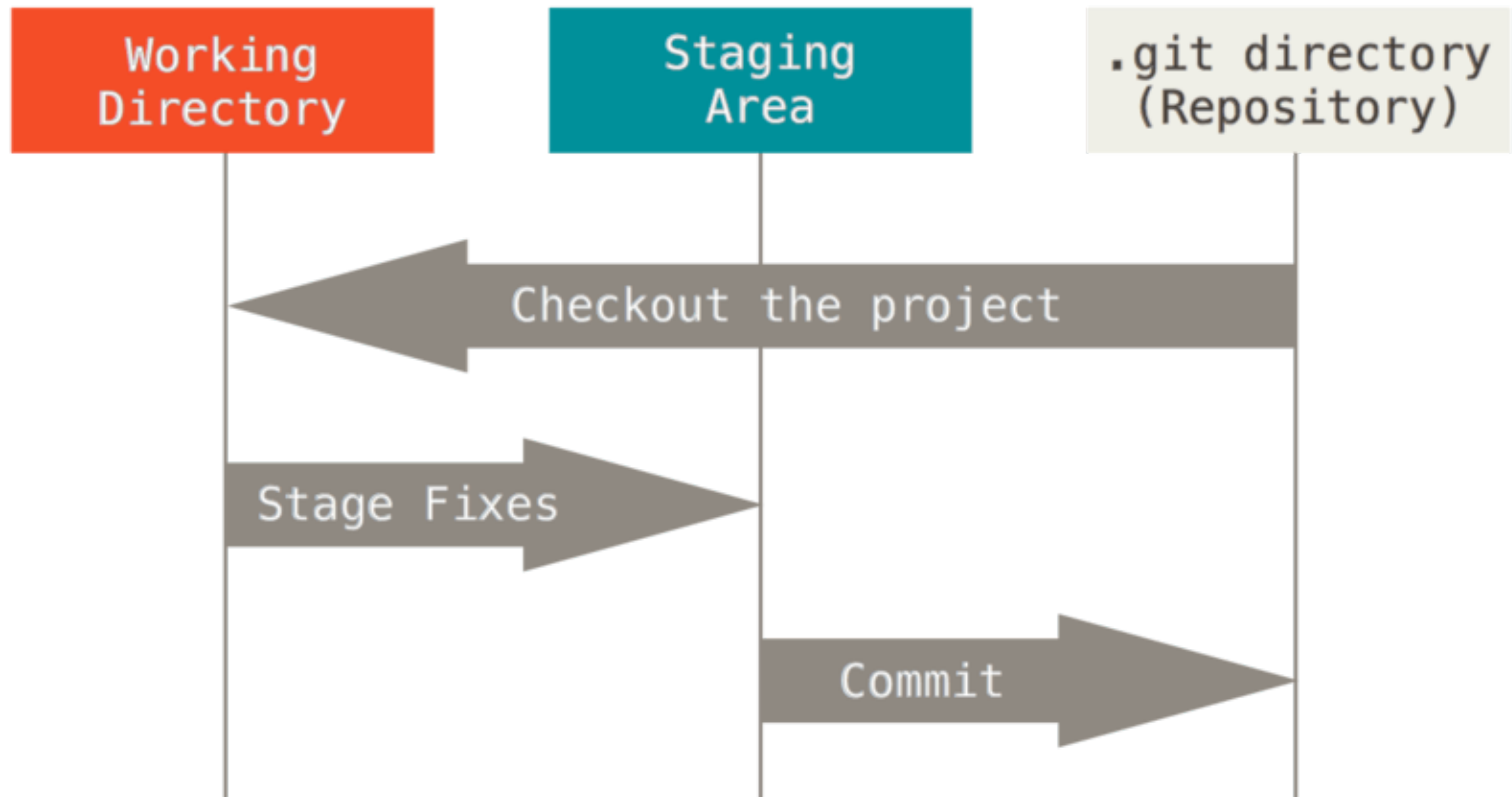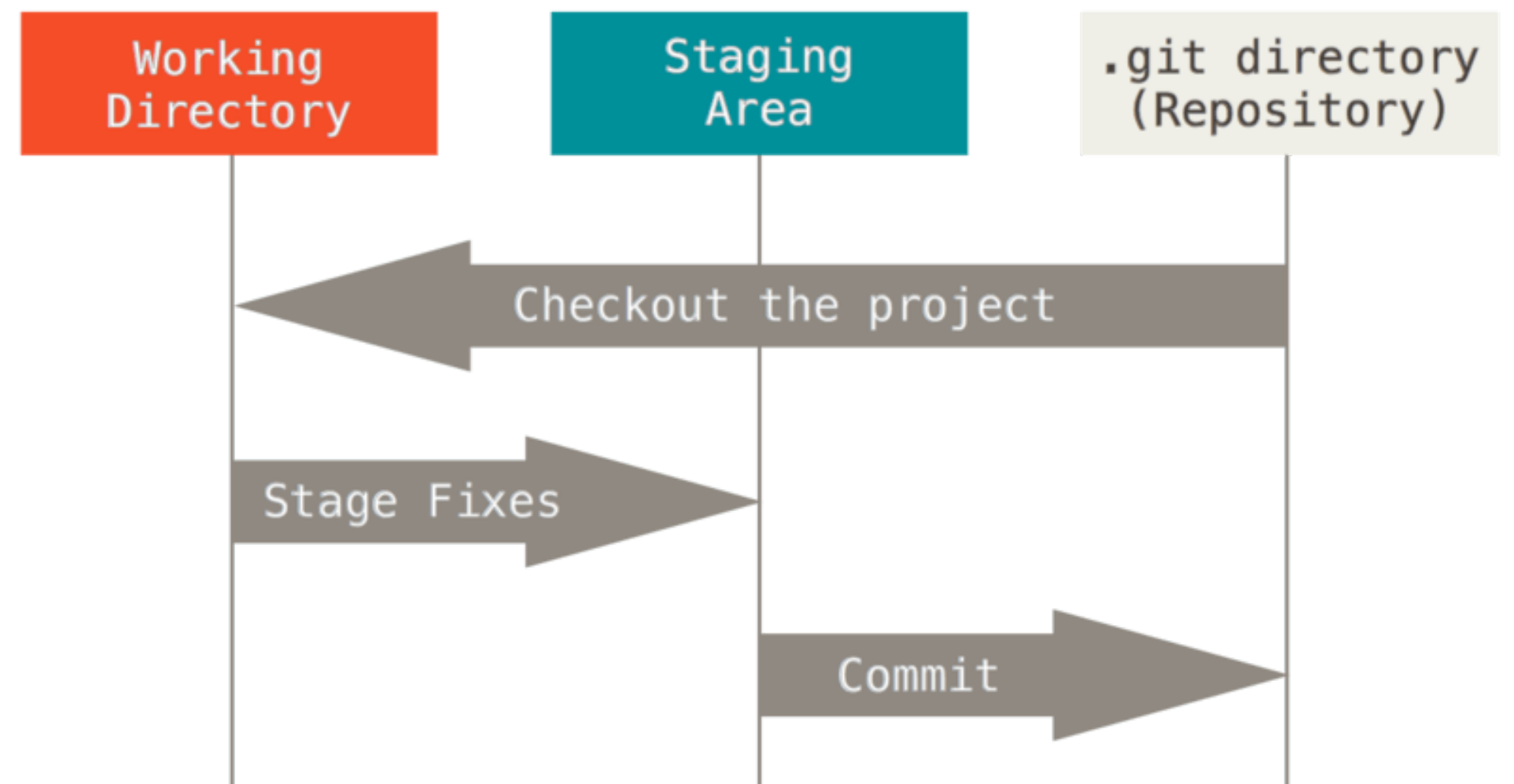| Version 1	Version 2	Version 3	Version 4	Version 5
File A	A1	A1	A2	A2
File B	B	B	B1	B2
File C	C1	C2	C2	C3

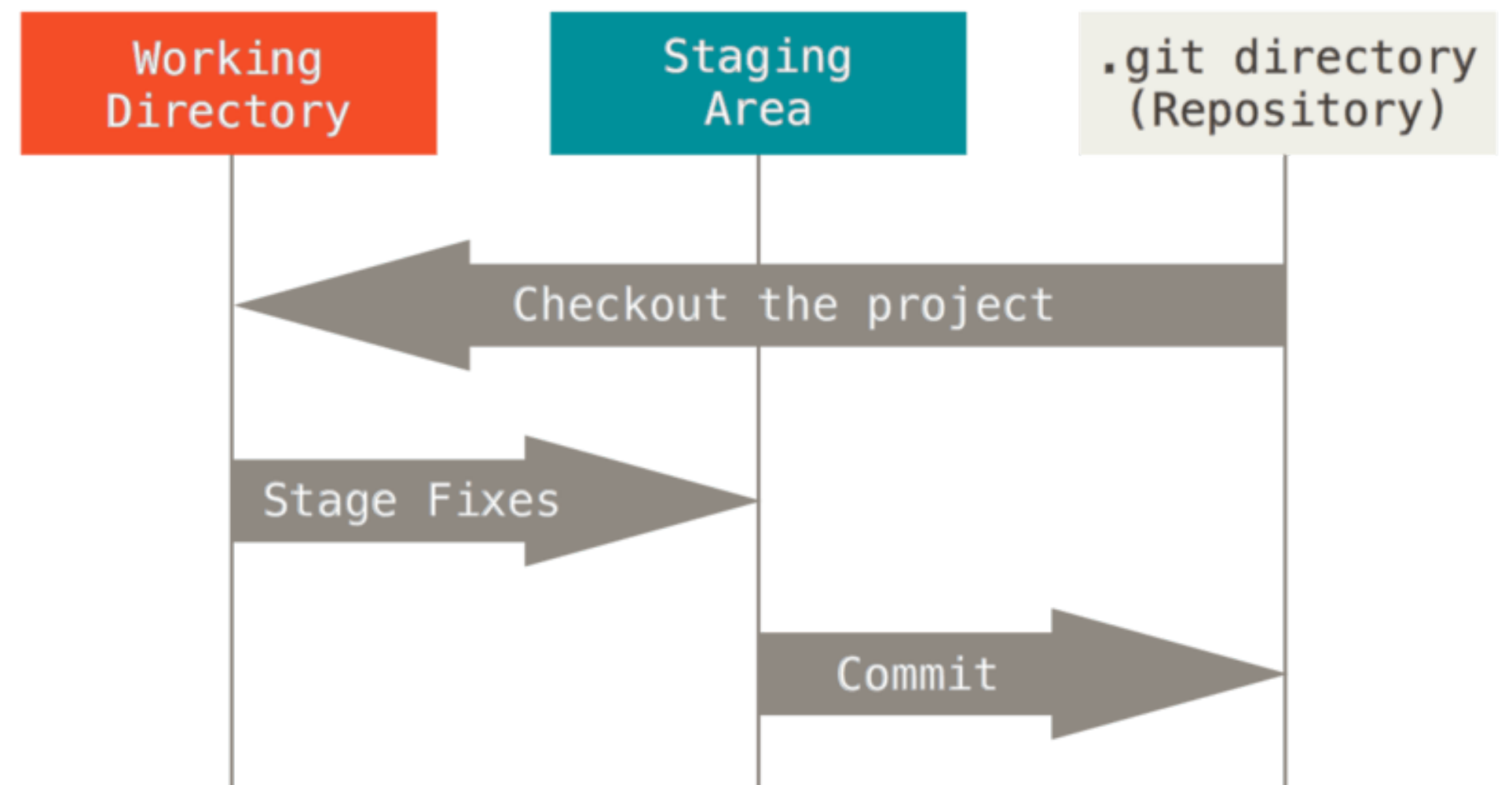# Areas (The three states)

Git Areas (The three states)
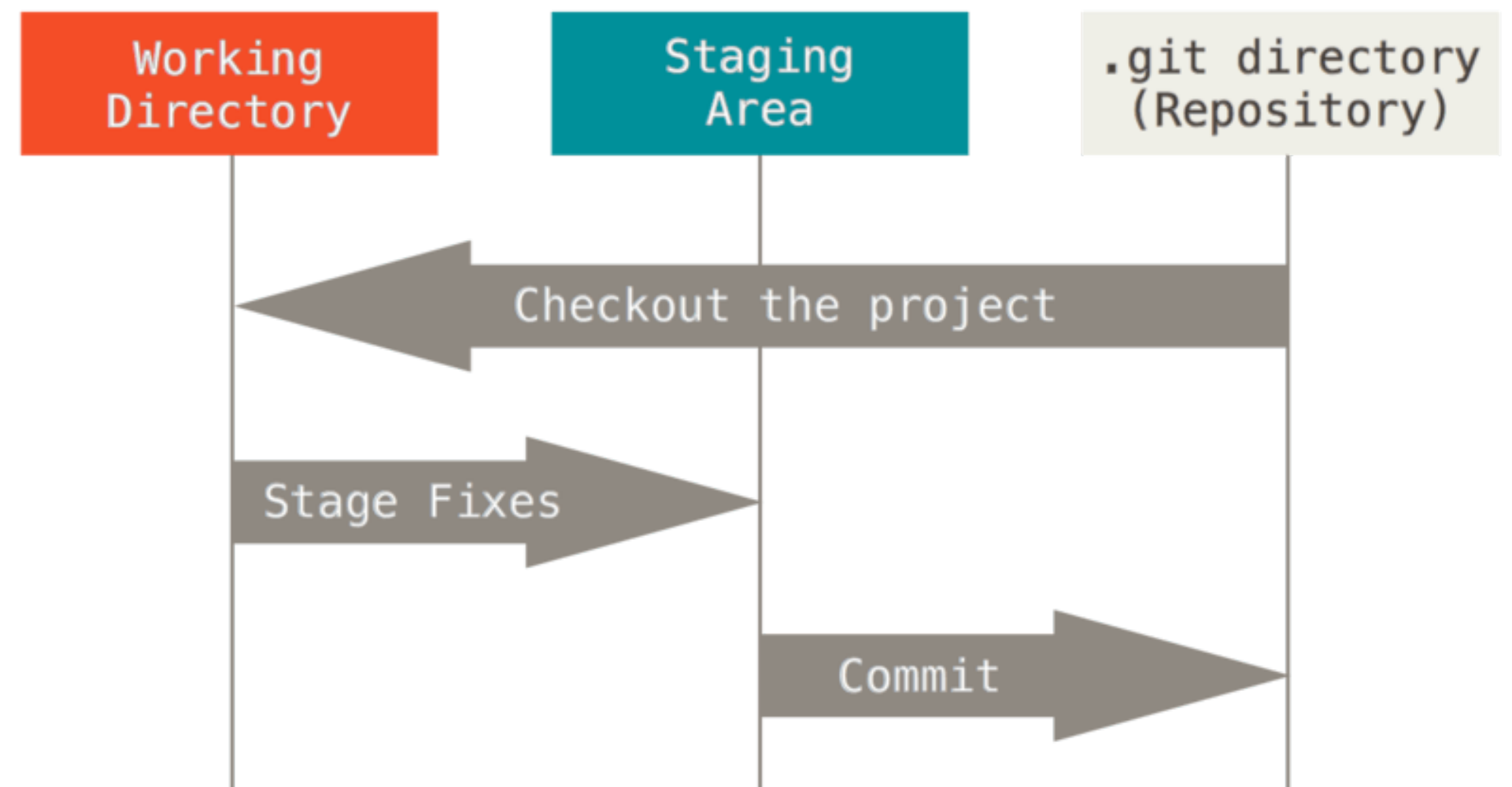
1. You modify files in your ***working tree.***

Git Areas (The three states)

2. Selectively select just those changes you want to be included. Changes added to **staging area**

Git Areas (The three states)

3. You do a **commit** (creates a snapshot from the staging area and stores it to the Git repo)

```
1. /etc/gitconfig
2. ~/.gitconfig or ~/.config/git/config
3. .git/config (Current project path)

Windows Systems

1. C:\Users\$USER - /etc/gitconfig
2. Windows XP
    C:\Documents and Settings\All Users\Application Data\Git\config
   Windows Vista - newer
    C:\ProgramData\Git\config
3. .git/config (Current project path)
```

Git config

```
$ ls -la

total 216
drwxr-xr-x   35 andresmartinez   staff    1120 Aug  6 17:54 .
drwxr-xr-x    4 andresmartinez   staff     128 Jul 31 16:13 ..
-rw-r--r--    1 andresmartinez   staff      71 Jul 31 16:14 .env
drwxr-xr-x   14 andresmartinez   staff     448 Aug  8 05:06 .git
-rw-r--r--    1 andresmartinez   staff    1149 Jul 31 16:14 .gitignore
-rw-r--r--    1 andresmartinez   staff    4551 Jul 31 16:14 .gitlab-ci.yml
-rw-r--r--    1 andresmartinez   staff     597 Jul 31 16:14 .project
-rw-r--r--    1 andresmartinez   staff     202 Jul 31 16:14 .pryrc
-rw-r--r--    1 andresmartinez   staff      22 Jul 31 16:14 .rspec
-rw-r--r--    1 andresmartinez   staff       9 Jul 31 16:14 .ruby-gemset
-rw-r--r--    1 andresmartinez   staff       6 Jul 31 16:14 .ruby-version
```

```
$ git config (--local | --global | --system) --list
user.name=John Doe
user.email=johndoe@example.com
credential.helper=osxkeychain
core.repositoryformatversion=0
core.filemode=true
core.bare=false
core.logallrefupdates=true
core.ignorecase=true
core.precomposeunicode=true
remote.origin.url=git@git.bowmansystems.net:sp6dev/sp6-api.git
remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
branch.master.remote=origin
branch.master.merge=refs/heads/master
branch.develop.remote=origin
branch.develop.merge=refs/heads/develop
```
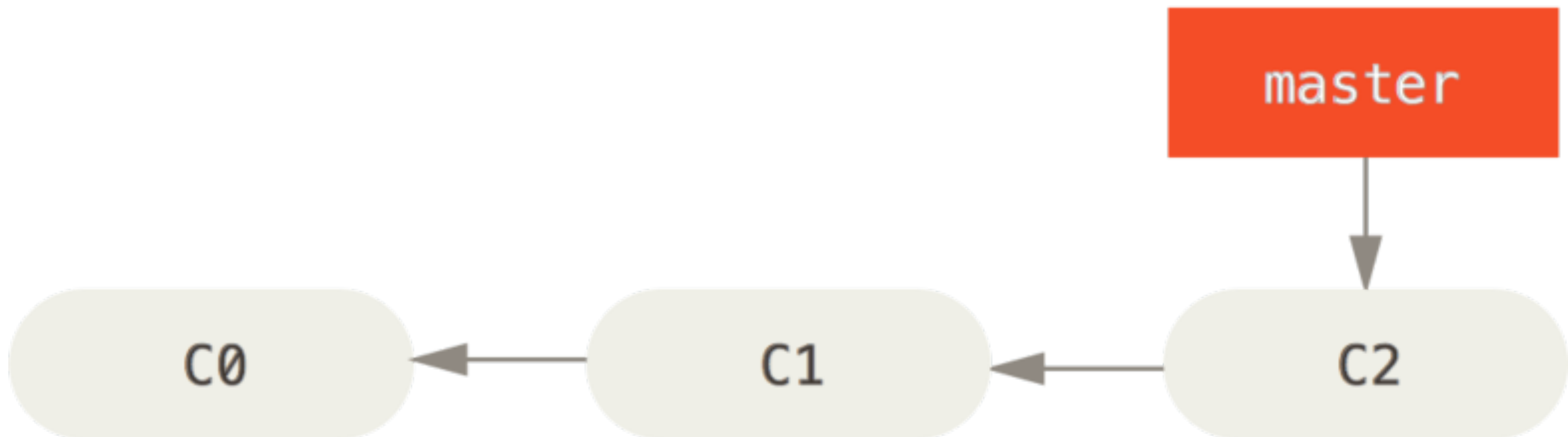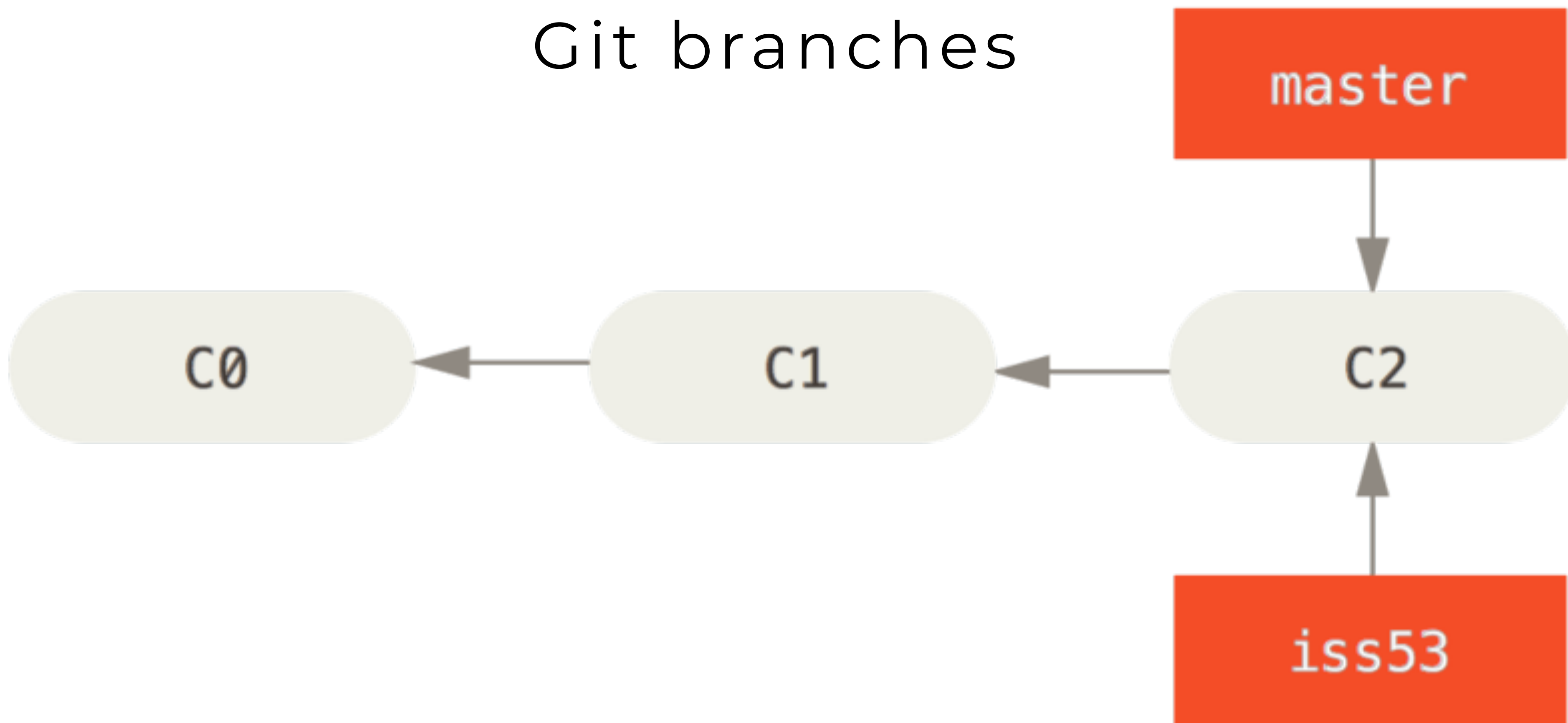
```
$ git config user.name
John Doe

$ git config user.email
johndoe@example.com
```
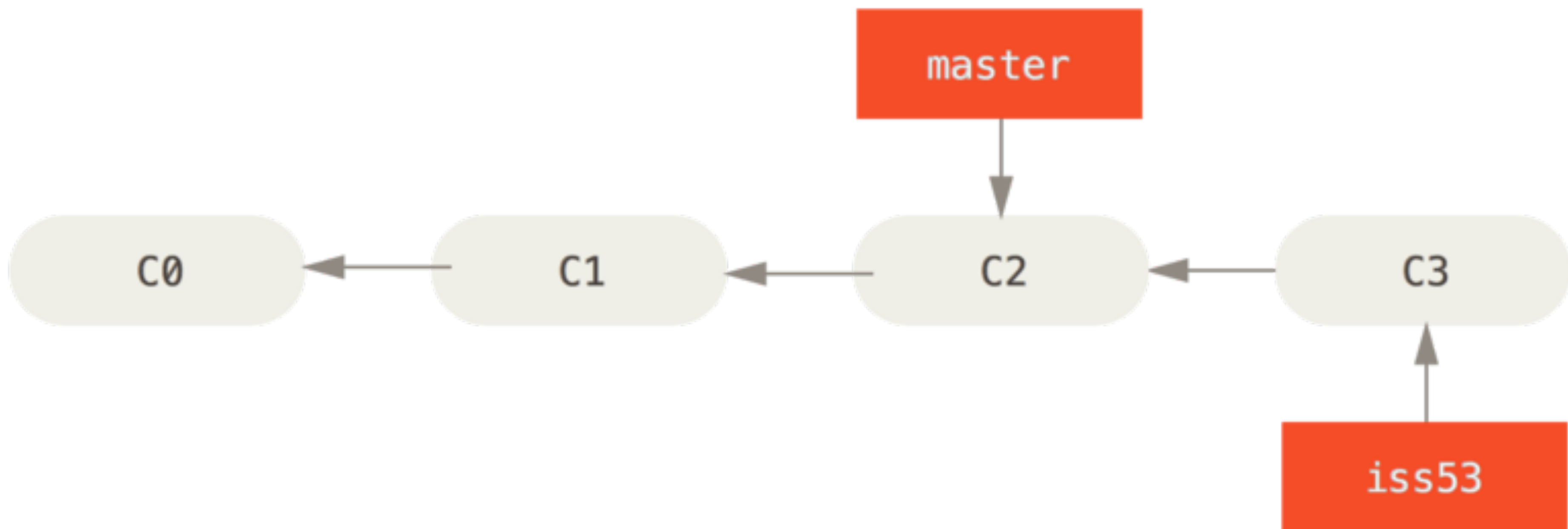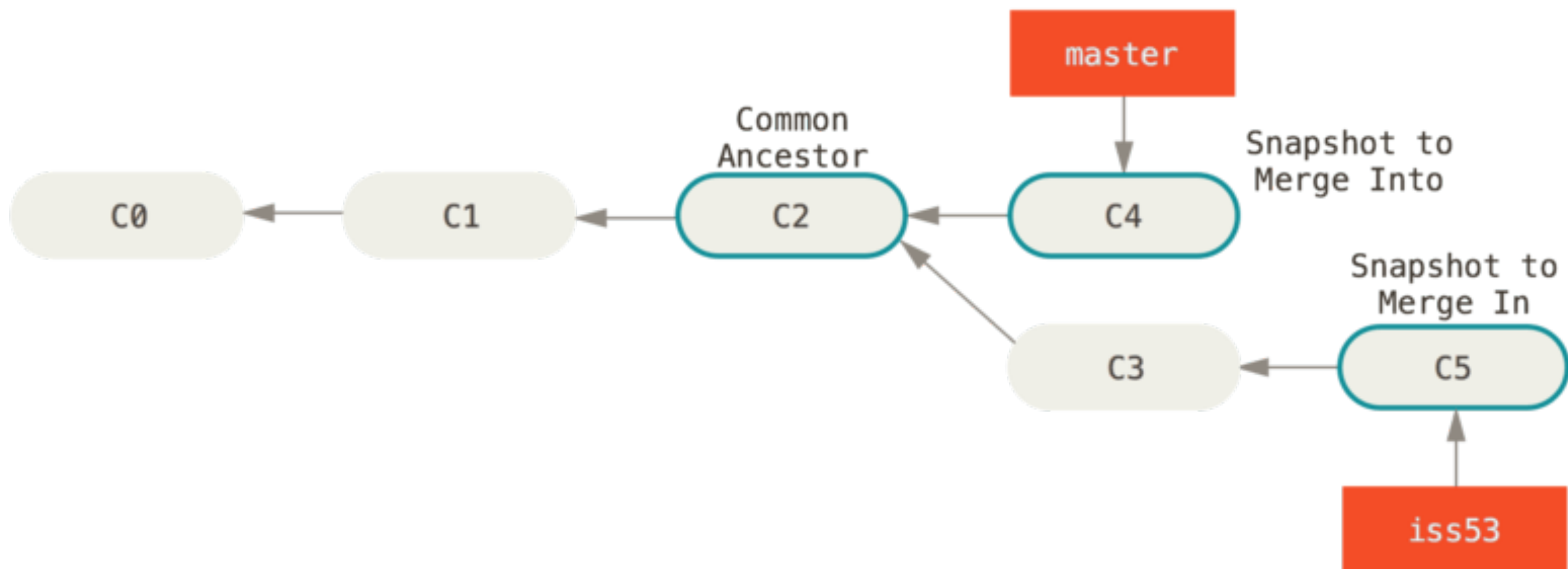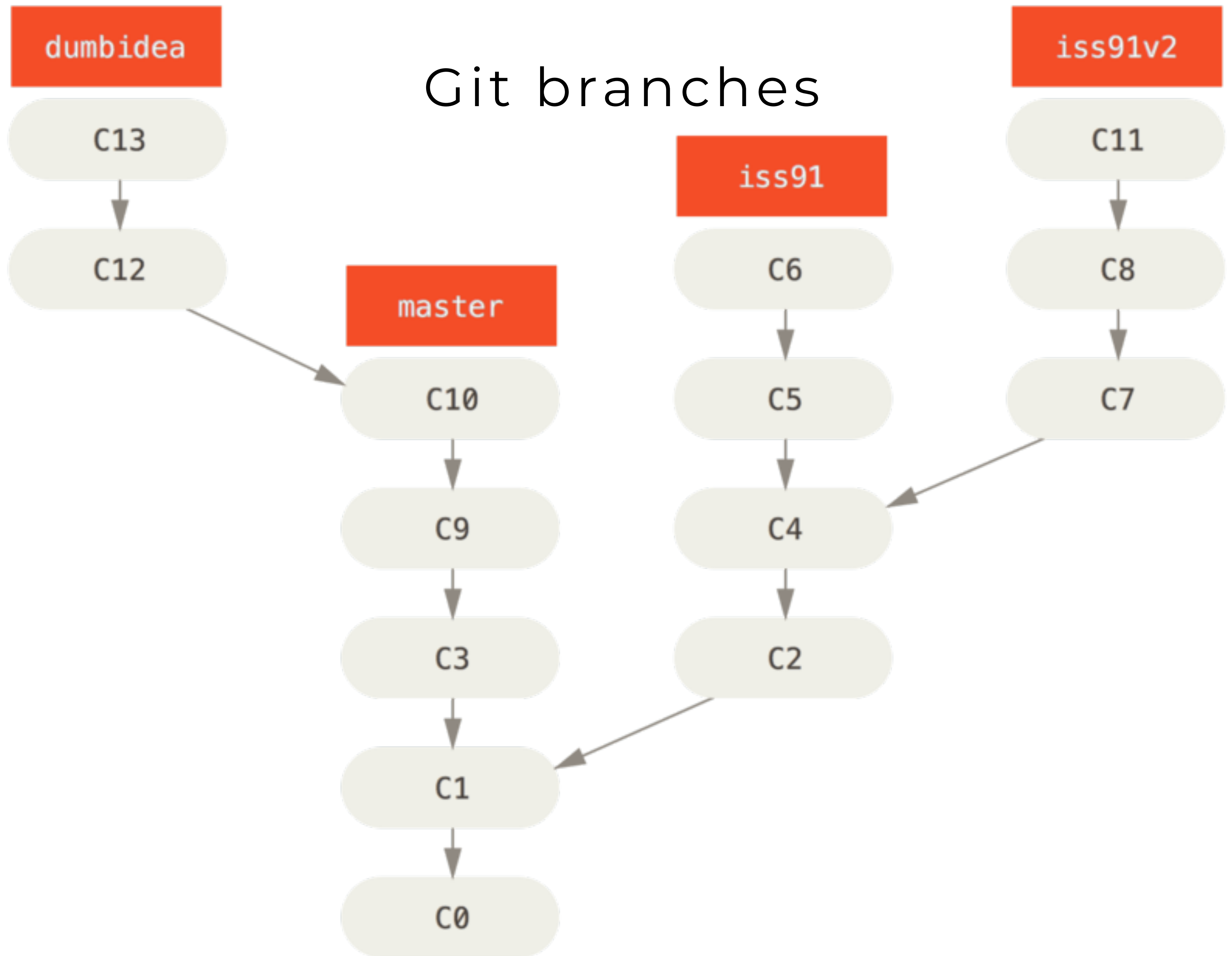
Git branches
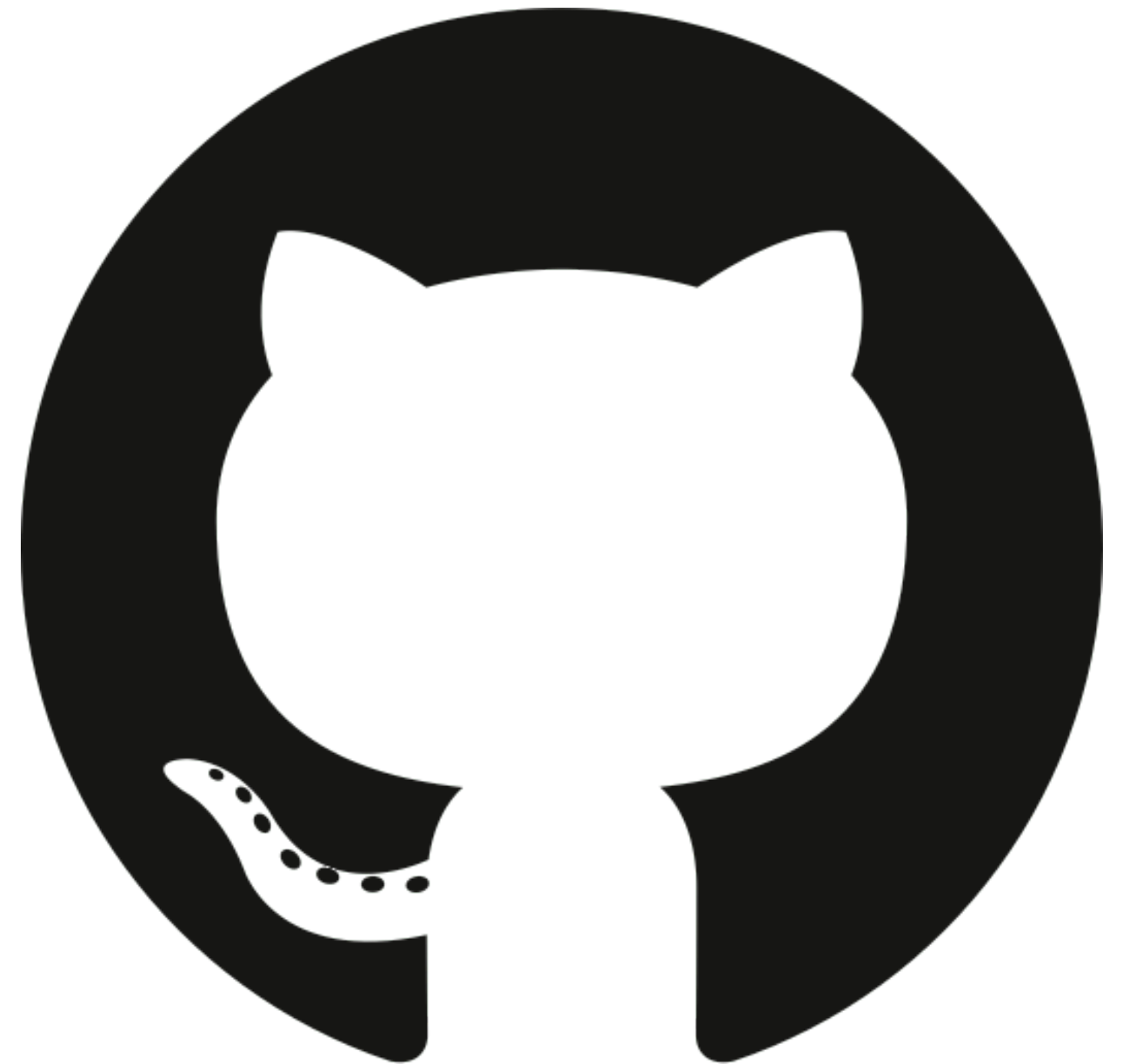
Git branches

Git branches

Git branches

Git branches

Github vs Gitlab

Github

- GitHub is a web-based hosting service for version control using git.
- Written in Ruby
- It offers:
  - All of the distributed version control
  - Source code management functionality of Git

Gitlab

- GitLab is a web-based Git repository manager
- Wiki and issue tracking features
- Open Source license
- Written in Ruby.
- written by Dmitriy Zaporozhets and Valery Sizov from Ukraine.

Online Resources

⟩ https://git-scm.com/book/en/v2

⟩ https://nvie.com/posts/a-successful-git-branching-model/

⟩ https://services.github.com/on-demand/downloads/github-git-cheat-sheet/

Thank you!