



Git 101

About Me

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 - ACM Student Member (*a long time ago*)





codeandcoffee.dev

**This Saturday
March 1st, 2025**

**11am - 3pm
Wrigley Coffee**



**Next week: March 6-9, 2025 at the
Pasadena Convention Center
socallinuxexpo.org/scale/22x**

Use NIX50 for 50% Off



March 6th-7th, 2025 @ Pasadena, CA
at the Southern California Linux Expo (Mar 6th - 9th)

Actually, this is not
a git talk

YOU NEED TO LEARN HOW TO DEPLOY SOFTWARE

Even if you're doing dev



There's a lot to
cover, I'll post these
slides later

A solid orange vertical bar is positioned on the left side of the slide.

Deploying

Source Control

CI/CD

Live Demo

Why Deployment Matters

**Software doesn't
matter if it people
can't use it**

**We write
software for
people.**



Deploying **Source Control** CI/CD Live Demo

**What is source
control?**



Essentially:

Manage and keep track
of source code
changes.

and

Allow multiple people to
edit a file at the same
time.



git



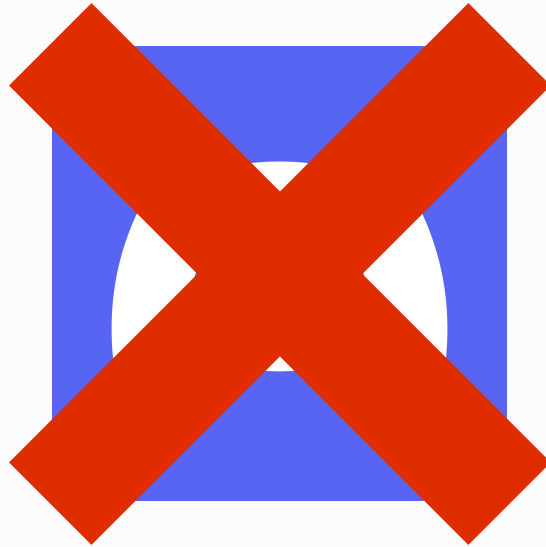
PERFORCE

Version everything.



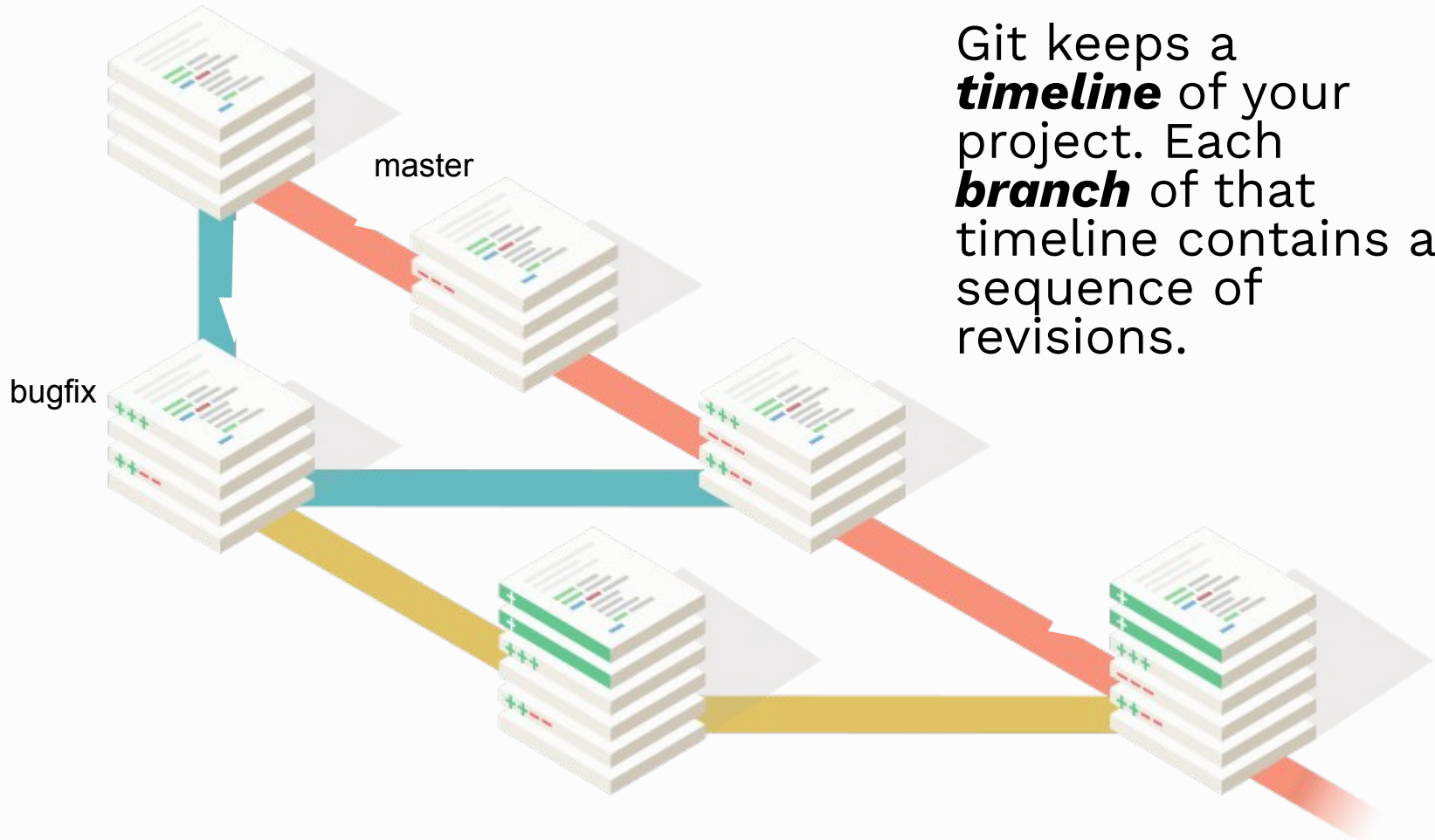
mercurial

**Don't paste code into
Discord**



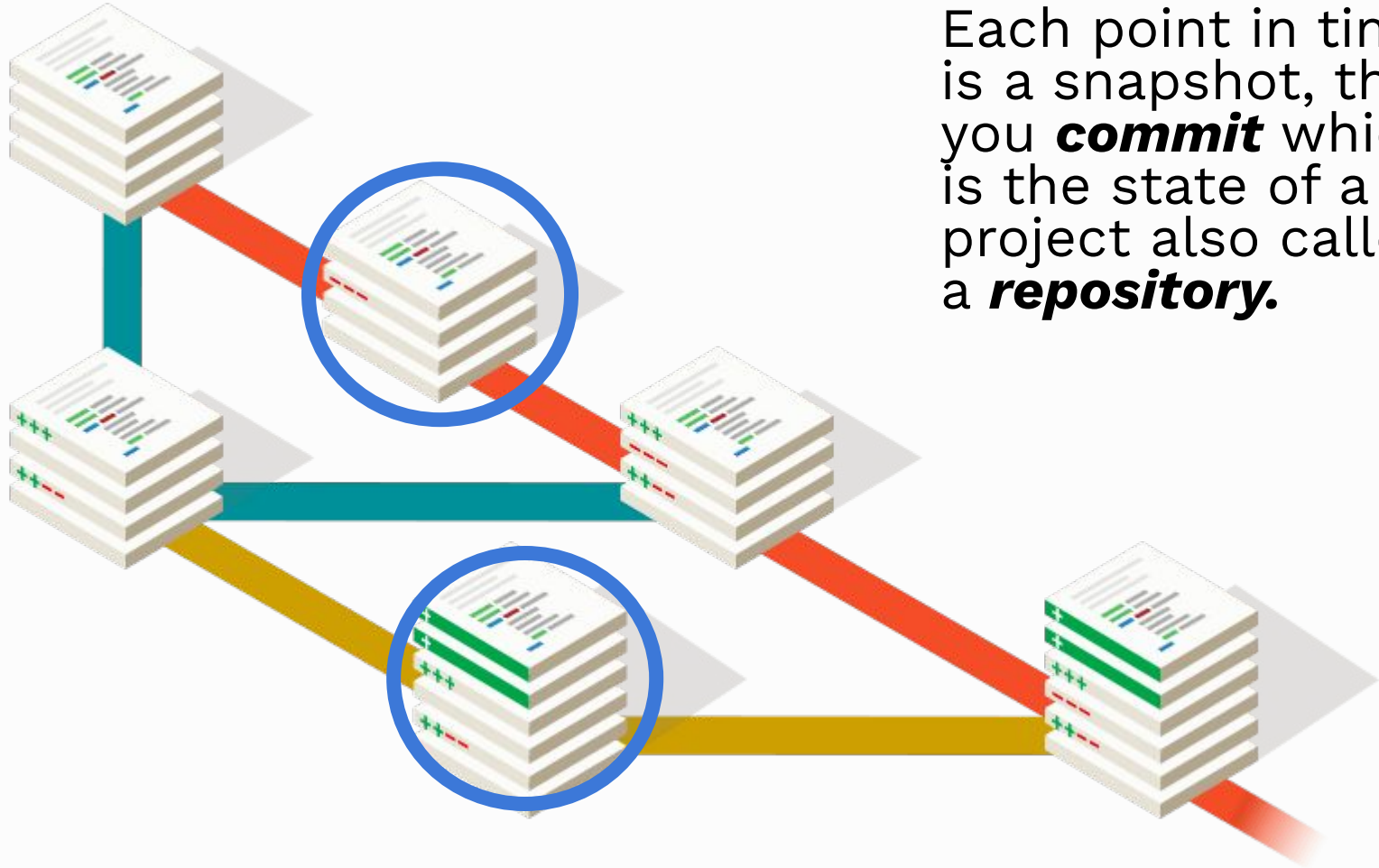
How does Git Work?



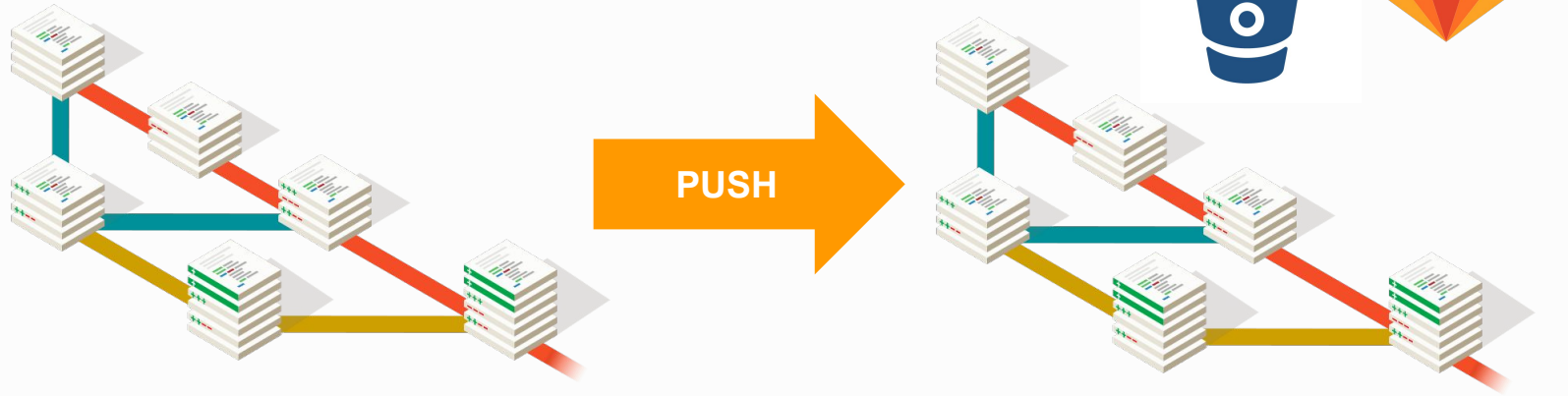


Git keeps a **timeline** of your project. Each **branch** of that timeline contains a sequence of revisions.

Each point in time is a snapshot, that you **commit** which is the state of a project also called a **repository**.



```
$ git push origin master
```



After committing locally, you **push** a branch (like ***master***) to a **remote** typically called ***origin***.

```
git init
```

```
git remote add origin git@davidme.de:me/demo.git
```

```
git pull origin master
```

```
git add code.cc
```

```
git commit -m "This is a clear commit"
```

```
git push -U origin master
```



Deploying Source Control **CI/CD** Live Demo

CI/CD

Continuous
Integration

Continuous
Delivery

Continuous
Deployment

Merge in
changes quickly

Ship software
often

Get it out
automatically

Building CI/CD
pipelines is a job
on its own

But other
services do it
for you



netlify



Fly.io



Automatic
processes allow you
to run tests and
other checks...

...so you can catch
them before it goes
out to production.

1. Deploy branch
2. Make Pull Request
3. Netlify makes a preview site
4. Review it
 - a. Make changes if needed
5. Merge
6. It get deployed

DEMO TIME

