# CSC207 Tutorial 1

# some info about me

- my name is York
- 4th year undergrad in CS
- **experience:** web dev (Next.js, Node.js, Angular, Django), ML applications (RAG, CV), DevOps
- **research interest:** multilingual NLP (cross-lingual transfer)
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# lab overview

- Git, IntelliJ basics
- Reading Java code
- Refactoring FizzBuzz
- Writing your own code!

# get into teams!

(at least, for this week)

# software installation checklist

- Git
- create a GitHub account
- Java (JDK 17)
- IntelliJ: your Java IDE - the community edition is fine.
  - link your GitHub account to Intellij

# lab overview

- **Git, IntelliJ basics**
- Reading Java code
- Refactoring FizzBuzz
- Writing your own code!

# git basics

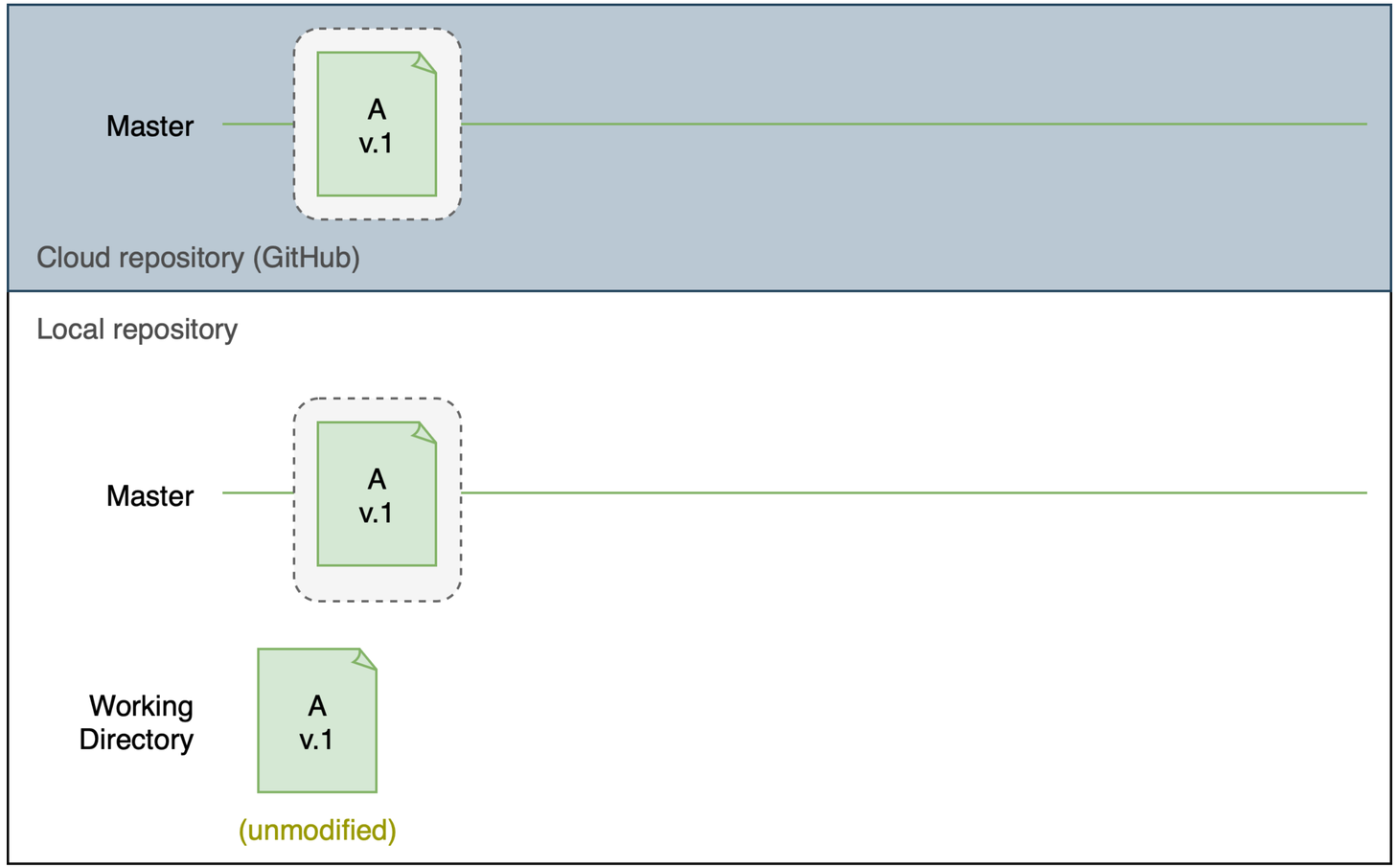
Key concepts:

- **Repository:** a database of the project’s files and history
- **Branch:** a timeline / linked list of commits
- **Commits:** a snapshot of your project

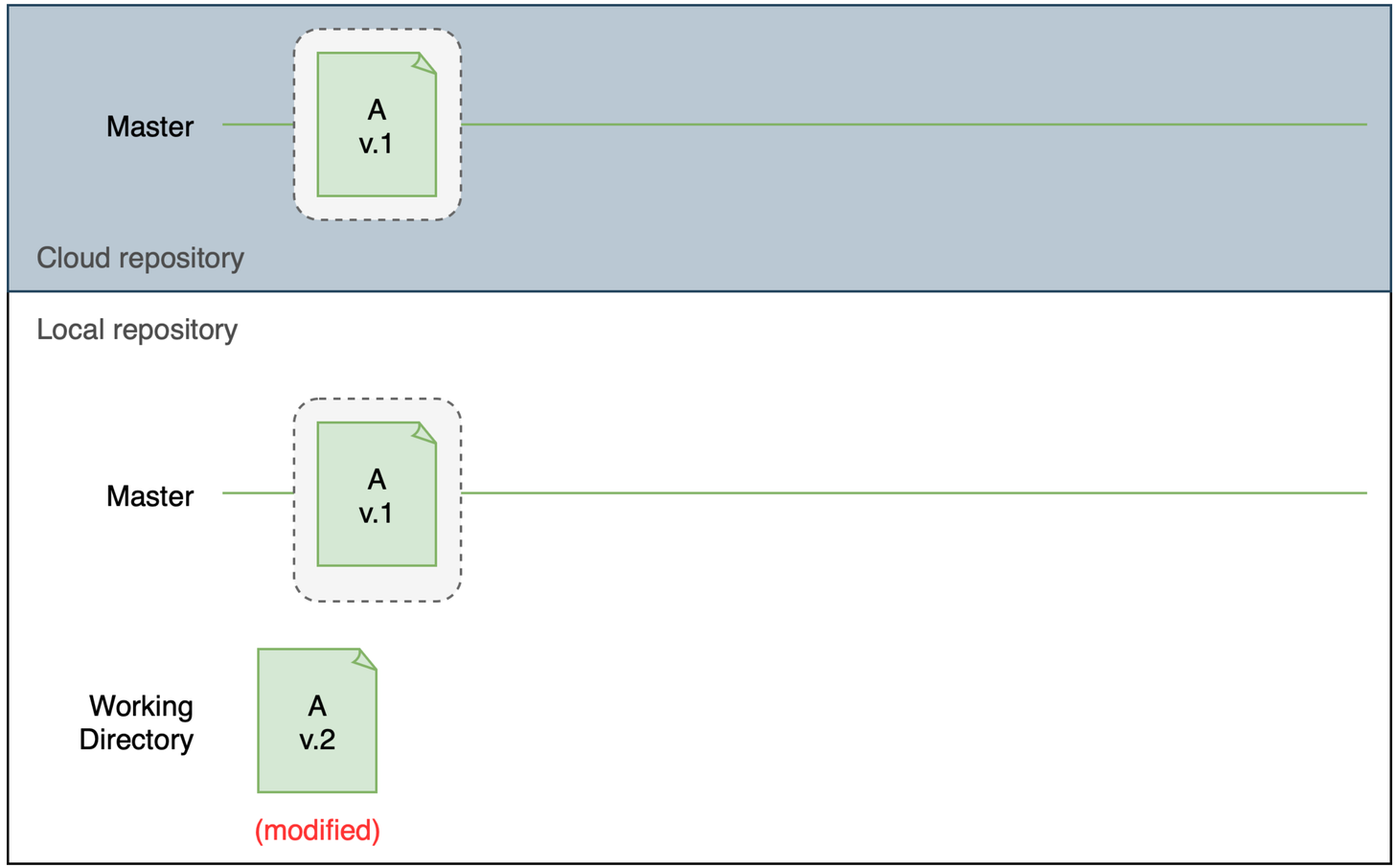
# git basics

# git basics

## git clone <repository url>

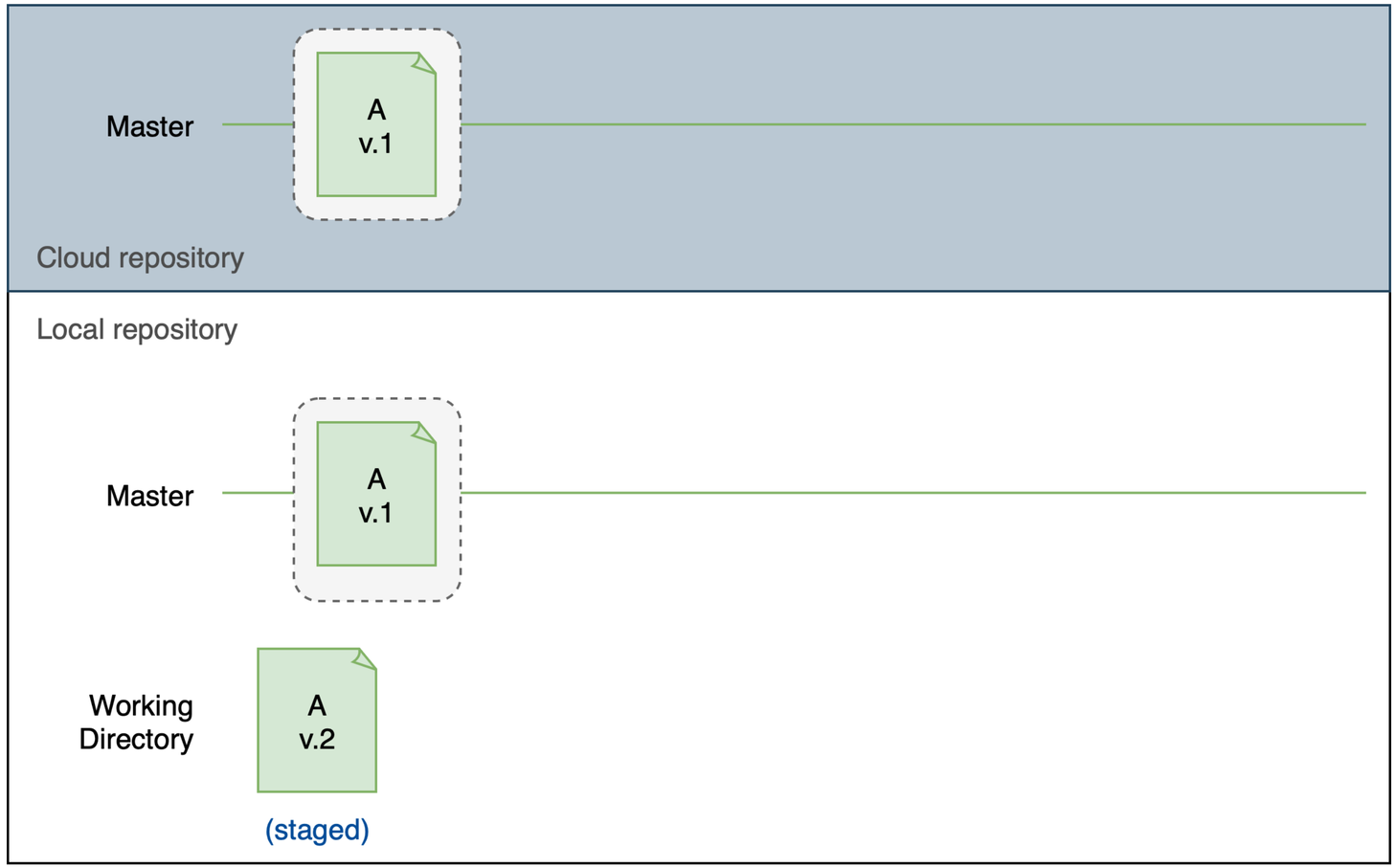


# git basics


Master
A
v.1
Cloud repository
Local repository
Master
A
v.1
Working
Directory
A
v.2
(modified)

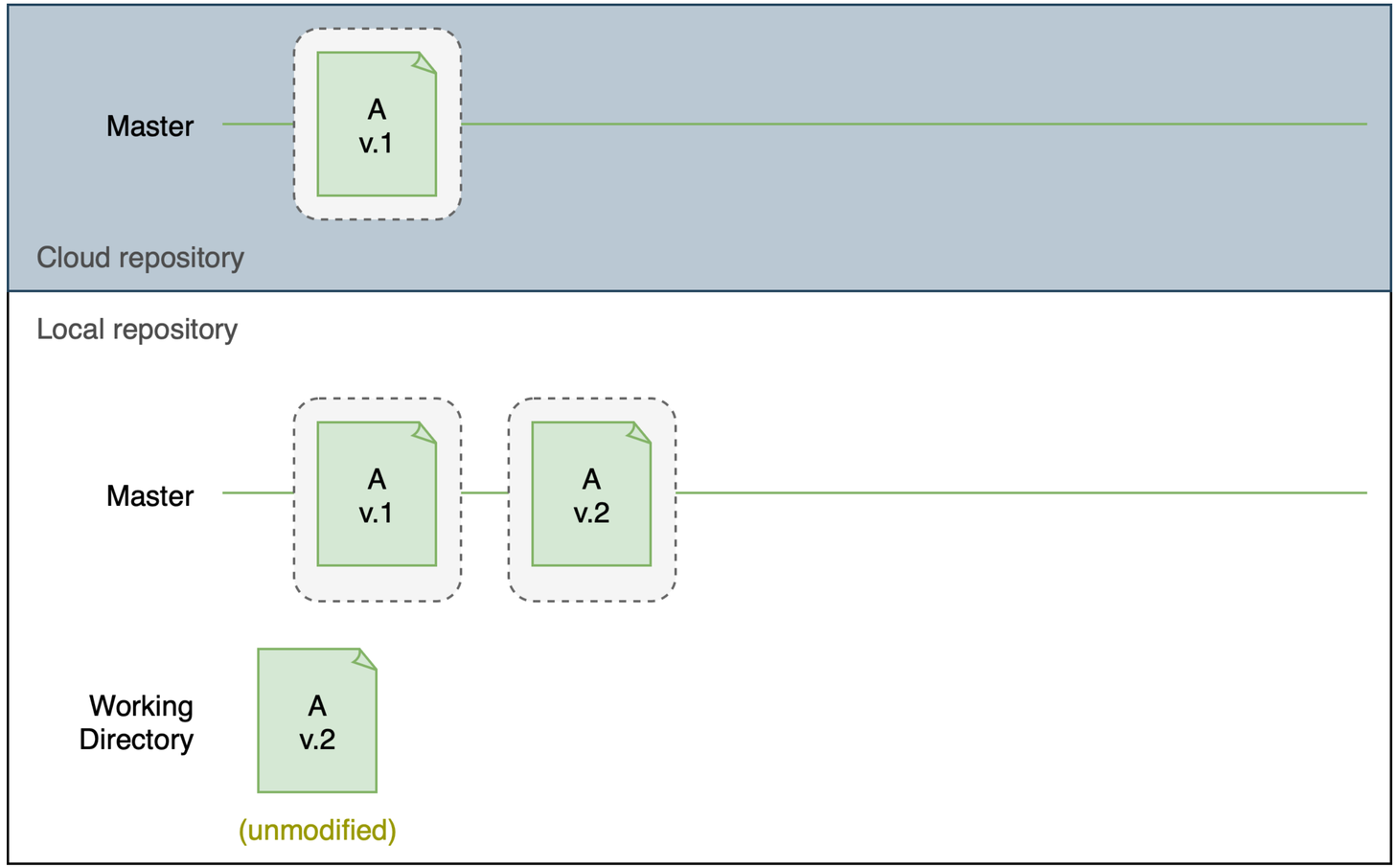
# git basics

## git add <filename>



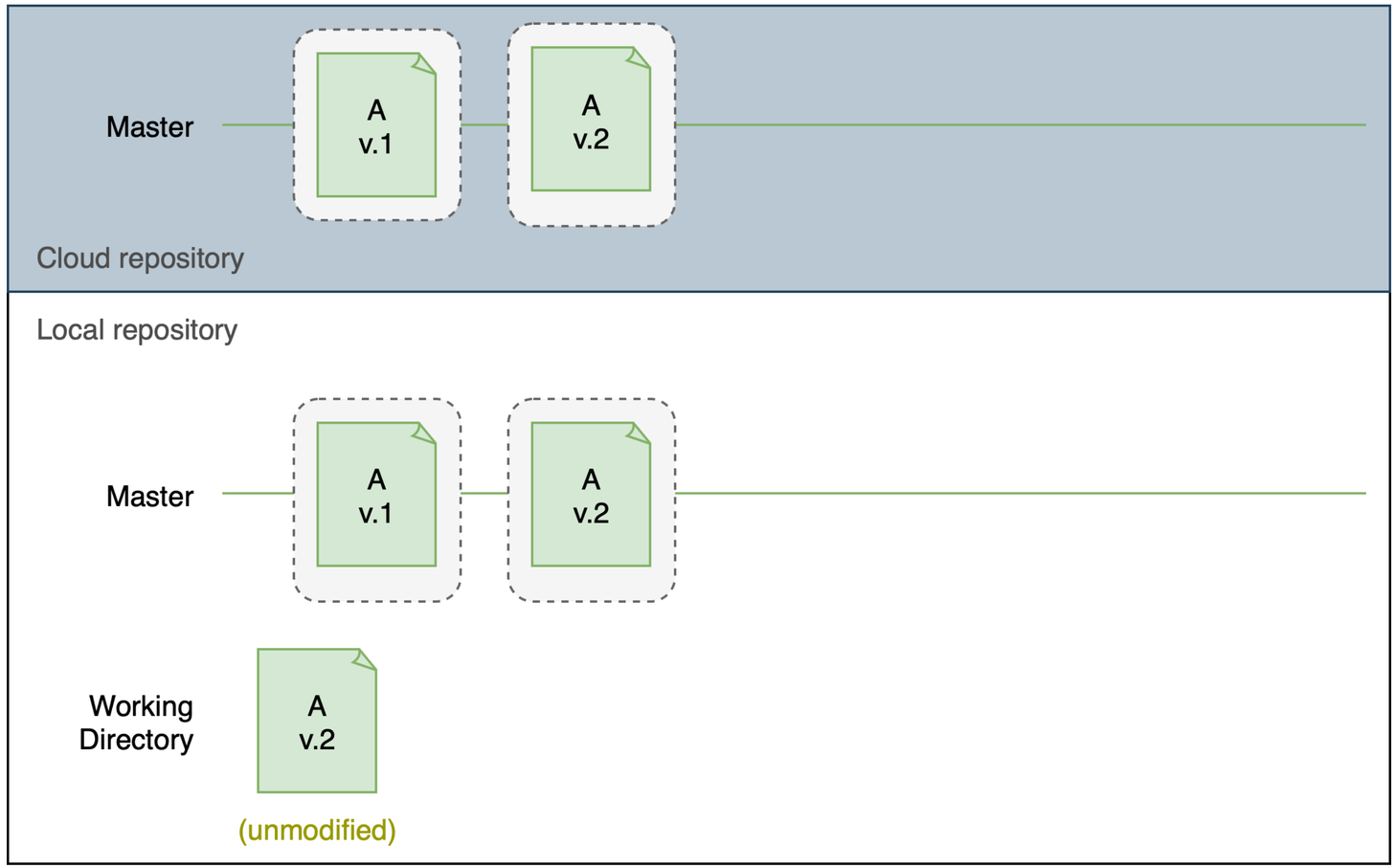
# git basics

## git commit -m <message>



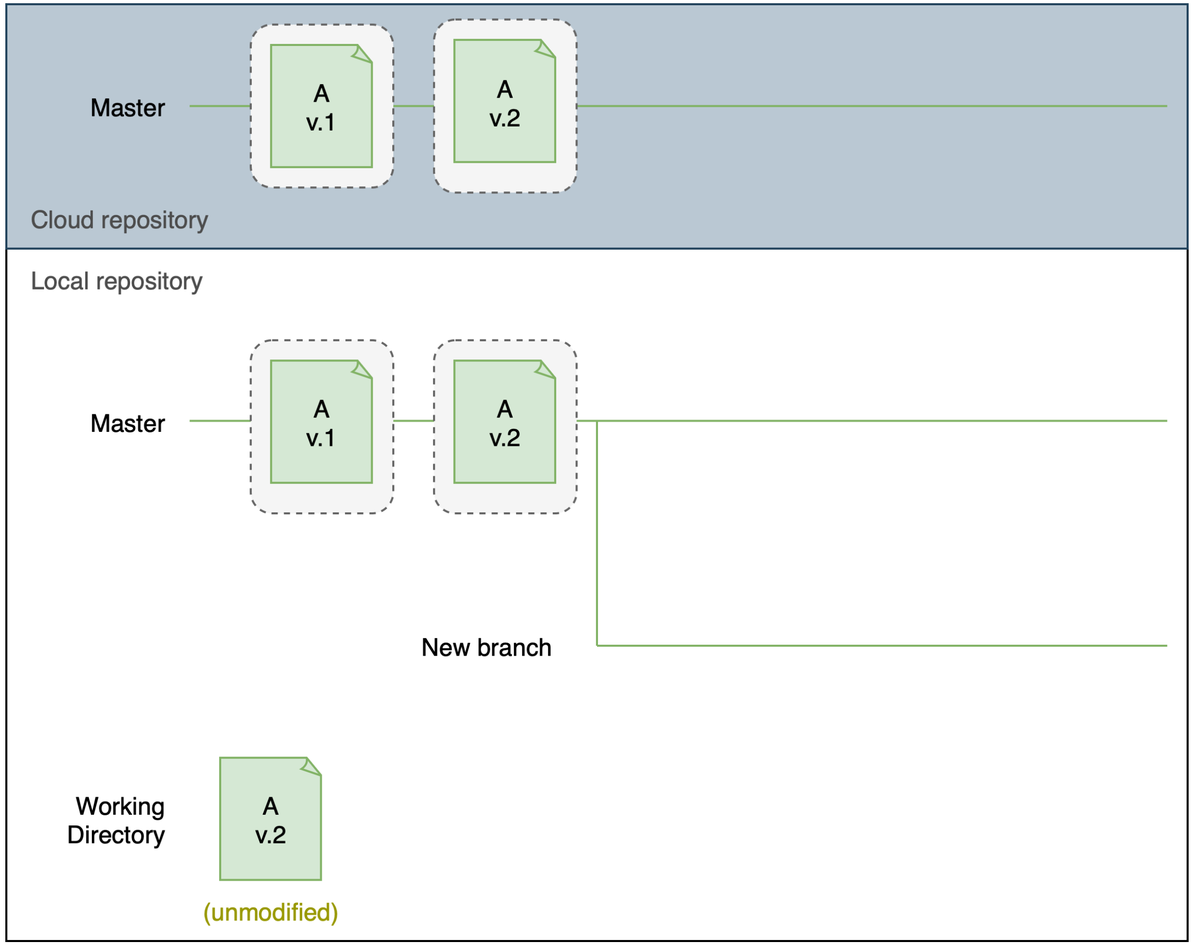
# git basics

## git push

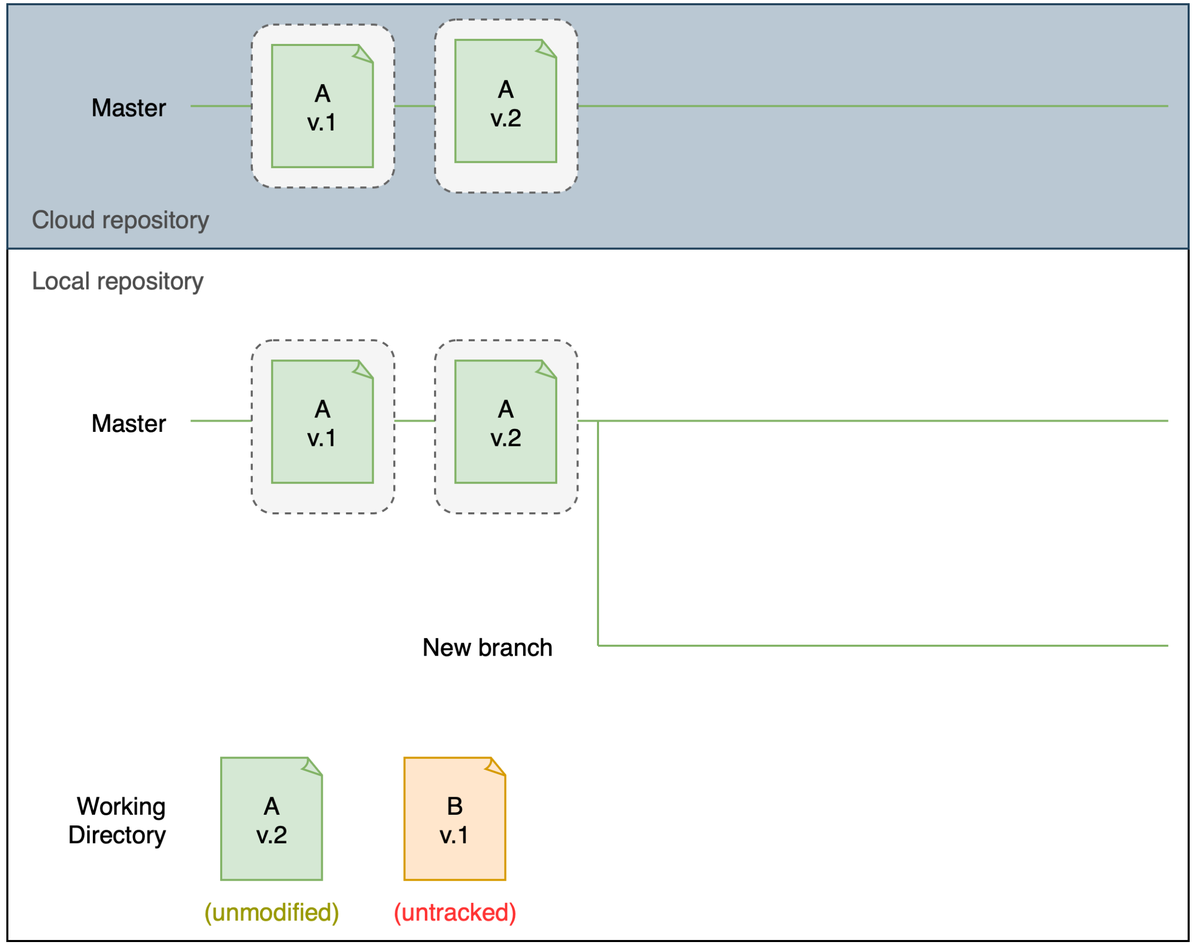


# git basics

## git branch -b <name>

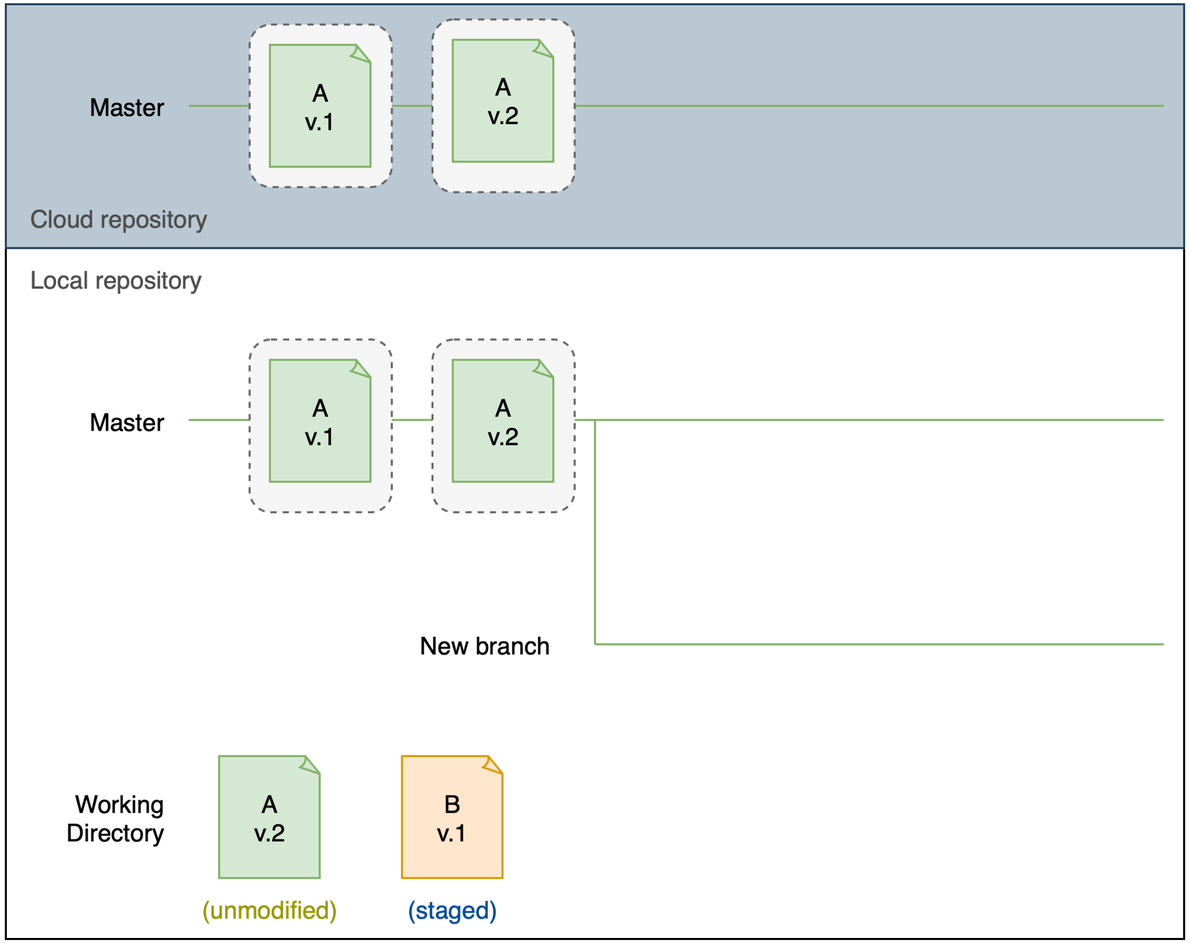


# git basics


Master
A
v.1
A
v.2
Cloud repository
Local repository
Master
A
v.1
A
v.2
New branch
Working
Directory
A
v.2
B
v.1
(unmodified)
(untracked)

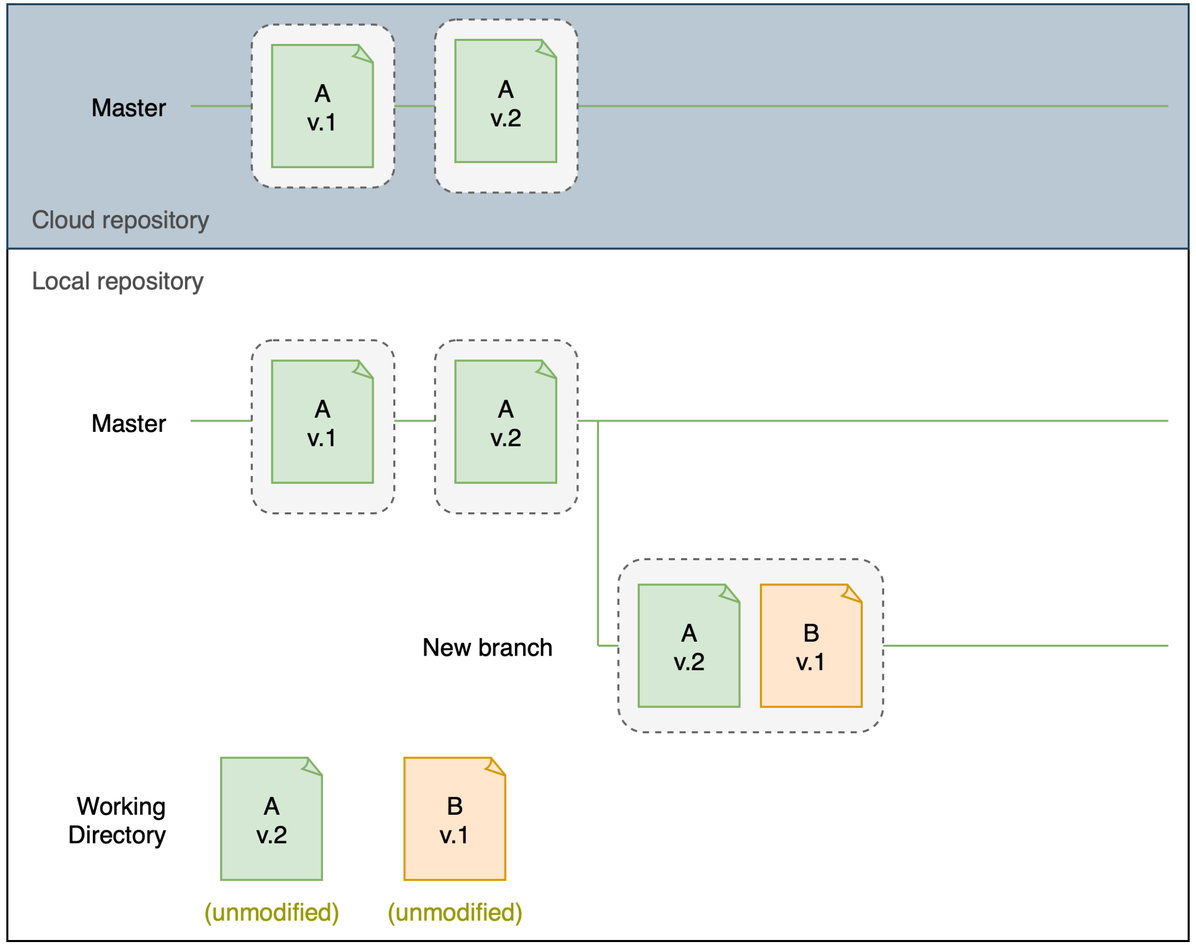
# git basics

## git add <filename>



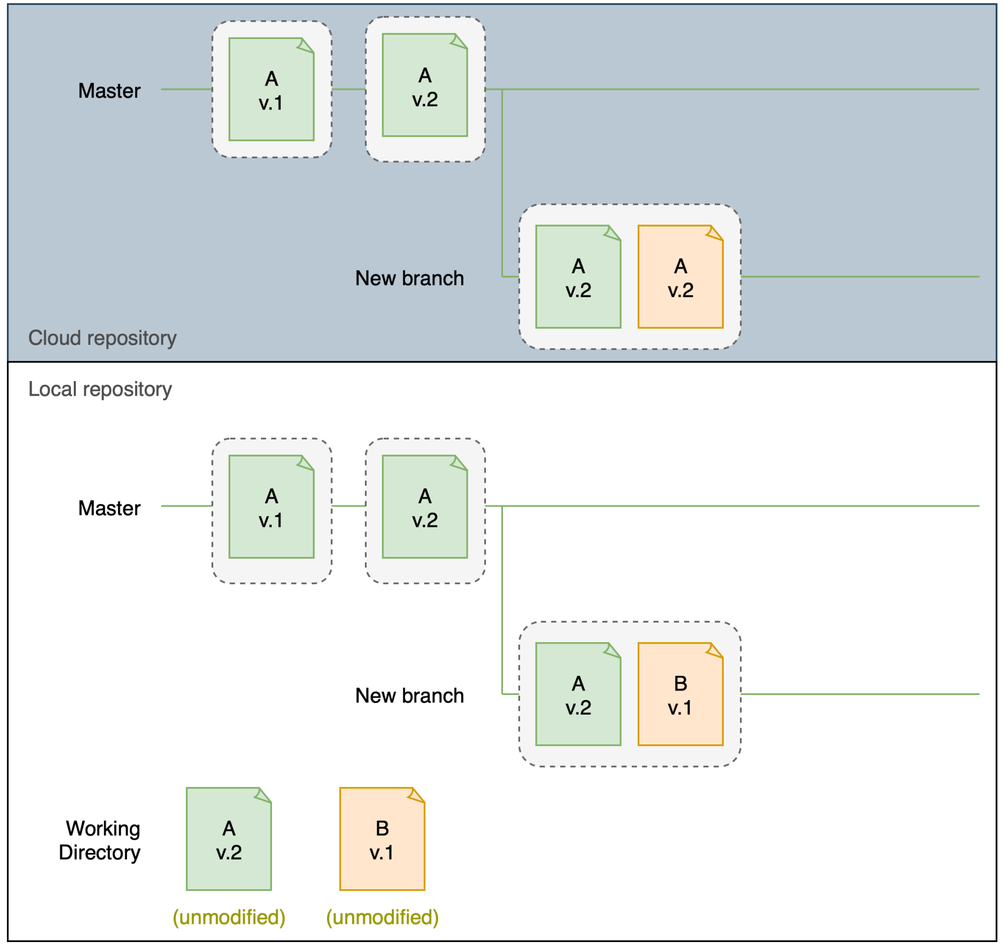
# git basics

## git commit -m <message>



# git basics

## git push



# git basics
## overview

Follow the stage -> commit -> push cycle

**Key commands:**

- git add <filename>
- git commit -m <message>
- git push
- git branch -b <name>
- git status

# Task 0

- Fork the Lab1 repo on GitHub
- Clone the repo locally onto IntelliJ
- What are some syntactic differences between Java and Python?