
How Effective Teams

Use 

megakemp.com/git



megakemp.com/git





HELP

SUPPORT

ADVICE

GUIDANCE





GIT(1)

Git Manual

GIT(1)



NAME

git - the stupid content tracker

SYNOPSIS

```
git [--version] [--help] [-C <path>] [-c <name>=<value>]
    [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
    [-p|--paginate|--no-pager] [--no-replace-objects] [--bare]
    [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
    [--super-prefix=<path>]
    <command> [<args>]
```

DESCRIPTION

Git is a fast, scalable, distributed revision control system with an unusually rich command set that provides both high-level operations and full access to internals.

See `gittutorial(7)` to get started, then see `giteveryday(7)` for a useful minimum set of commands. The `Git User's Manual[1]` has a more in-depth introduction.

After you mastered the basic concepts, you can come back to this page to learn what commands Git offers. You can learn more about individual Git commands with "git help command". `gitcli(7)` manual page gives you an overview of the command-line command syntax.

A formatted and hyperlinked copy of the latest Git documentation can be viewed at <https://git.github.io/htmldocs/git.html>.

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I'M WRITING THIS DOWN

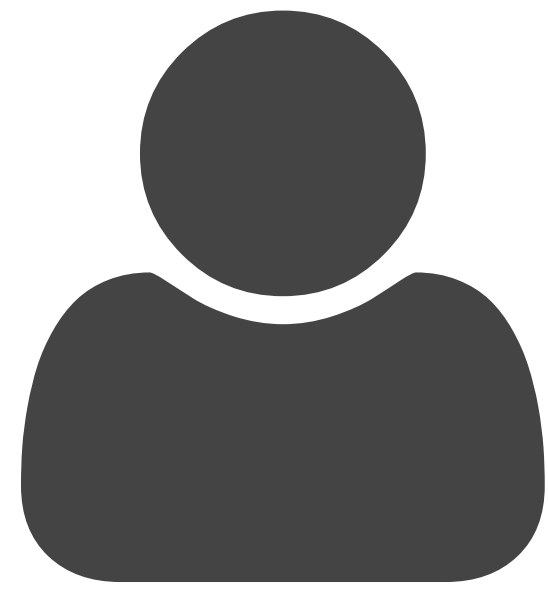


IT'S GOOD STUFF

What this talk **is about**

A collection of **Git habits**
to improve your development workflow
both **individually** and **as a team**

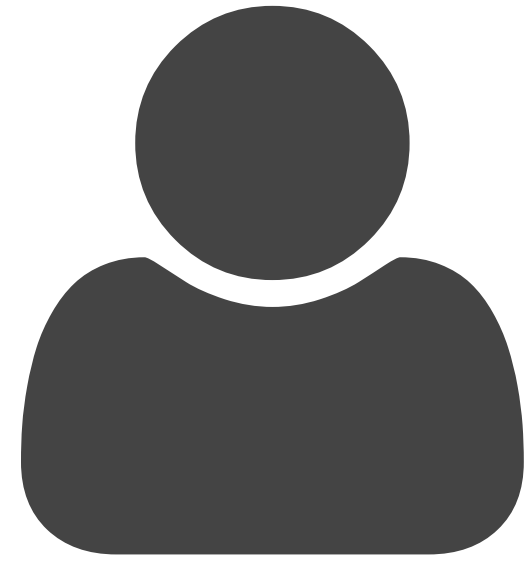
Let's Get Started



Personal Workflows



Team Workflows



1

2

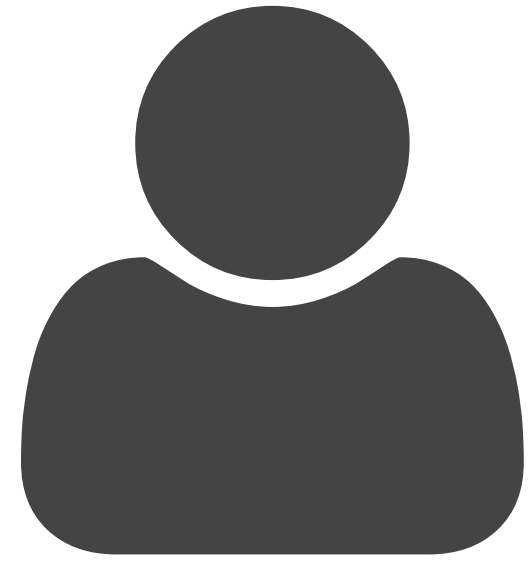
3



1

2

3



1

2

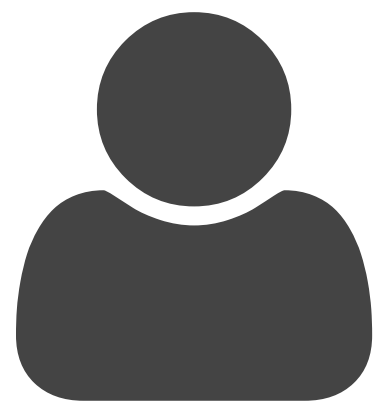
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1

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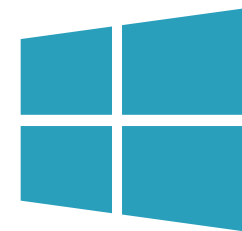


① Get Comfy

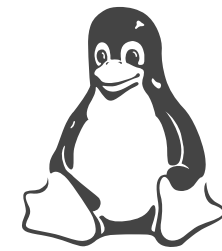
Configure your [environment](#)



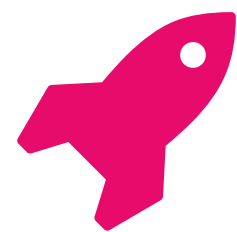
Git-aware Prompt



posh-git



bash-git-prompt



starship



Pretty Diffs

```
core.pager "diff-so-fancy" | less -RFX
```

↔ Whitespace Handling

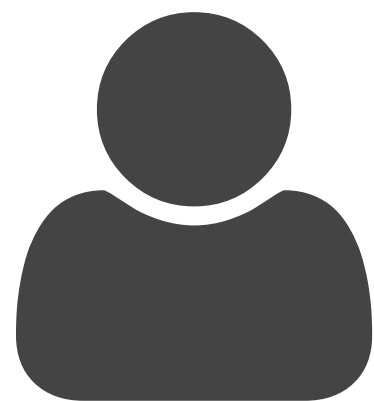
```
core.whitespace tab-in-indent
```

```
git diff --check
```



Better Conflict Handling

```
merge.conflictstyle diff3
```



② Craft Your History

Create **ACID** commits

Autonomous

A commit should contain a
single logical change
independent from other commits

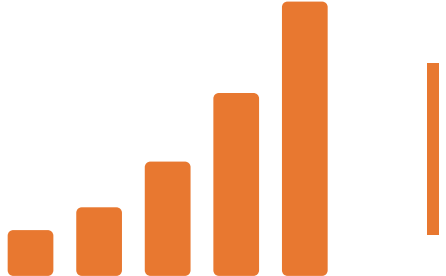
```
git add --patch
```



A commit should **not break**
the state of the working tree

```
git stash save --keep-index
```

```
git rebase --exec
```



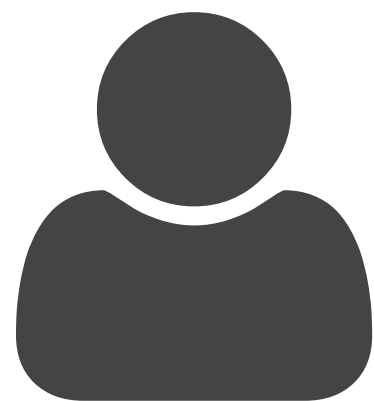
Incremental

A commit should represent a
logical progression
compared to previous commits

```
git rebase --interactive
```

Documented

A commit should clearly state
the purpose of the change
and the context in which it was made



③ Automate!

Let **Git** do the work for you

Aliased Functions

```
git config alias.undo
```



Reuse Recorded Resolutions

```
git config rerere.enabled true
```



Client-side Hooks

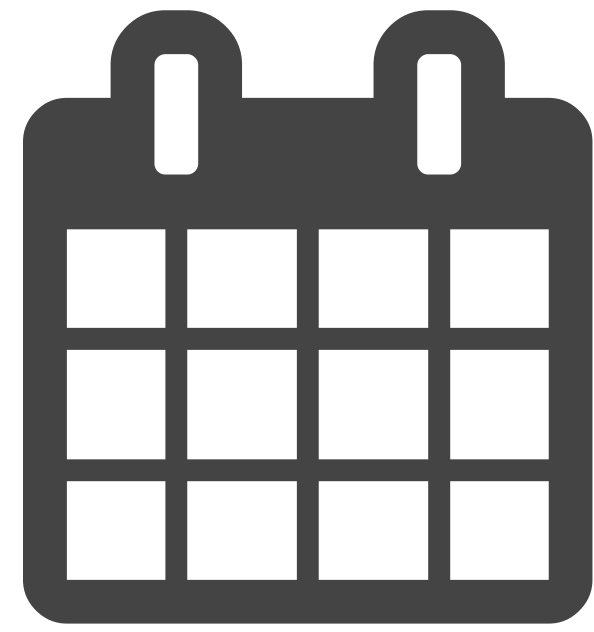
```
pre-commit # Validate the patch
```

```
commit-msg # Validate the message
```

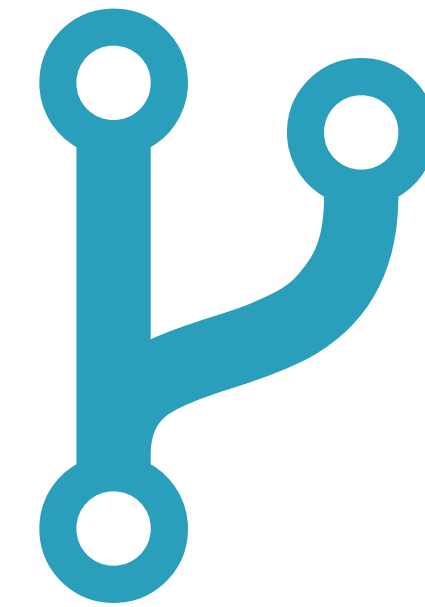


① Branching

Be aware of the different
kinds of branches

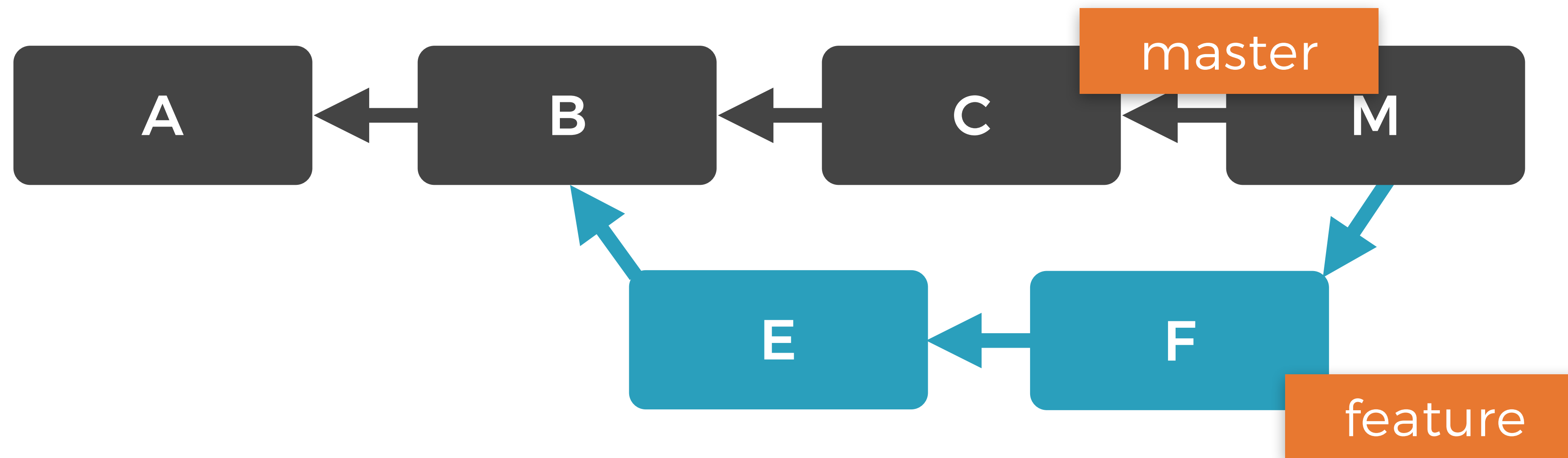


Long-running

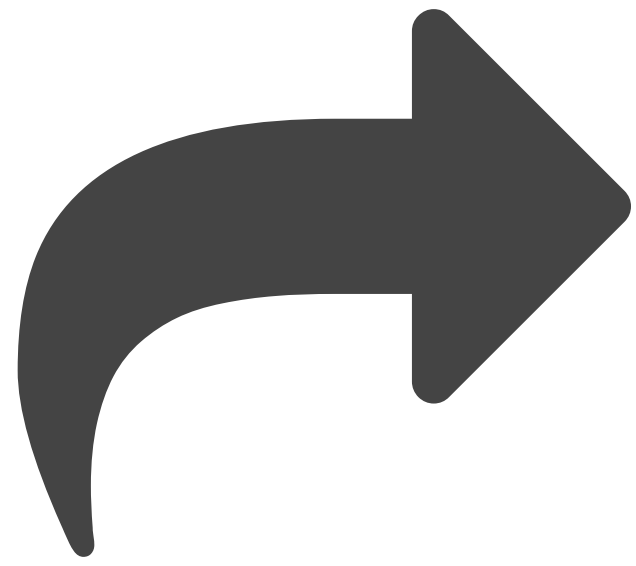


Topic

Long-running



Topic ↗

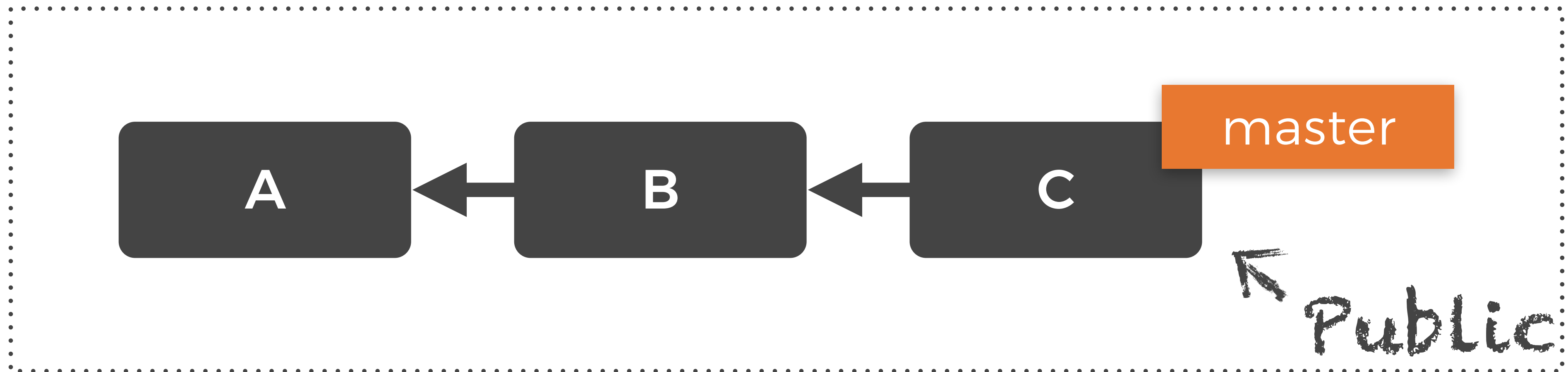


Public

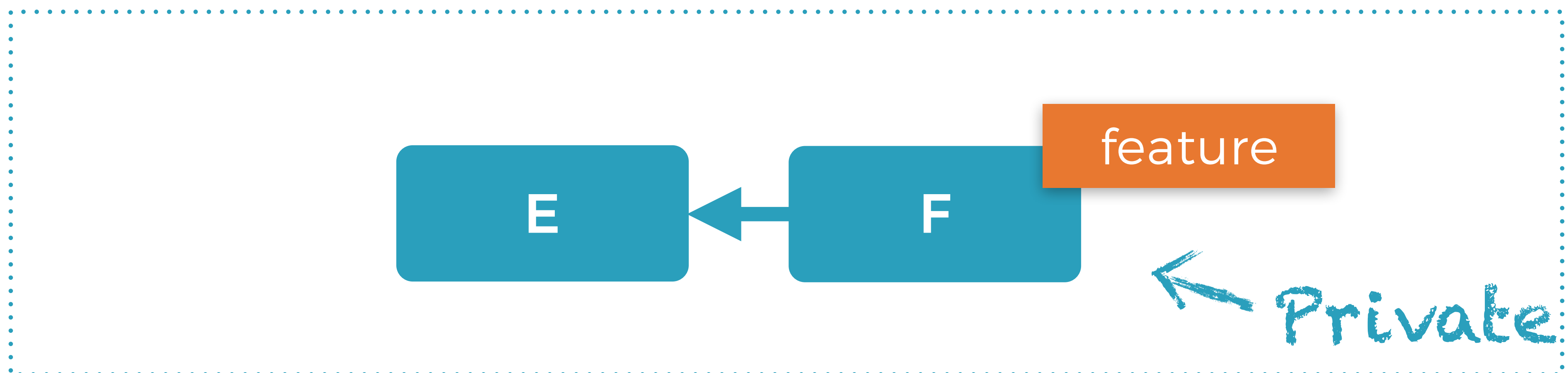


Private

Shared Repo

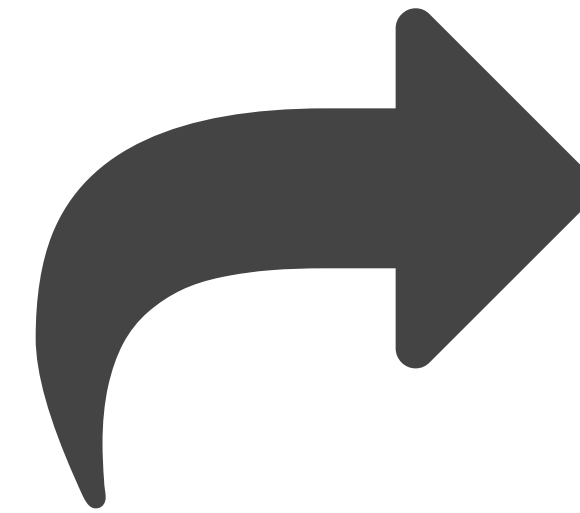


Local Repo

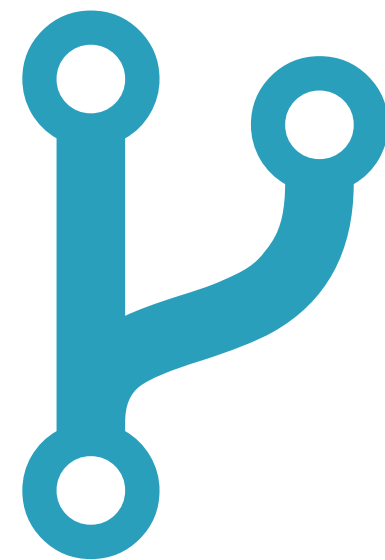




Long-running



Public



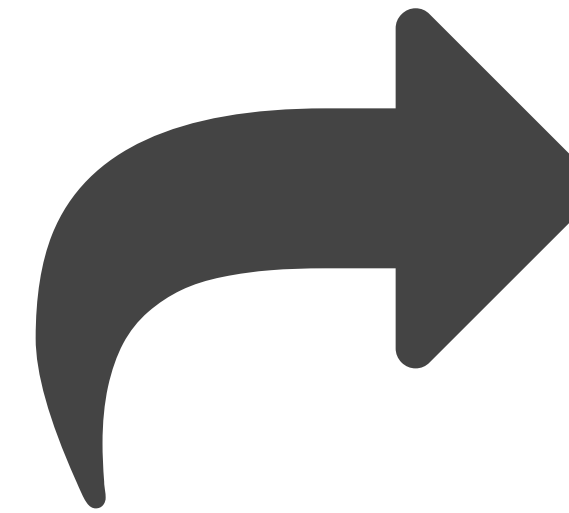
Topic



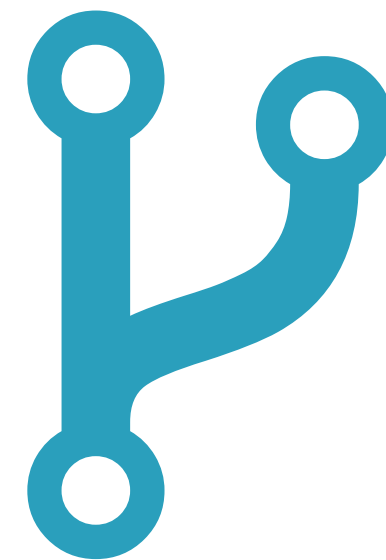
Private



Long-running



Public



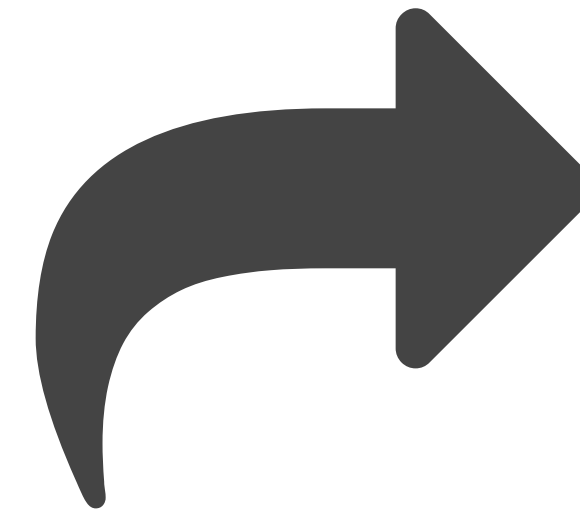
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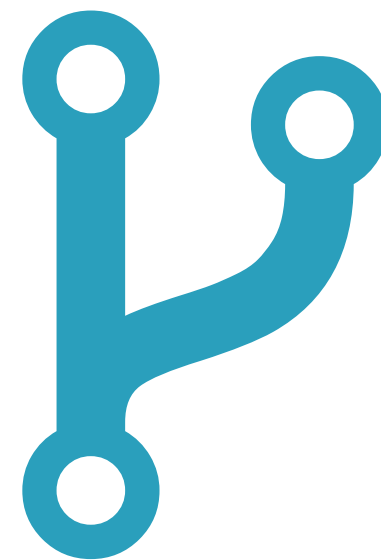
Private



Long-running



Public

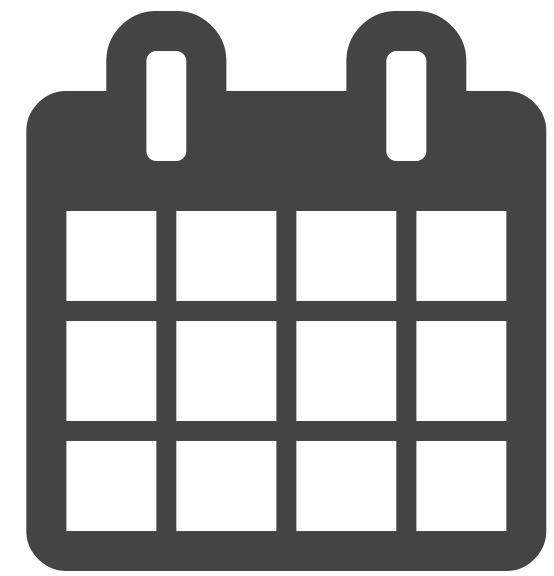


Topic

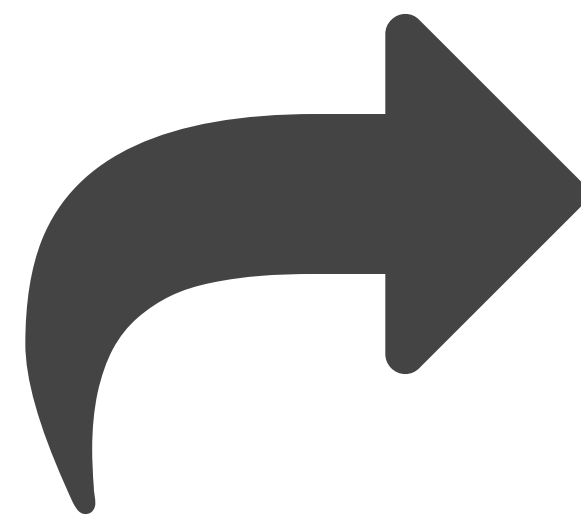


Private

Be Conservative

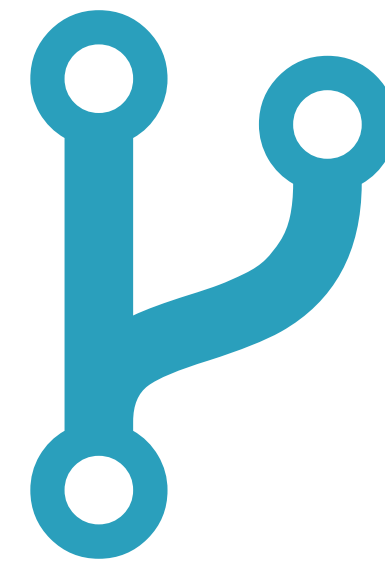


Long-running



Public

Be Liberal



Topic

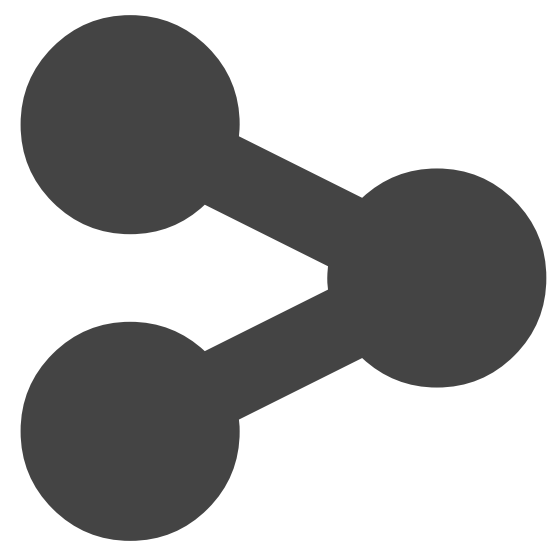


Private

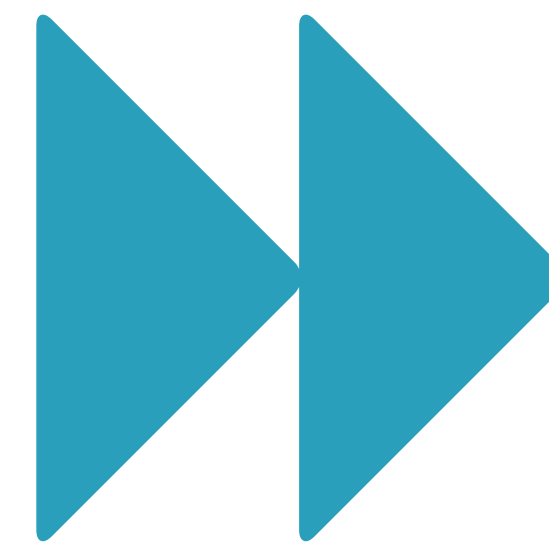


② Merging

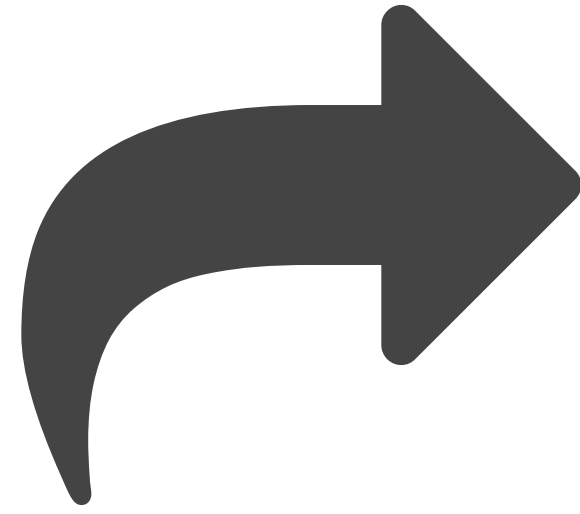
Let the branches decide
your **merge strategy**



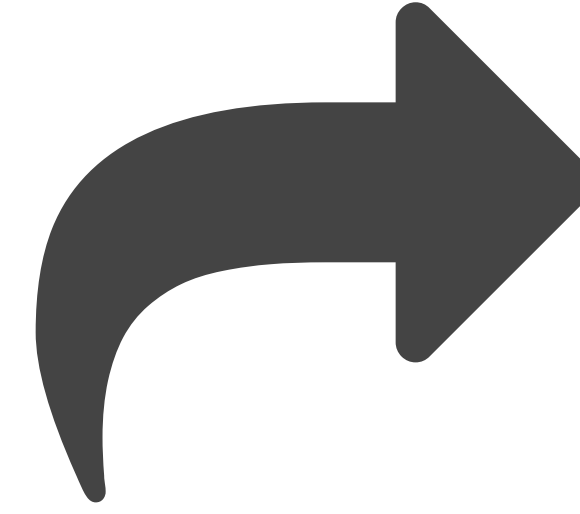
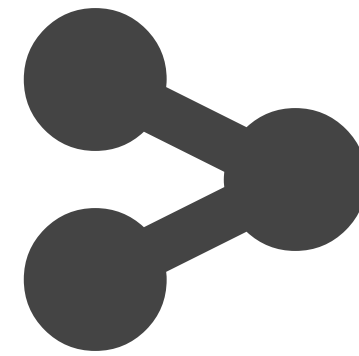
True Merge



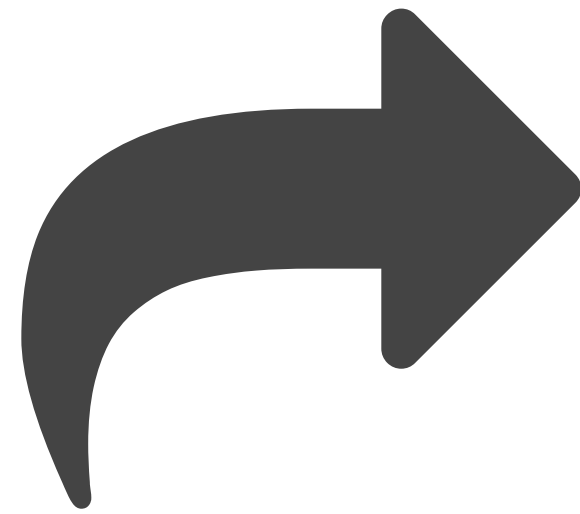
Rebase



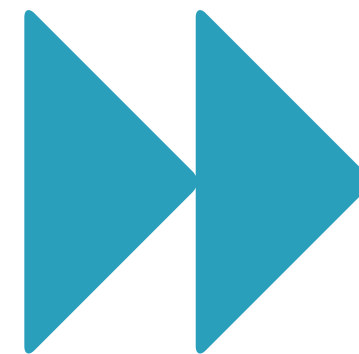
Public



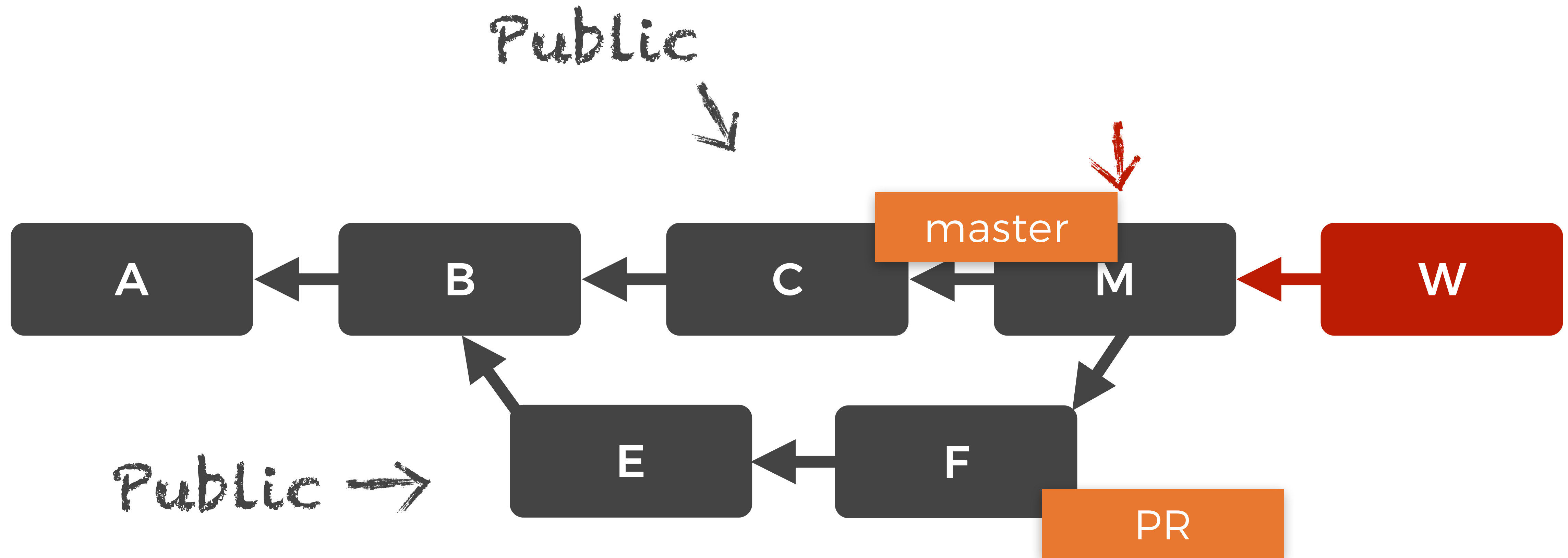
Public

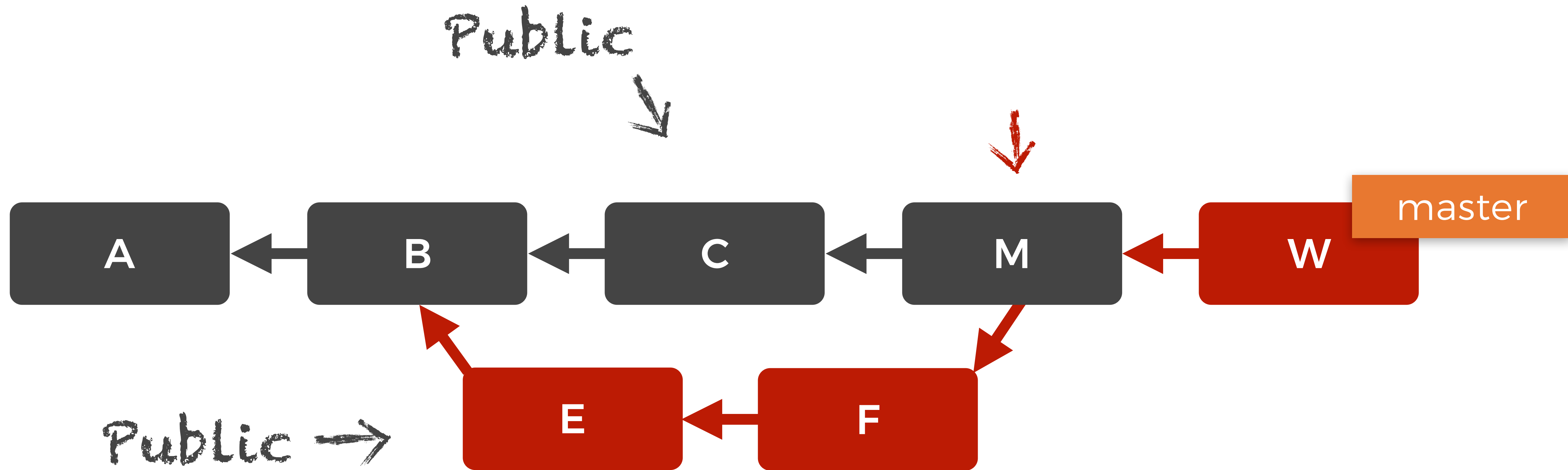


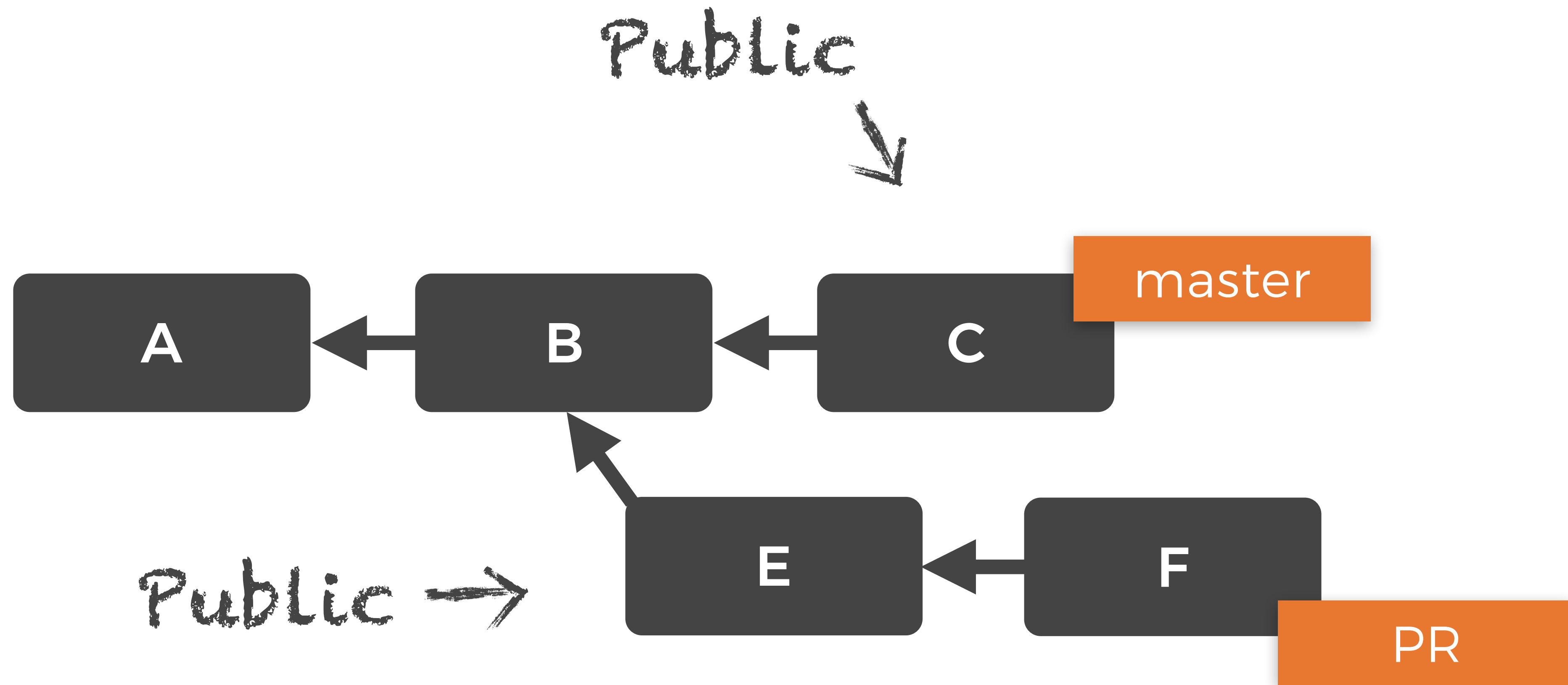
Public



Private



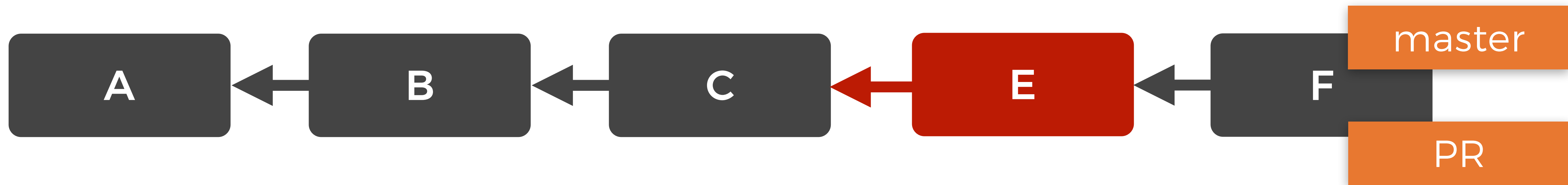




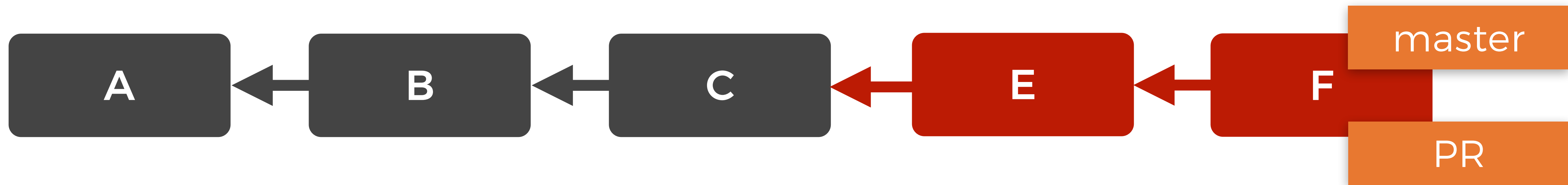
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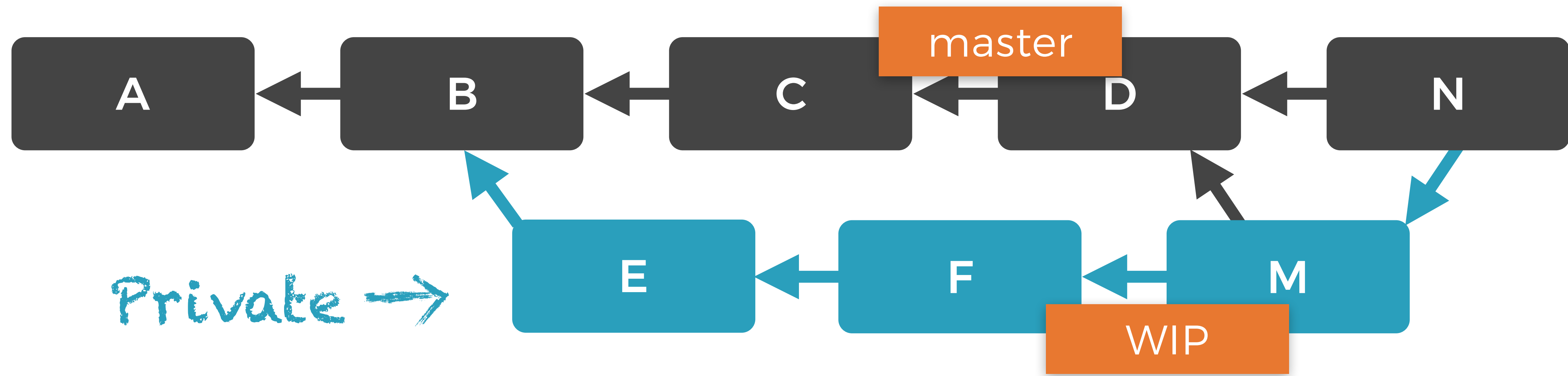
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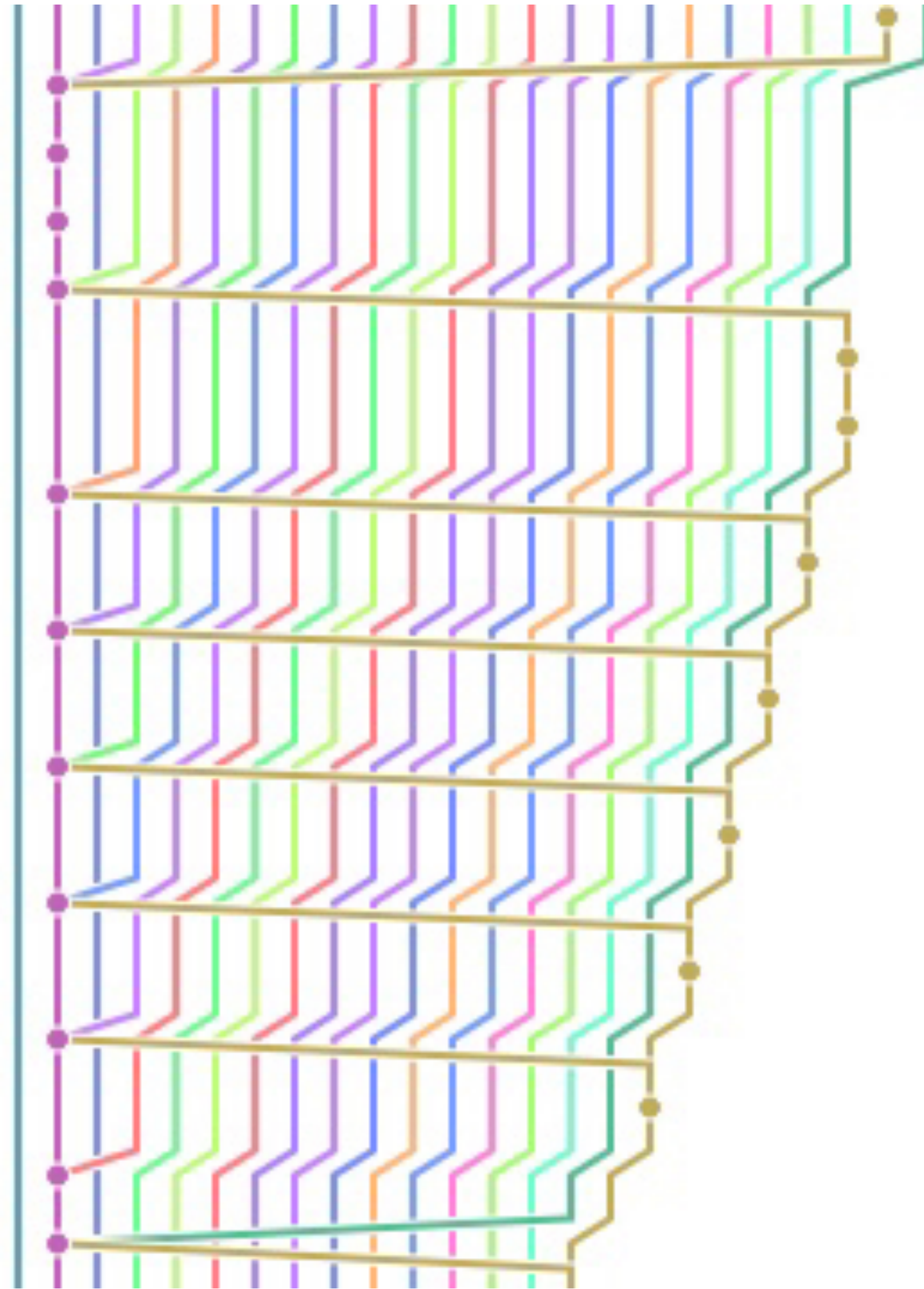


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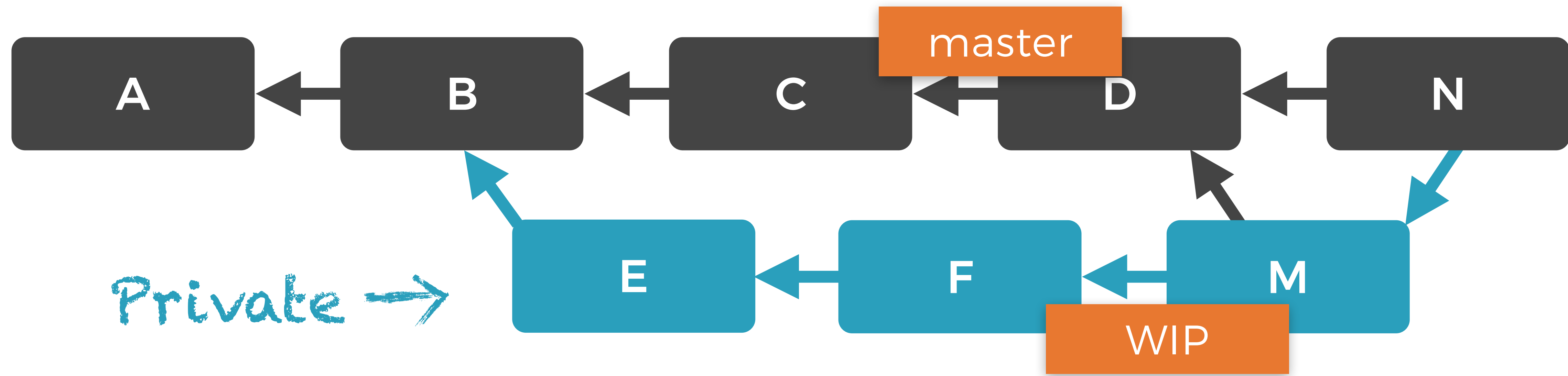
Private →

Guitar Hero
History →



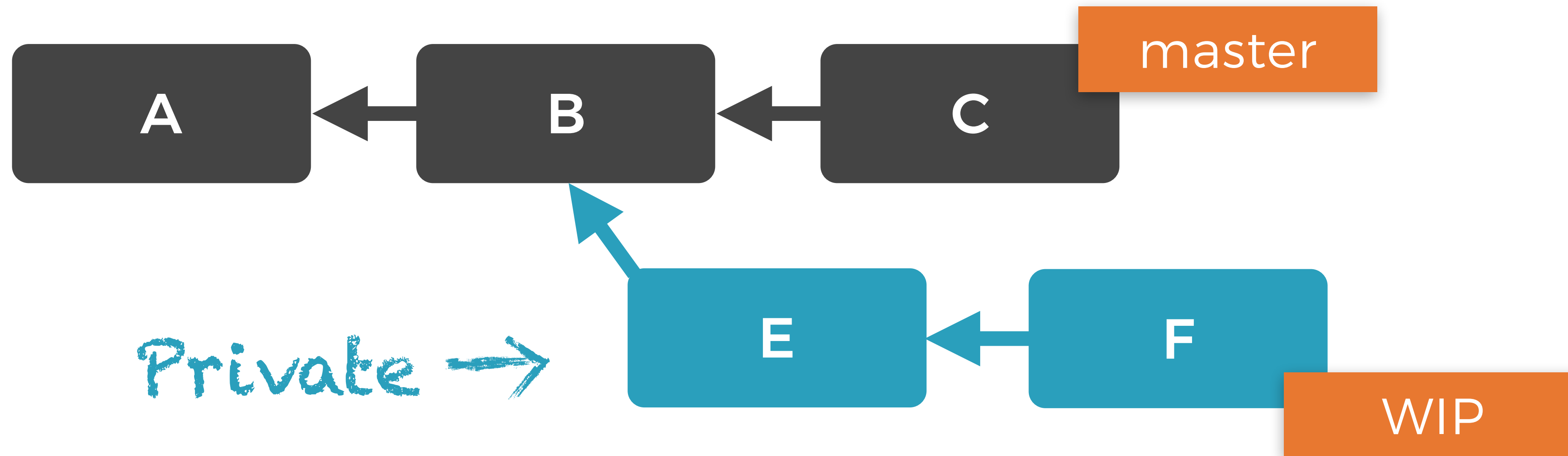


Public

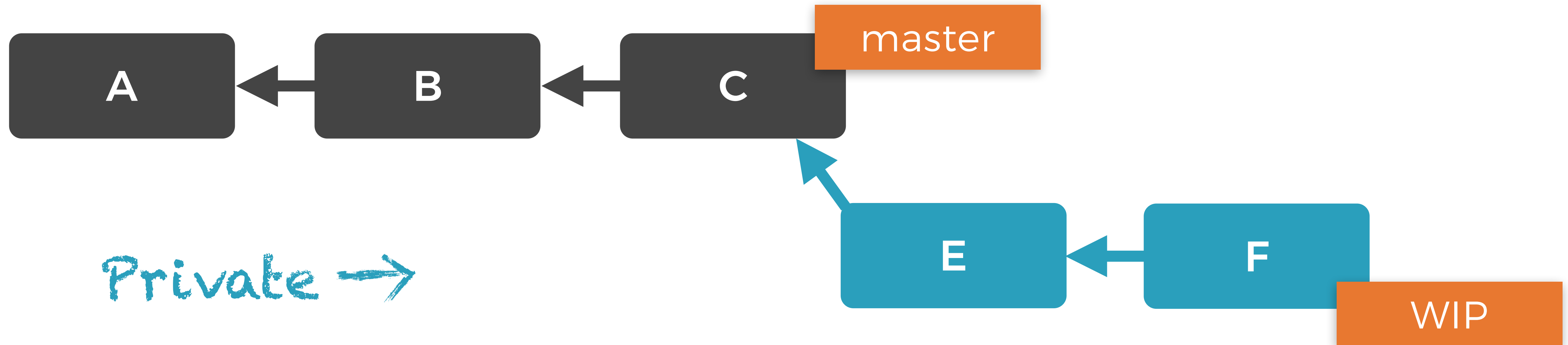


Private →

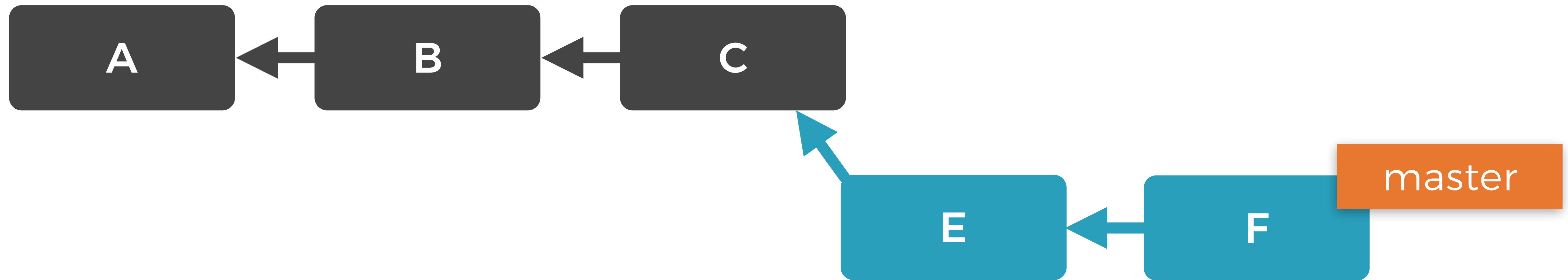
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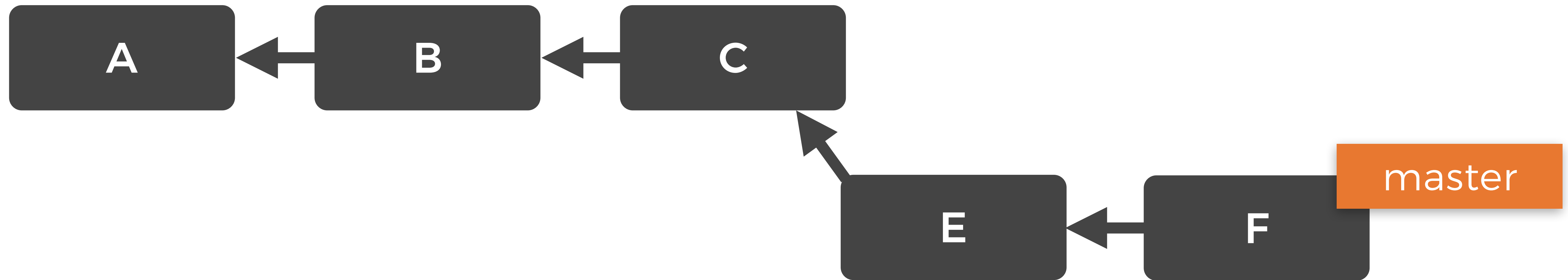
Public



Public
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③ Releasing

Map your branches to
your **release environments**



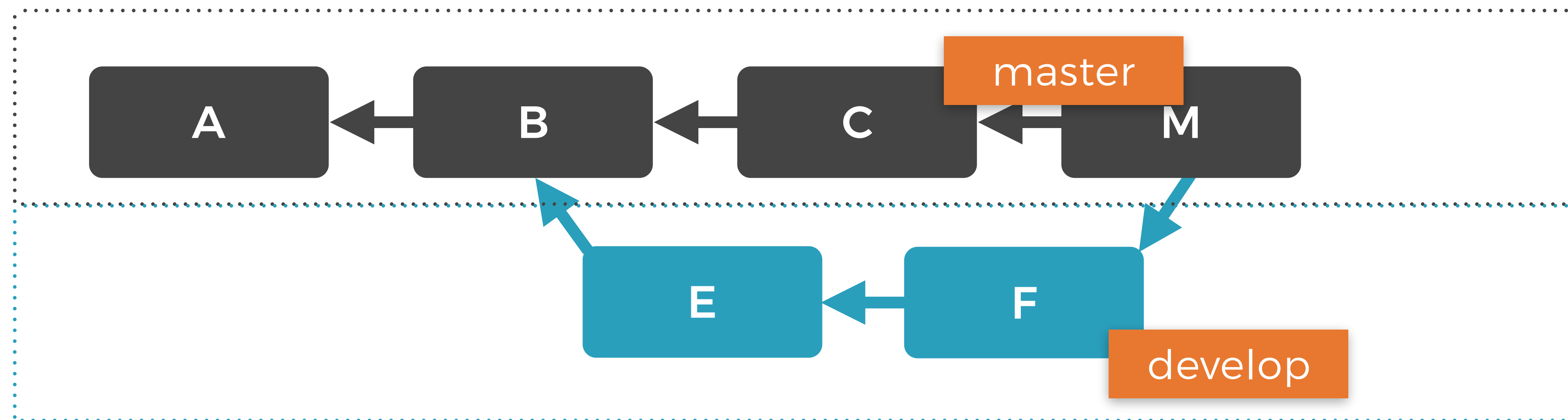
③ Releasing

Know where your branches **are going**



Production

Continuous Delivery



Continuous Deployment



Test ✓



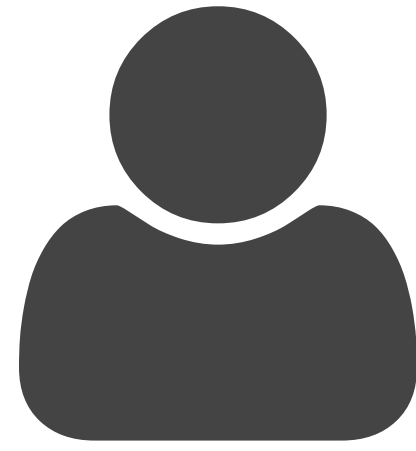
Test ✓



③ Releasing

Let your branches determine
your **versioning scheme**

Let's Wrap Up



- ① Get Comfy
- ② Craft History
- ③ Automate!



- ① Branching
- ② Merging
- ③ Releasing

Pluralsight | Advanced Git Tips and Tricks

 bit.ly/git-tips-tricks

Thank you.

 @ecampidoglio

 megakemp.com/git

 bit.ly/git-tips-tricks