

The background of the slide features a dark, hilly landscape under a hazy sky. A prominent peak rises in the distance, its top illuminated by a warm, golden light from the setting sun. The foreground consists of dark, rolling hills.

Open-Source

What is it?



Introduction

Contributors

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Introduction

Outline

- The meaning of open-source
- Open-source at your workplace
- How the open-source software eco-system works
 - Git
 - Collaboration
 - Access Control
 - Pull Requests
 - Forks
 - Licensees
 - Issues
 - Workflow
 - Common forking workflow
- How does open-source contributions look?
- But is it something for you?
- The good, the bad, the ugly and the noteworthy

The meaning of open-source



What can be open-source?

the sky is the limit

- open-source is a concept
- can be applied to everything
- not limited to software

However, we will focus on open-source software.

What is open-source?

- it's published on a public space
- enabled cooperation
- easily extendable and redistributable

Common fallacy's

- no control over your work
- open-source doesn't mean it's free
- it's not unsafe to use open-source

Open-source at your workplace

enable developers to work on open-source software

giving developers time during working hours to contribute to open-source benefits all

- every tech company uses open-source software
- technological exchange
- improved skills
- problem solving outside the tech stack
- apply inner-sourcing within the company

How the open-source software eco-system works

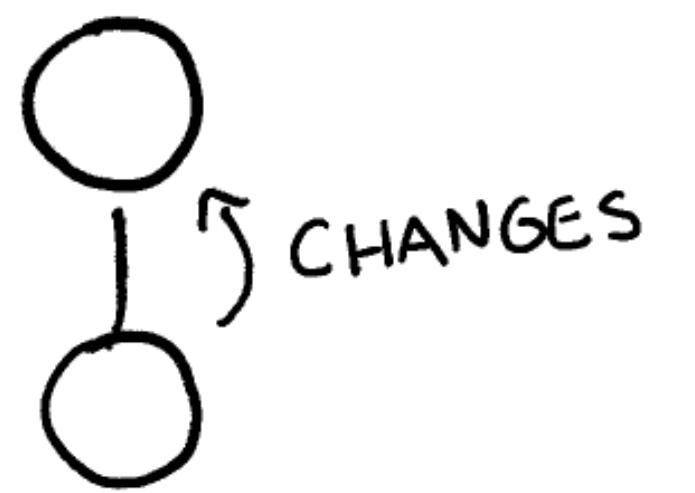
- Platforms for collaboration
 - Github
 - Gitlab
 - public instance Tor project
 - different project
 - Gitea
 - Codeberg e.V.
 - Azure DevOps
 - AWS CodeCommit
- all platforms use GIT as version control system



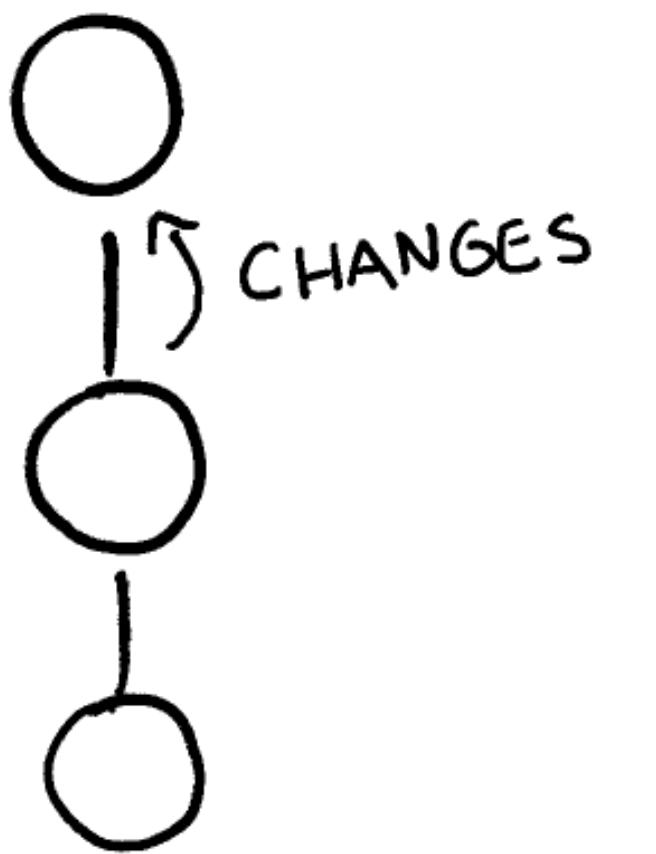
How it works

Software collaboration
with Git

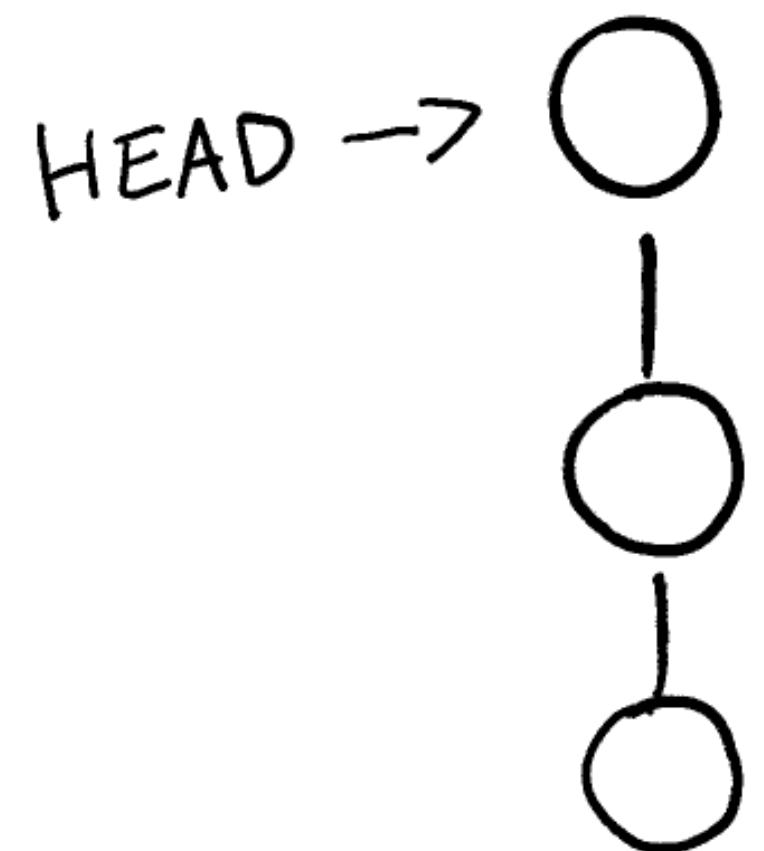


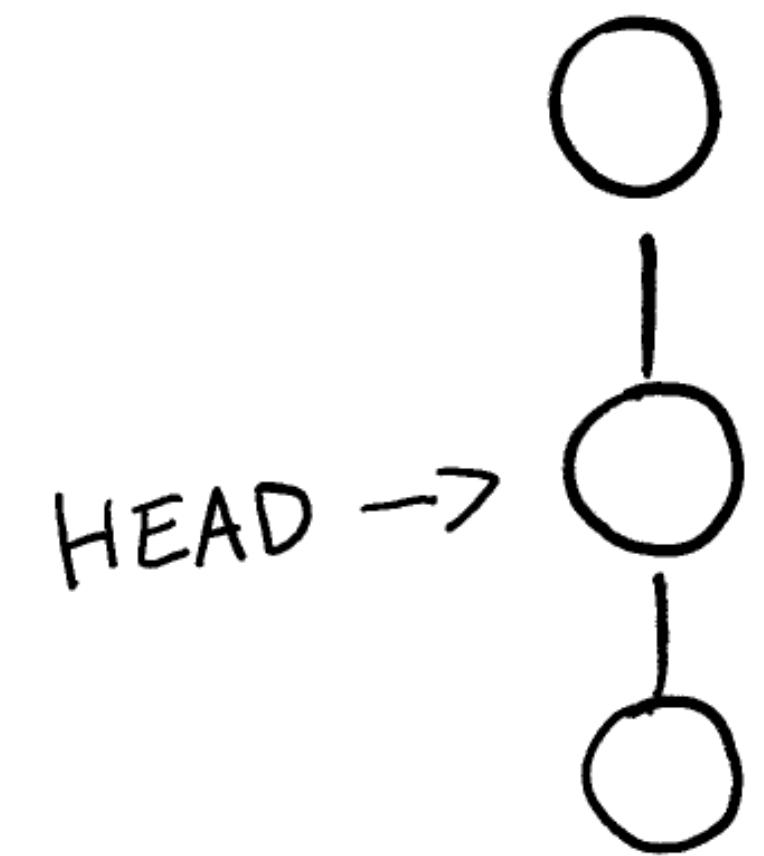


CHANGES

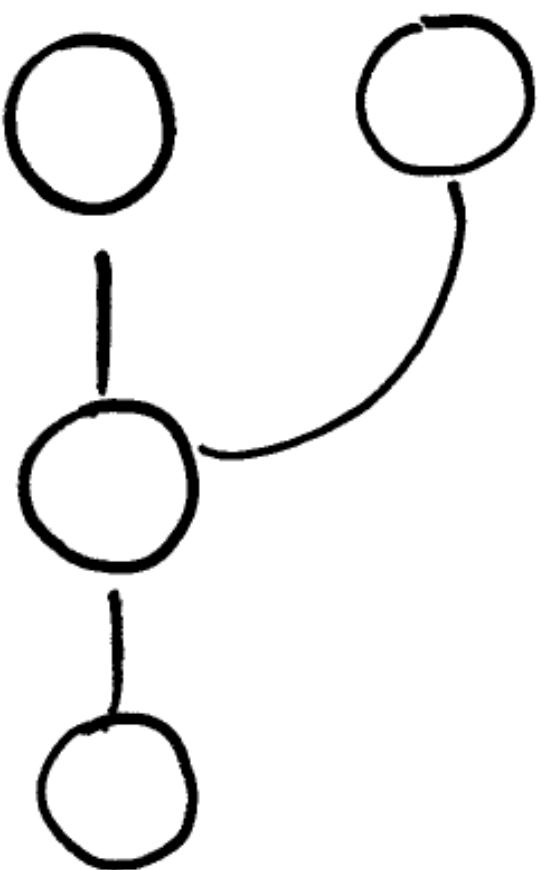






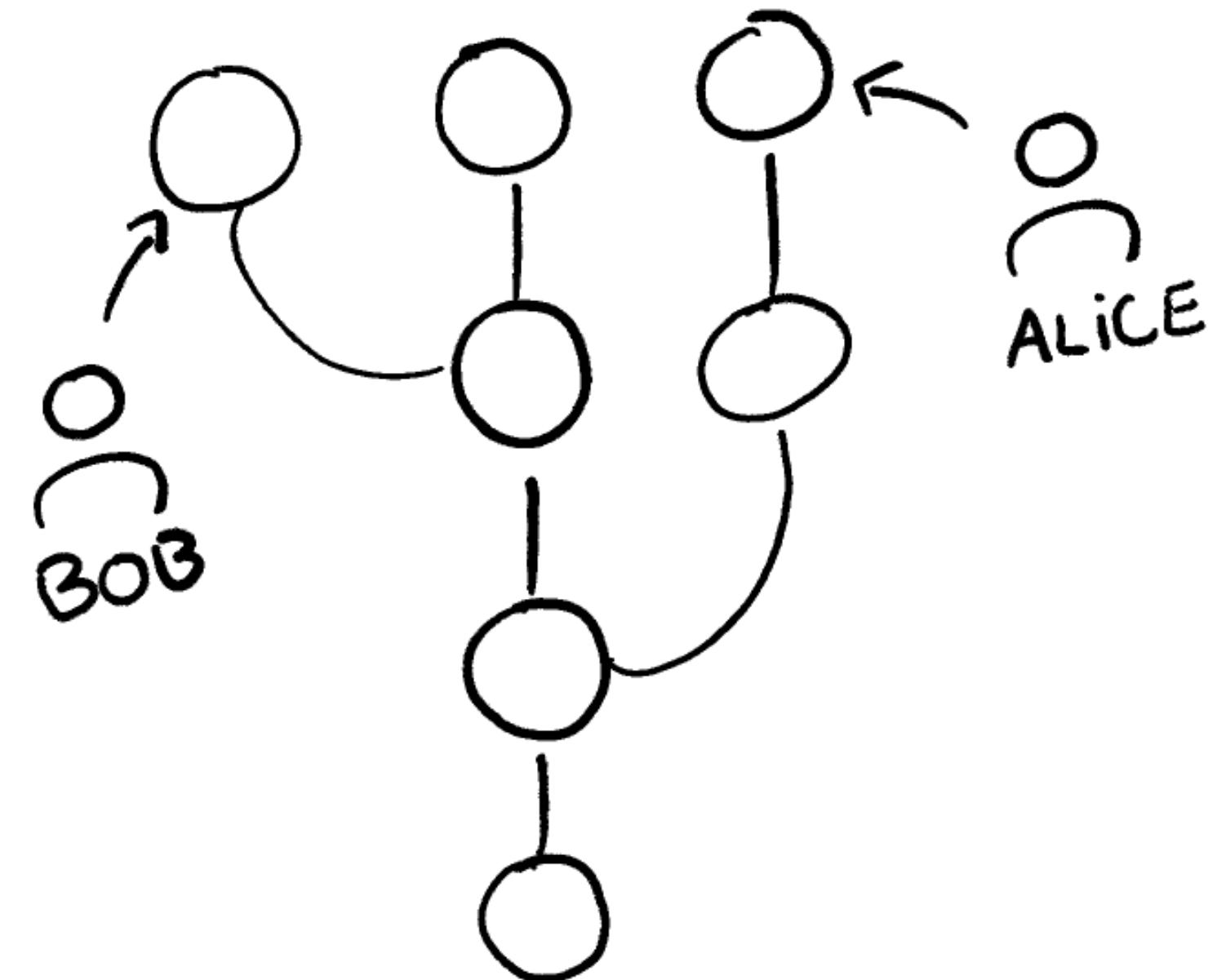


MAIN FEATURE



Collaboration

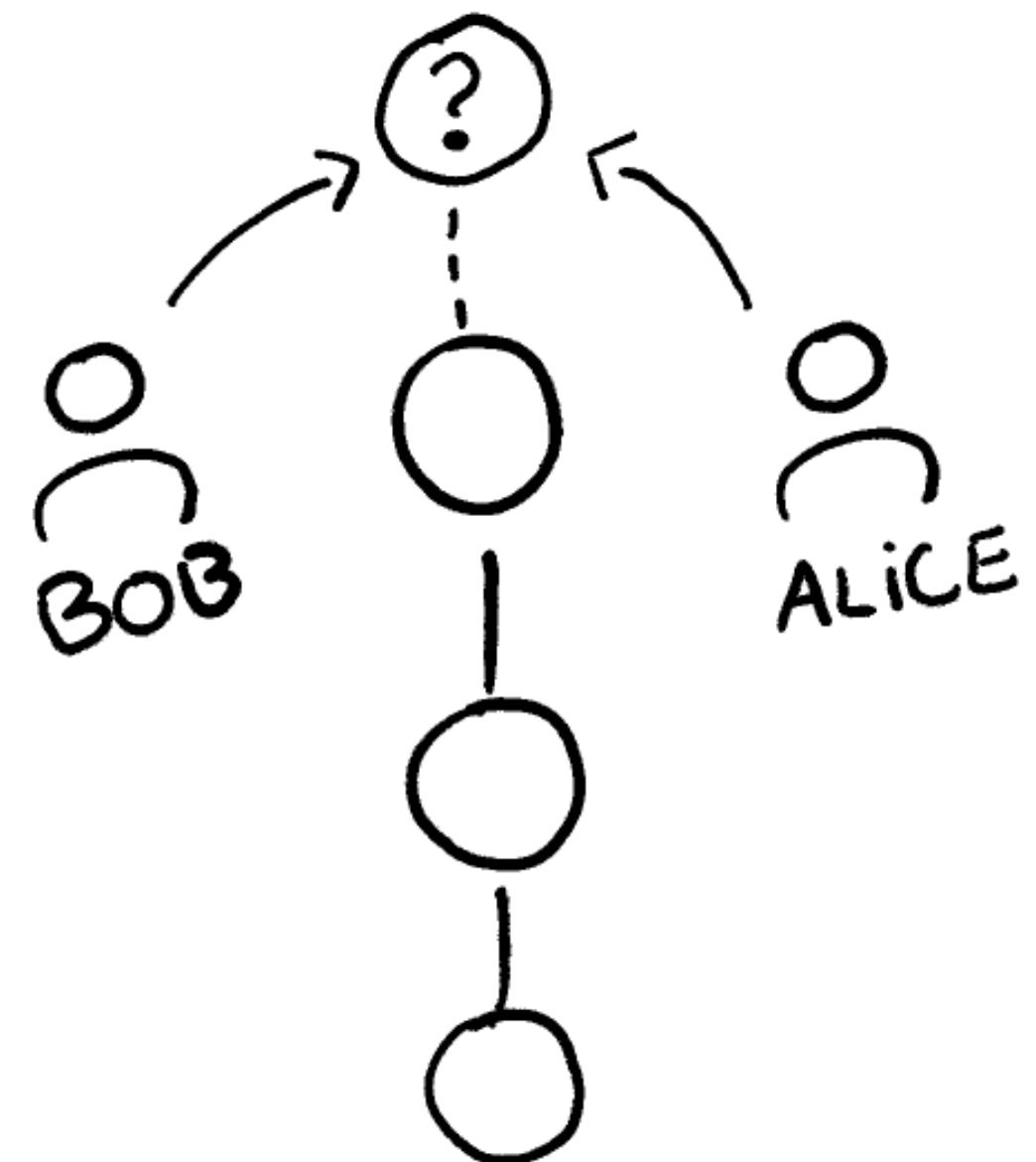


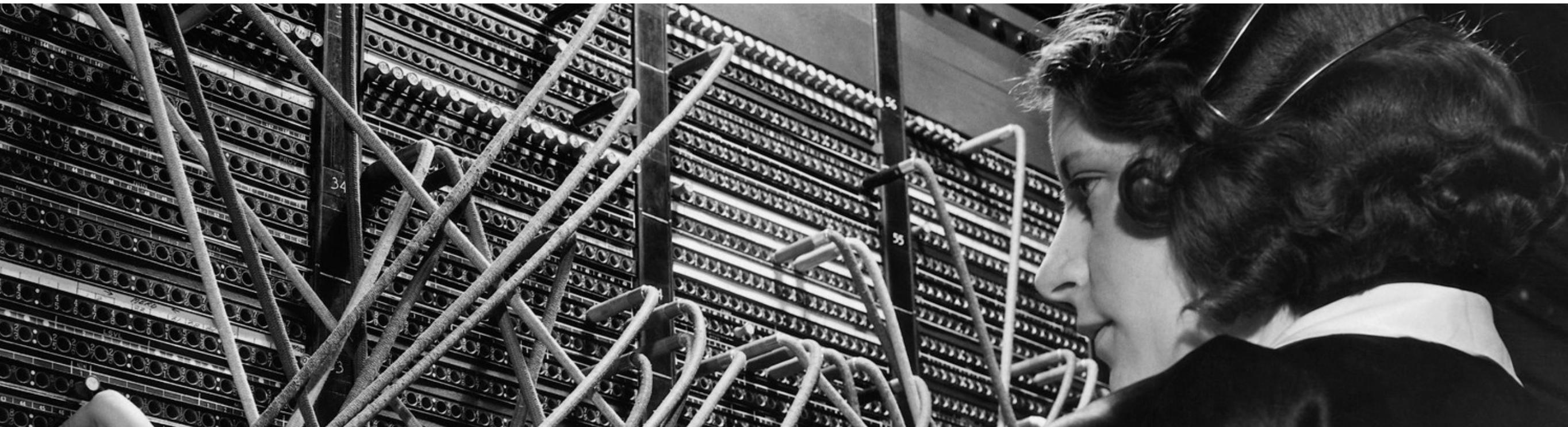




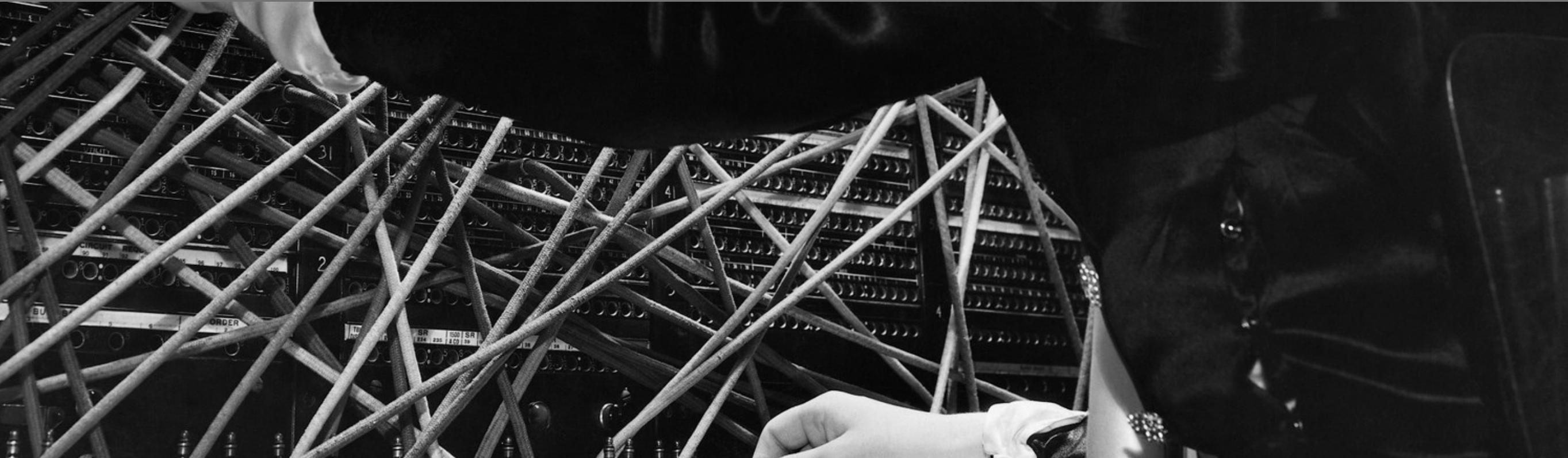
Access Control

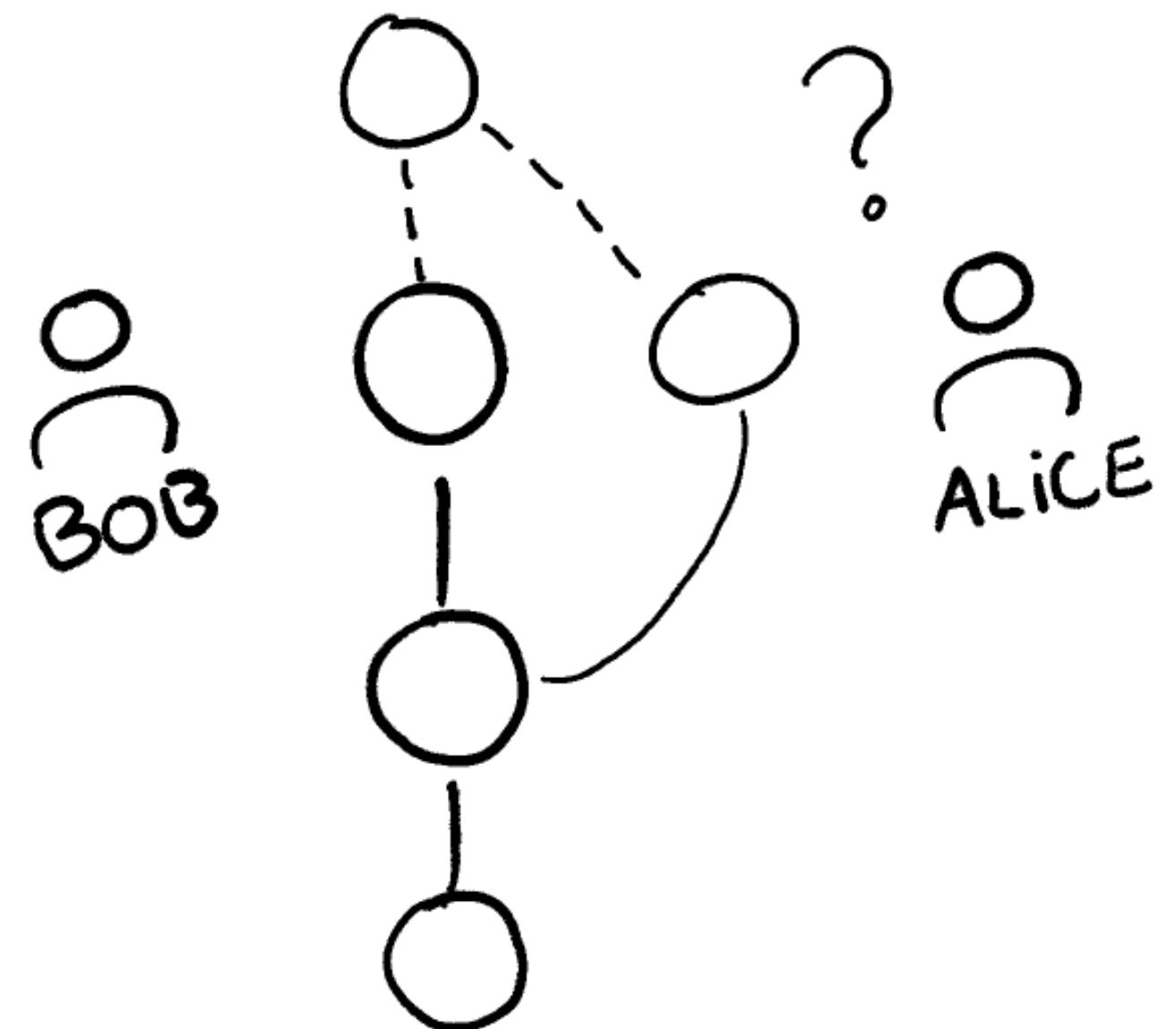






Pull Requests





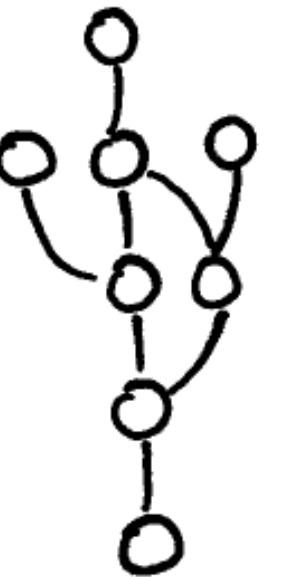


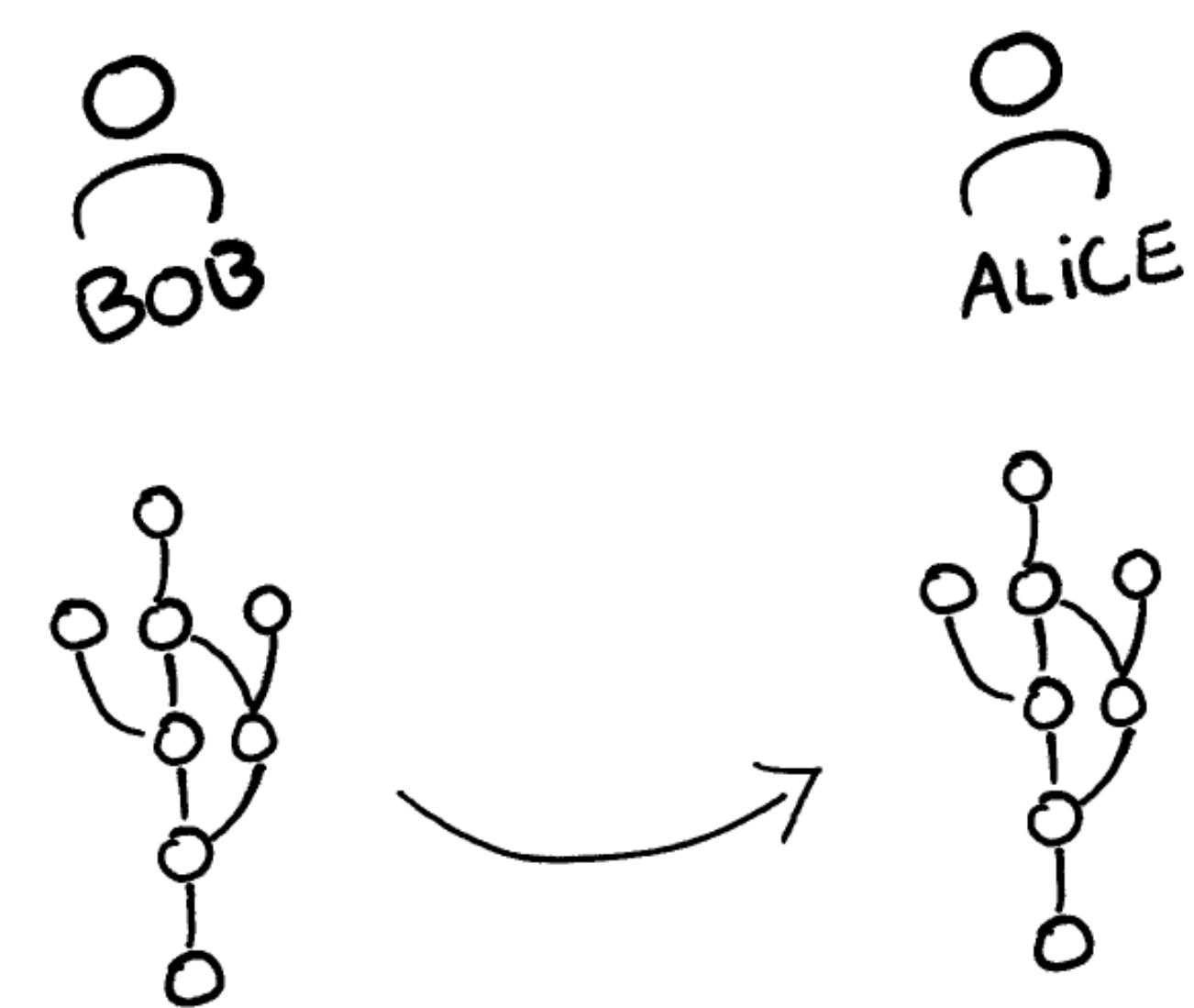
Forks





BOB







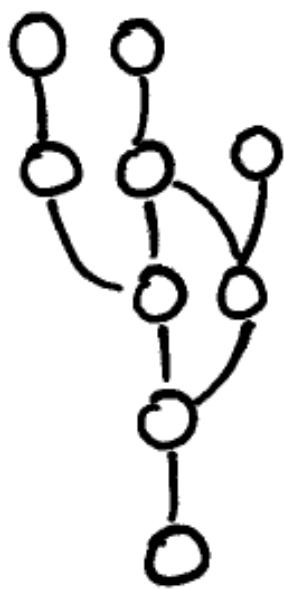
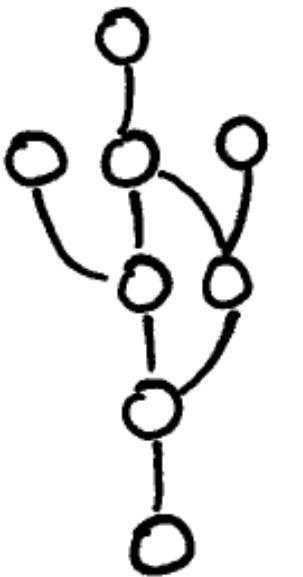
BOB

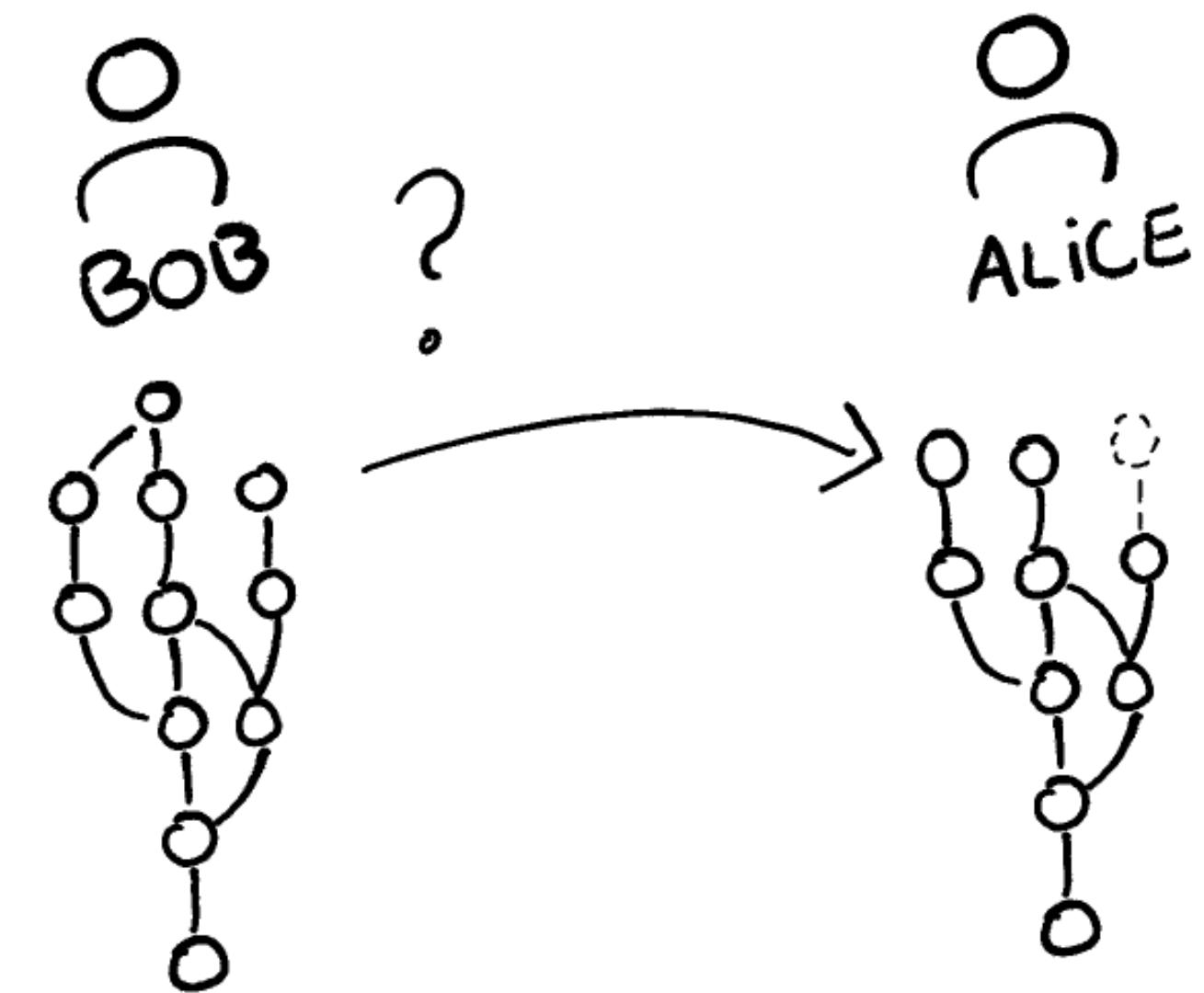
A hand-drawn diagram of a network graph. At the top is a small circle representing a node. Below it, several lines branch downwards to other circles, representing edges and connected nodes. The connections form a roughly triangular shape with some internal nodes.

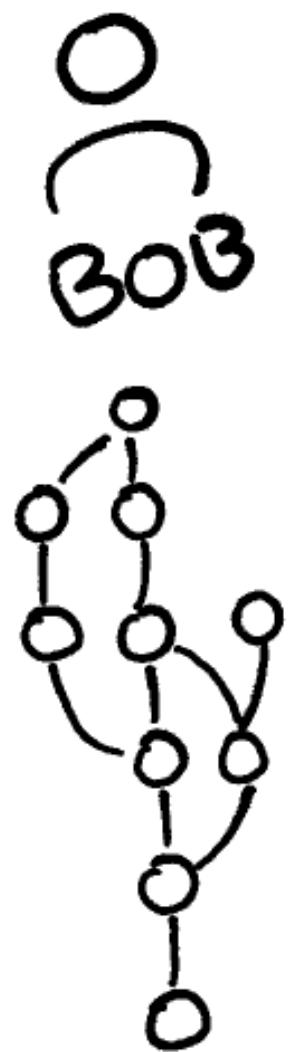


ALICE

A hand-drawn diagram of a network graph. At the top is a small circle representing a node. Below it, several lines branch downwards to other circles, representing edges and connected nodes. The connections are more vertical and less branched than Bob's diagram, forming a more compact structure.

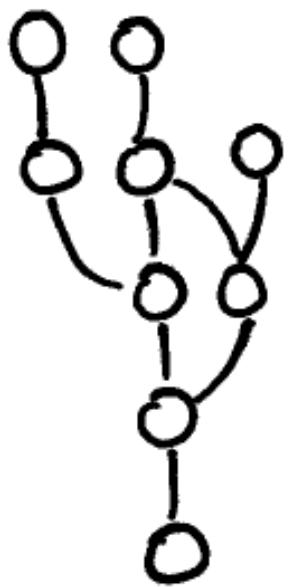


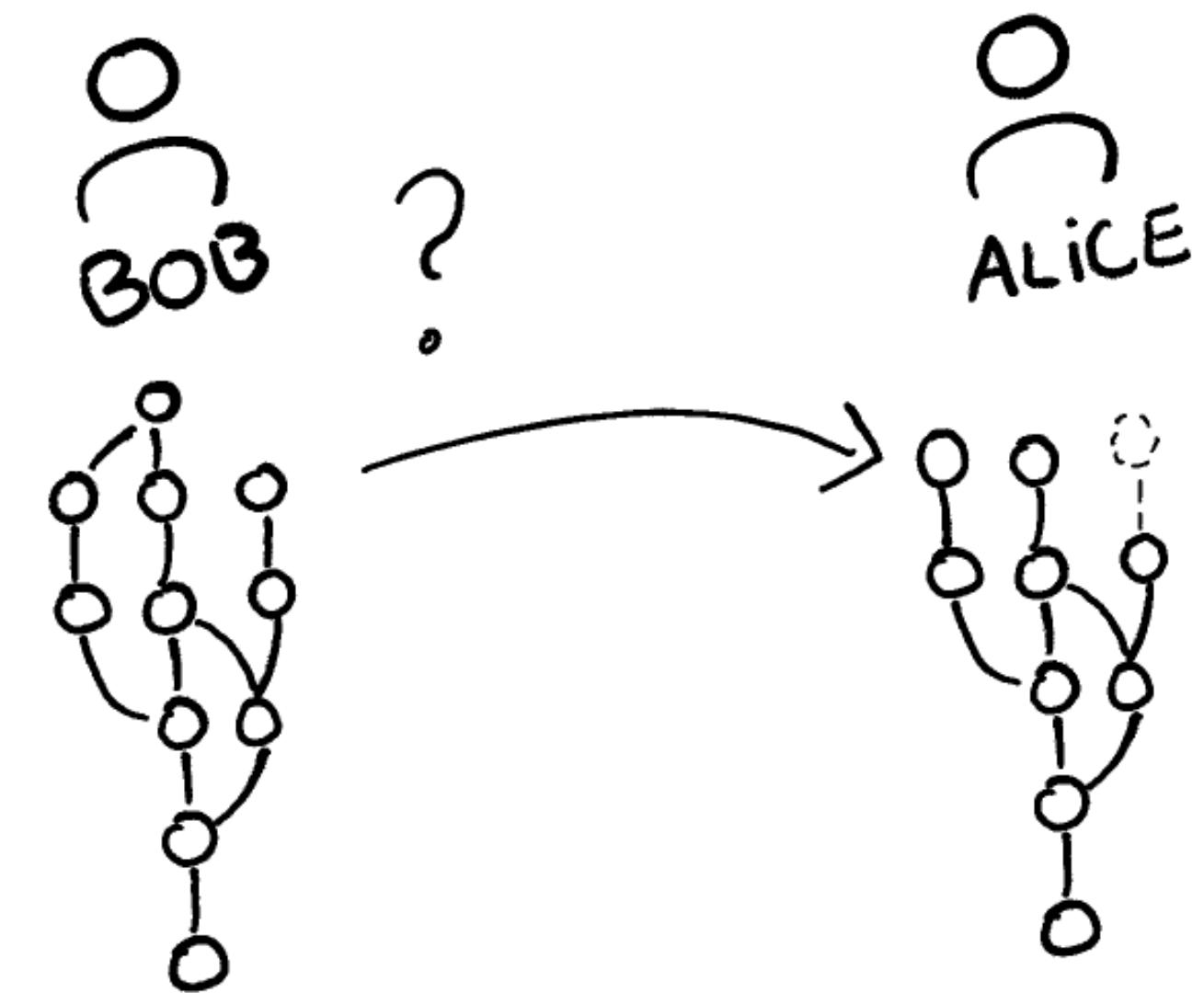




BOB

ALICE





Licenses

Common Licenses

- MIT
 - Do whatever you want with my stuff, just don't sue me
- GPL
 - If you change or distribute my code, you must provide the source under this license



Issues



Filters ▾		is:issue is:open	Labels 18	Milestones 0	New issue		
		Author ▾	Label ▾	Projects ▾	Milestones ▾	Assignee ▾	Sort ▾
<input type="checkbox"/>	① 38 Open	✓ 302 Closed					
<input type="checkbox"/>	① [combobox] allow to adjust textbox sync behavior on overlay close	enhancement			1		
	#1286	opened 14 hours ago by tlouisse					
<input type="checkbox"/>	① [form-core] document isTriggeredByUser for model-value-changed event	docs good first issue			1		
	#1285	opened 15 hours ago by tlouisse					
<input type="checkbox"/>	① [form] Allow .invalid prop on form(group)						
	#1283	opened 2 days ago by tlouisse					
<input type="checkbox"/>	① [textarea] CSS warnings				3		
	#1252	opened 21 days ago by remcovae					
<input type="checkbox"/>	① [providence] - improve performance extend-docs						
	#1245	opened 28 days ago by tlouisse					
<input type="checkbox"/>	① ing-form - inconsistent behaviour for dirty flag	bug					
	#1241	opened 29 days ago by tush					
<input type="checkbox"/>	① [Comobox]: ShowAllOnEmpty property doesn't work on focus	enhancement			1		4
	#1226	opened on 17 Feb by akhudiakov97					
<input type="checkbox"/>	① [comobobox]: Registration could not finish when used in dialog	bug			1		5
	#1216	opened on 15 Feb by palash2601					
<input type="checkbox"/>	① [switch-button] diff in synchronously updating .checked vs [checked]	bug					
	#1211	opened on 11 Feb by tlouisse					

Workflow



Contribution Steps

- Check CONTRIBUTING.md
- Check issues
- Communicate with the maintainer
- Fork the repository
- Make a merge request

common forking workflow

Following these simple steps to setup your fork correctly!

- fork the project
- clone the forked project from your namespace
- add a reference to the forked project
- add tracking of the default branch
- use branching strategy you prefer

```
# clone
git clone [your-namespace/project-name]
# reference the original/forked repository
git remote add upstream [project-name]
# update the git refs
git fetch --all
# add a tracking branch to the default branch
git branch -u upstream/[default-branch]
```

Experience with open-source

This is all very nice and really abstract, but how does it actually look?

- todo mvc
- gitea improvement
- open-wc codelabs
- typo fix
- add DX feature

But is it something for you?

The most important question of them all

- you stumble across a problem
- you **want to fix it**, because
 - you are annoyed
 - you need to fix it to continue your work
 - you like fixing things
 - you are excited about the project
 - you think it can look good on your CV
- you stumble across a problem
- you **don't want to fix it**, because
 - somebody else will do it
 - it's not that big of a deal
 - you just don't care that much
 - it doesn't block your current work
 - you just don't use it
 - not updating to the latest version of the package
 - change the framework
 - build a workaround

The good, the bad, the ugly and the noteworthy

Where there is light, there must be shadow.

The good

learning and experience

- knowledge sharing
- learning from open source repositories
- helping and improving other projects with your expertise
- broaden the perspective
- satisfying to do
- get inspired
- use code-review clubs to reduce complexity

The bad

difficult and time consuming

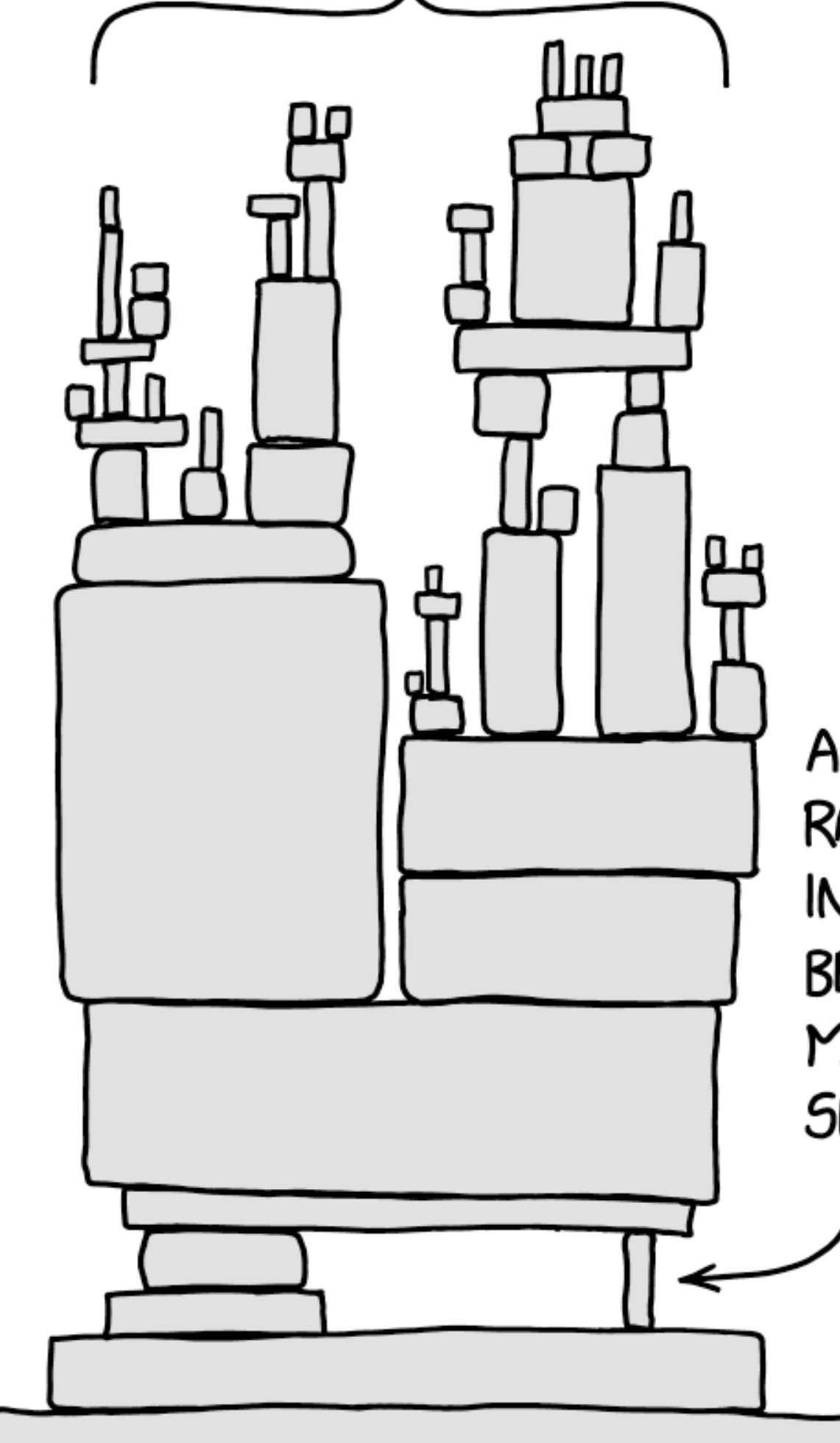
- very time consuming
- slow
- requires persistence
- steep learning curve
- chat-like discussions are difficult
- good first issues requires a lot of knowledge

The ugly

Welcome to the dark side of open-source software

- low payment for contributors
- log4j
- color.js, faker.js

ALL MODERN DIGITAL INFRASTRUCTURE



The noteworthy

This is good to know

- nlNet foundation
 - financially supporting organizations and people that contribute to an open information society
- Bug bounty program 2022 of the European Commission Open-Source Software strategy
 - an amount of EUR 200,000 was funded by the European Commission Open Source Programme Office (EC OSPO) to focus again on the security of open source software widely used by public services.
- EU open source policy summit 2022
 - February 4
 - Open Source & the Grand Challenges
- FOSDEM 22
 - 5 & 6 February 2022
 - Every year, thousands of developers of free and open source software from all over the world gather at the event

Resources

<https://xkcd.com/2347/>

END