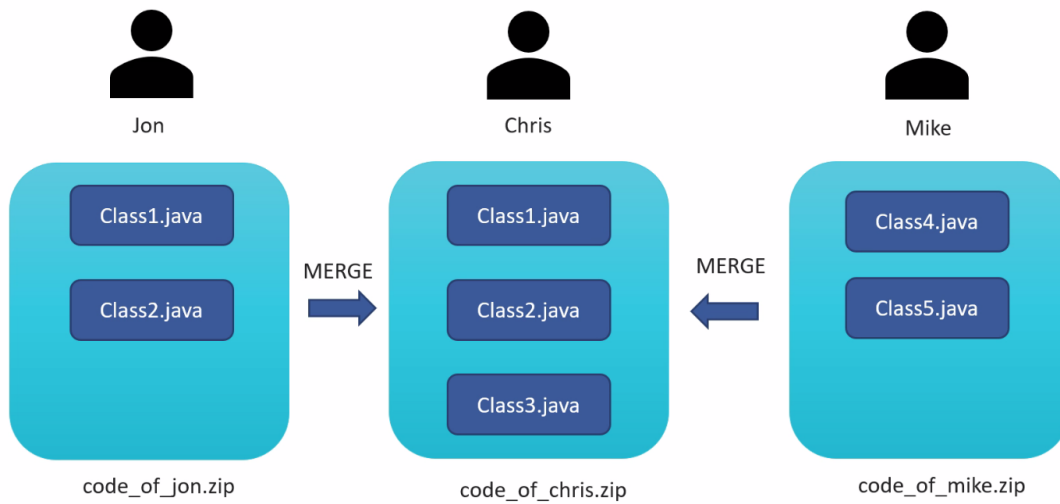## AGENDA

Today we will learn:

- Version Control Systems - Overview
- The most popular VCS
- Git - Overview
- Git - Main features
- How git operates
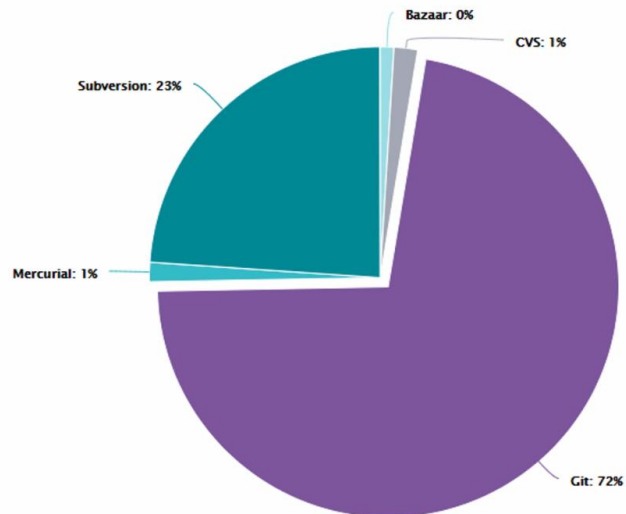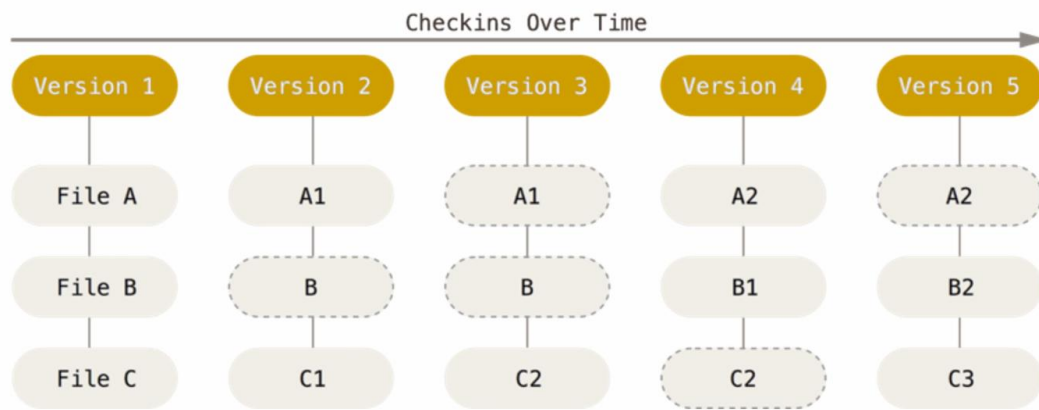
Version Control Systems

Version Control Systems

Jon — code_of_jon.zip (Class1.java, Class2.java)
Chris — code_of_chris.zip (Class1.java, Class2.java, Class3.java)
Mike — code_of_mike.zip (Class4.java, Class5.java)

MERGE → Chris ← MERGE

Version Control Systems - Popularity

Bazaar: 0%
CVS: 1%
Subversion: 23%
Mercurial: 1%
Git: 72%

Snapshots in Git

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

Hash

```
commit 46f0f54deca28962f61d4ab1af93843989001b4c
Author: Andrii Piatakha <                              >
Date:   Sun Sep 20 01:43:12

    Solution for EXAM task - online shop
```
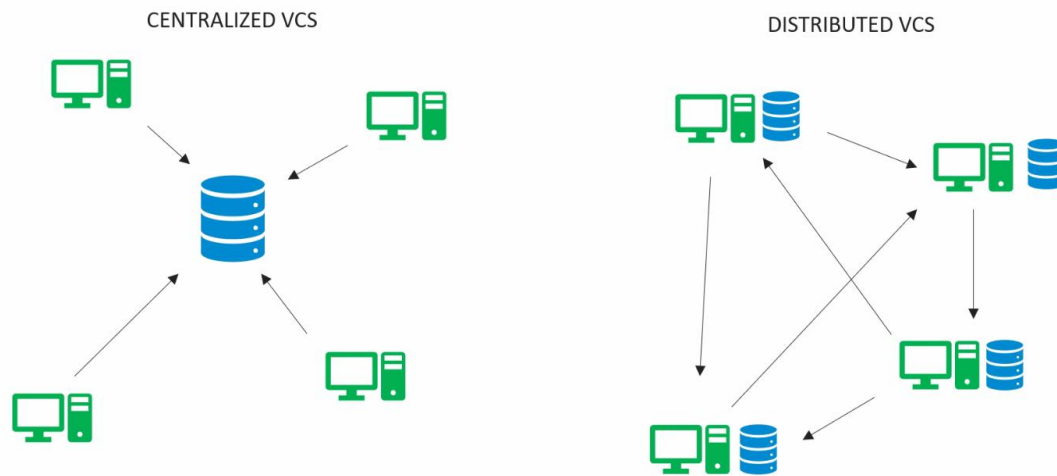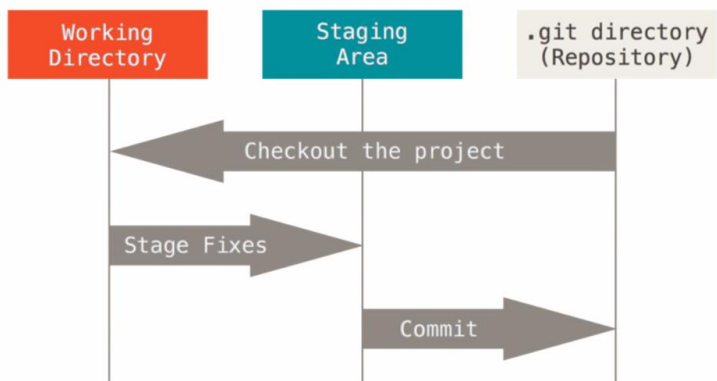
Centralized VS Distributed VCS

CENTRALIZED VCS

DISTRIBUTED VCS

Git Basics

GIT WORKFLOW

BASIC INTERACTIONS

- Do changes

- Add file to staging area

- Commit changes

Working Directory → Staging Area → .git directory (Repository)

Checkout the project

Stage Fixes

Commit