1-Git intro (co-007)

Git_Lesson1
Training Clarusway
Pear Deck - July 3, 2021 at 9:14AM

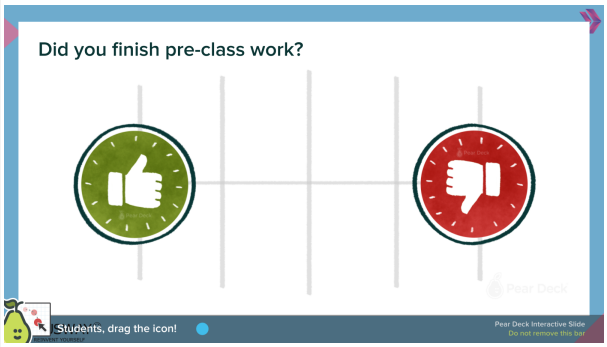
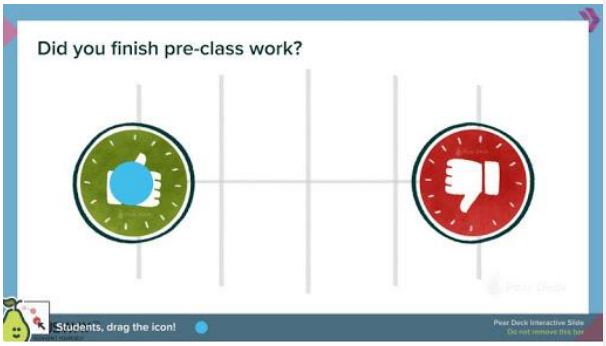
Part 1 - Summary

Use this space to summarize your thoughts on the lesson

Part 2 - Responses

Slide 1

Use this space to take notes:

Slide 2	Your Response
	

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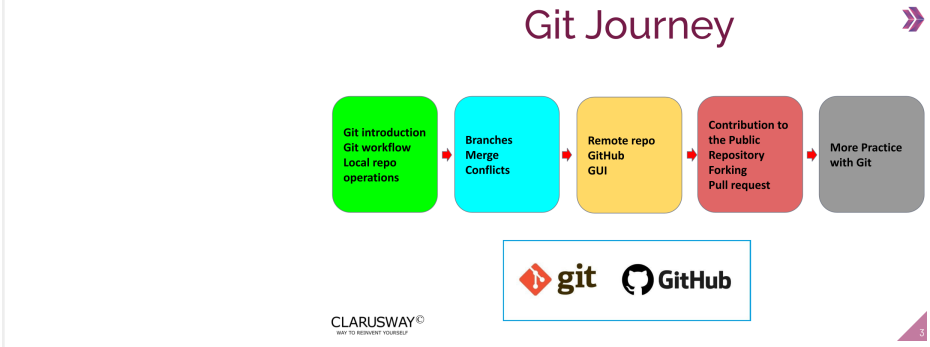

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Table of Contents

- What is version control?
- What is Git?
- How to create a Git repository?
- Basic Git commands
- Git workflow

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What do you know about Git?

Let's discuss about Git

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What is Git?

Git is an open source distributed version control system

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1 What's Version Control?

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Slide 8	Your Response
	Answer 1: çalışmalarımızın tüm versiyonlarını görürüz.

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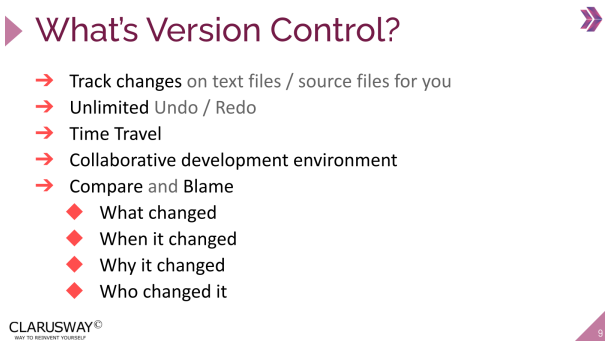

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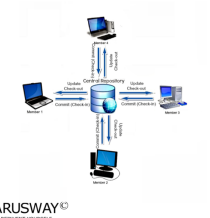
Version Control Systems

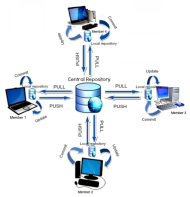
- **Centralized**

You need to be connected to the server



- **Distributed**

You can work while offline



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What's Version Control?

Your Daily Tasks

- **Create** things
- **Save** things
- **Edit** things
- Save the things **again**

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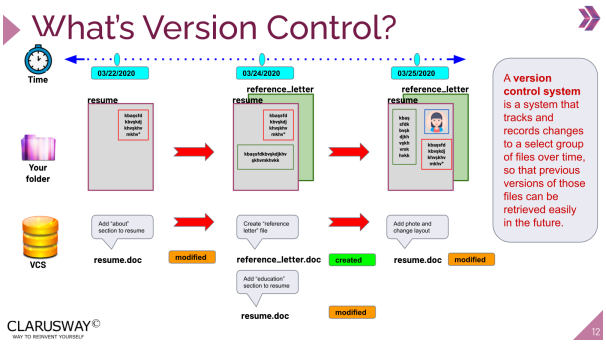

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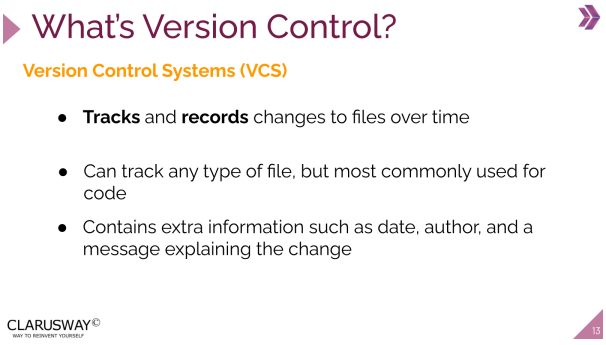

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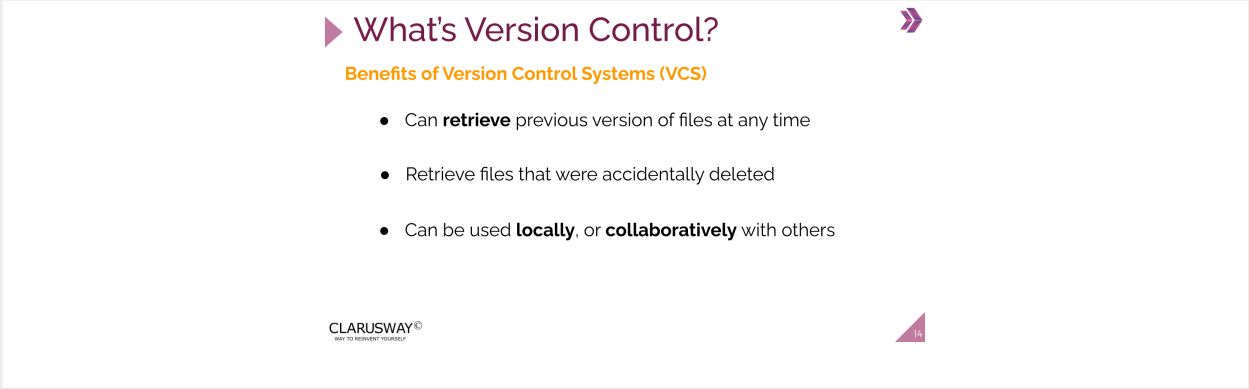

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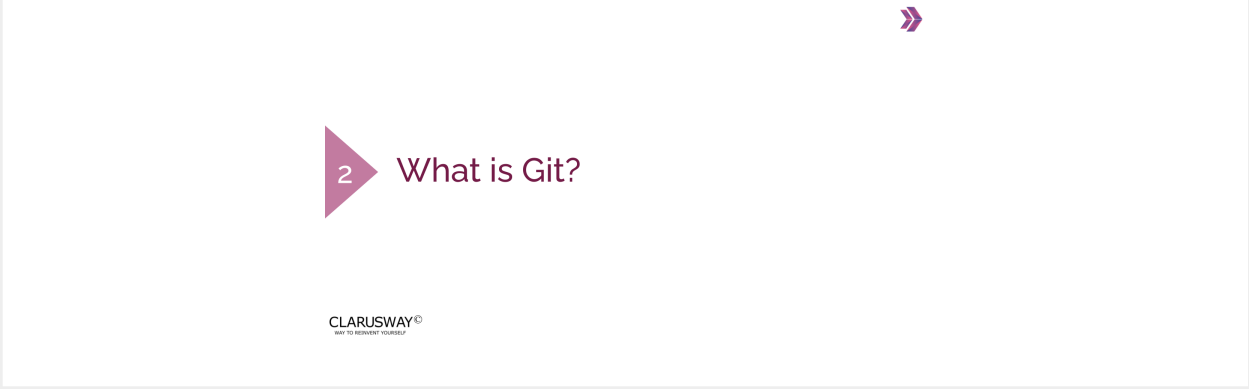

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What is Git?

- **Git** is a software
- Content Tracker
- Distributed Version Control System (VCS)
- Linus Torvalds

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Why do we need Git?

- Backup/Archive/Versioning/History
- Undo Changes
- Comparing
- Collaboration and Teamwork
- Code Review
- Blame

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Git Basics

Local Git

- **Distributed** so that connectivity doesn't block work
- **Easy** so that learning its commands can appen progressively

Distributed Git

- **Team-centric** so that collaboration happens *naturally*

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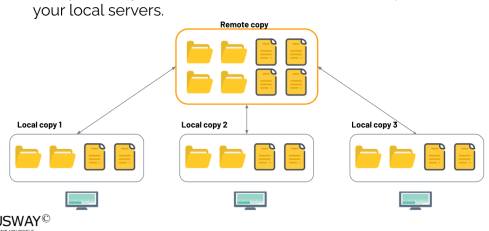
Git Basics

Backup

- In any case if your remote server crashes, a backup is available in your local servers.



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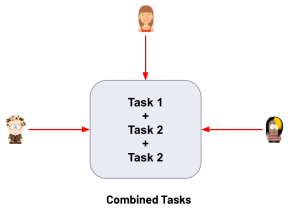
Git Basics

Collaboration



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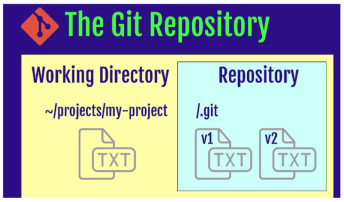
Git Repository

What is a repository

- A directory or storage space where your projects can live.

- Local Repository
- Remote Repository



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Git Repository

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Git Repository

- Let's check if you have git in your computer

```
git --version
```

- git needs your identity to mark/label changes / editor

```
git config --global user.name "Your Name"
git config --global user.email "Your Email"
git config --global core.editor "vim"
git config --list
```

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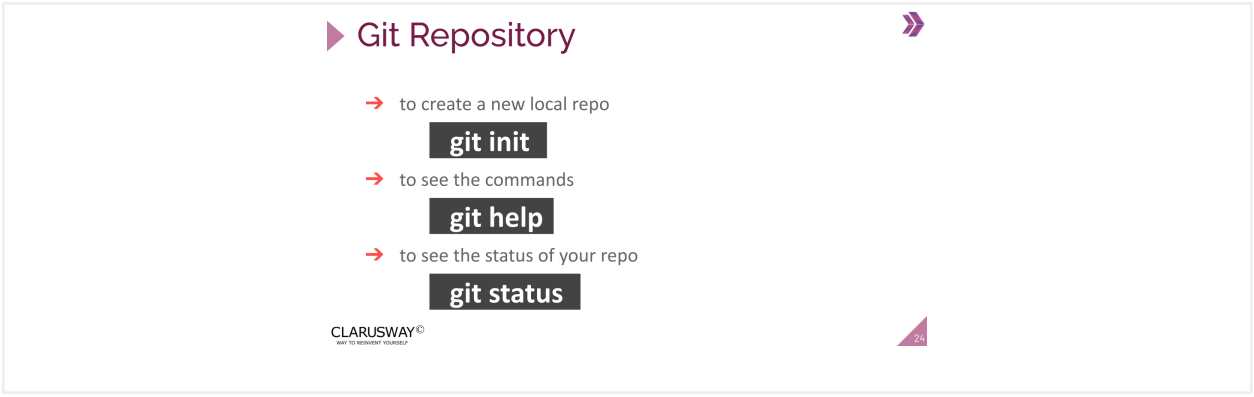

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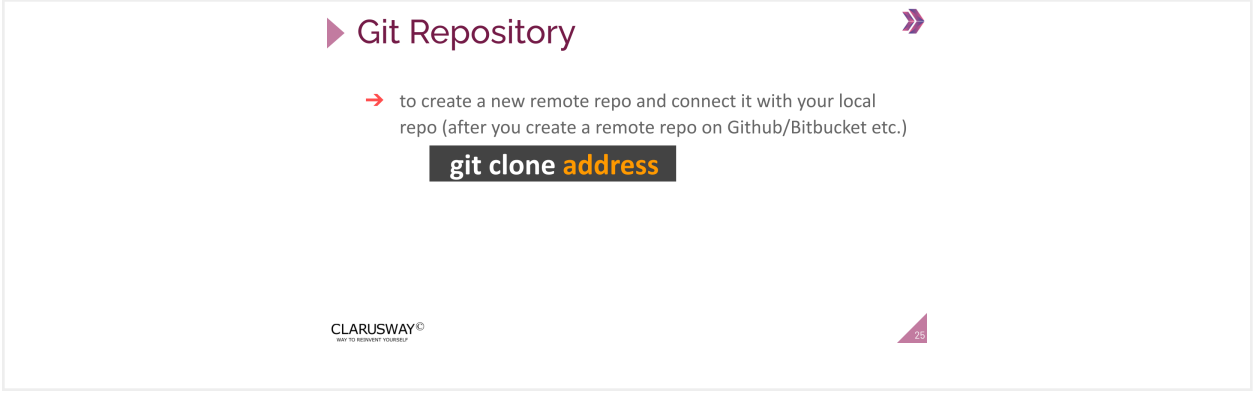

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3 Workflow

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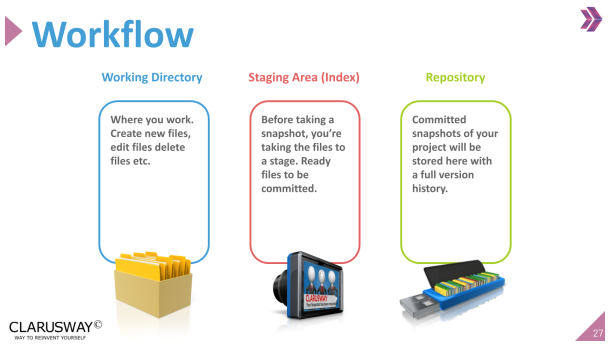

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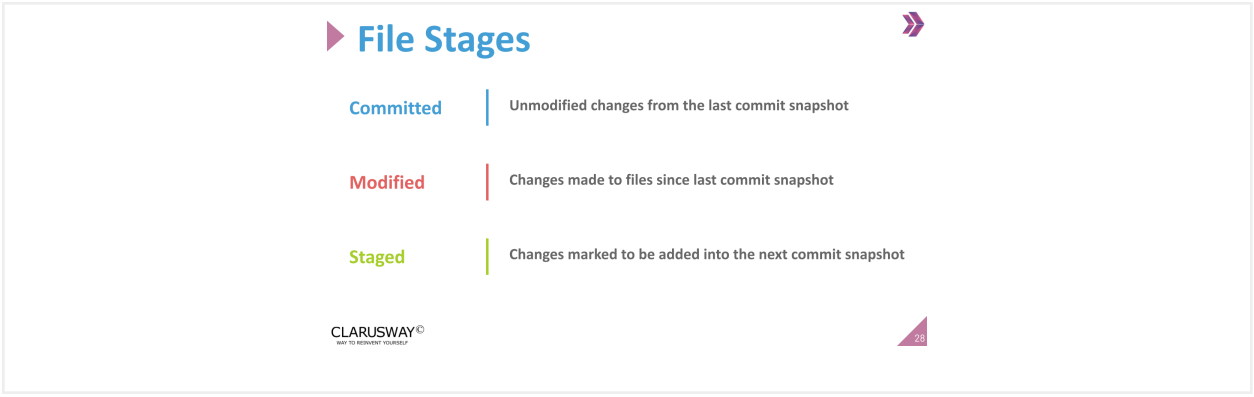

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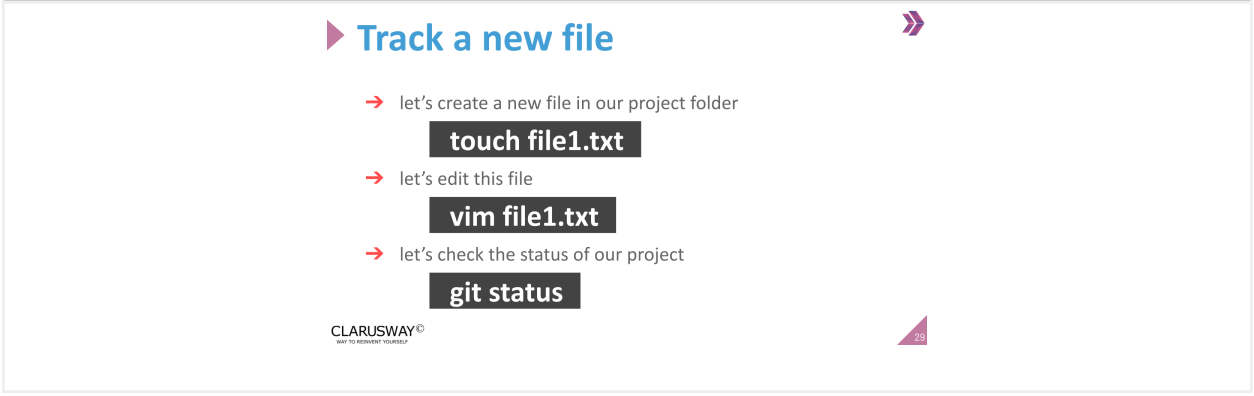

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Git

Stage modified files & commit changes

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Create a new file

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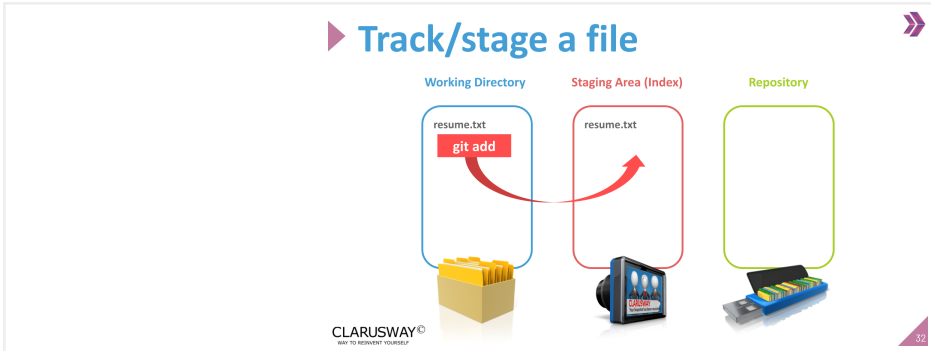

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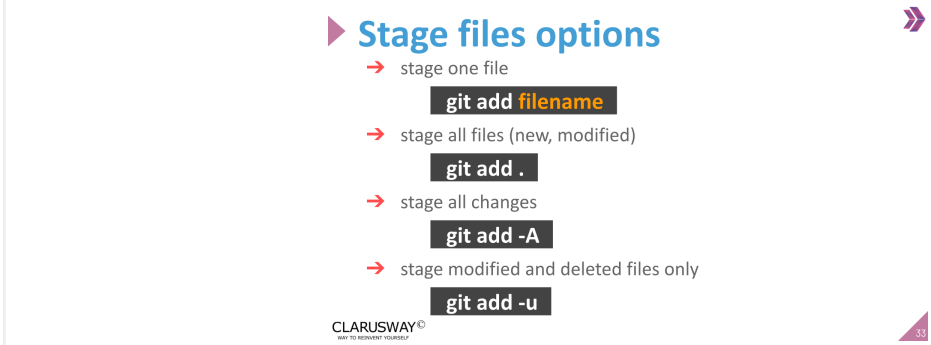

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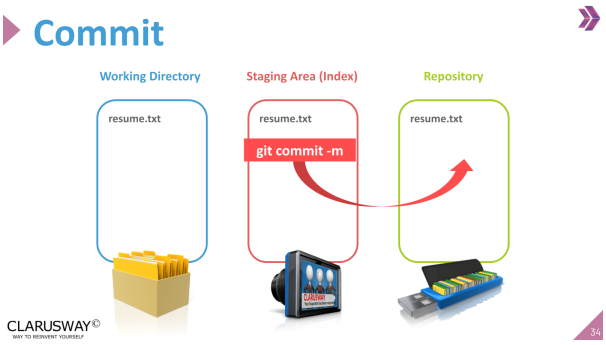

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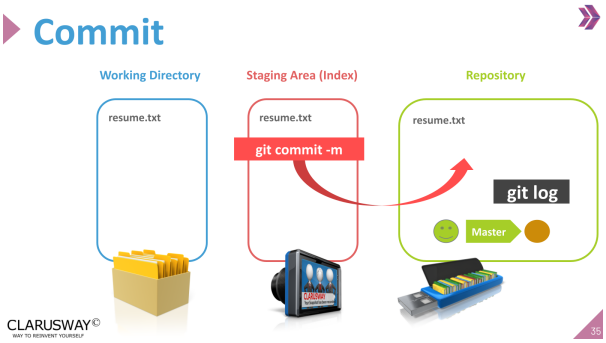

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Commit

- Commit the files on the stage

  `git commit -m "message"`

- Add and commit all tracked files

  `git commit -am "message"`

- amend commit message

  `git commit --ammend`

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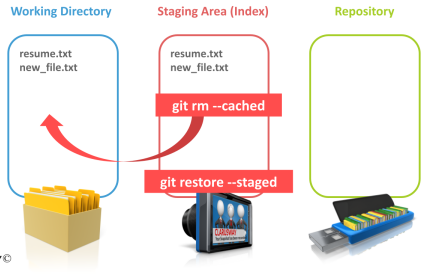
Remove from stage



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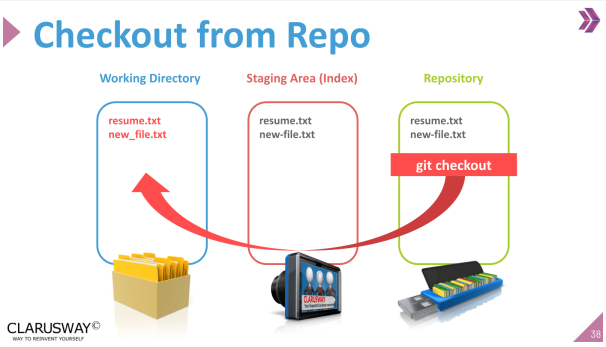

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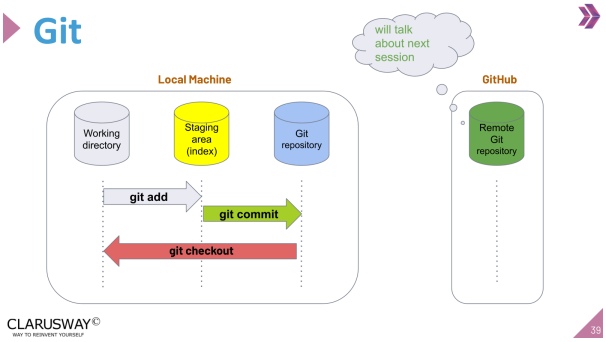

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New project

- Create a repo — **git init**
- Create a new file/edit file etc.
- Stage/Track your changes — **git add .**
- Commit changes — **git commit -m "message"**

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Slide 41	Your Response
Task-1 → Create a new repo under **project-3** folder → Create a file named **file1.txt** → Change the file → Stage the file → Commit the file to your repo Students, write your response!	**Answer 1:** git init git add git commit -m "first commit"

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Task-1 Solution

- Create a new repo under **project-3** folder — **git init**
- Create a file named **file1.txt** — **touch file1.txt**
- Change the file — **vim file1.txt**
- Stage the file — **git add .**
- Commit the file to your repo — **git commit -m "message"**

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Slide 43	Your Response
Task-2 ➔ Create a file named **file2.txt** ➔ Edit **file2.txt** ➔ Stage ➔ Delete the file **file1.txt** ➔ Rename **file2.txt** >> **file3.txt** ➔ Stage **file3.txt** ➔ Unstage **file3.txt** ➔ Stage **file3.txt** again ➔ Commit the file to your repo ➔ Change the message of the commit ➔ Switch back to your first commit in Task-1 Comments, write your response! Pear Deck Interactive Slide Do not remove this bar 43	**Answer 1:** touch file2.txt git

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Task-2 Solution

- Create a file named file2.txt — `touch file2.txt`
- Edit file2.txt — `vim file2.txt`
- Stage — `git add .`
- Delete the file file1.txt — `rm file1.txt`
- Rename file2.txt >> file3.txt — `mv file2.txt file3.txt`
- Stage file3.txt — `git add .`

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Task-2 Solution Cntd.

- Unstage file3.txt — `git rm --cached file3.txt`
- Stage file3.txt again — `git add .`
- Commit the file to your repo — `git commit -m "message"`
- Change the message of the commit — `git commit --amend`
- Switch back to your first commit in Task-1 — `git log`, `git checkout "first commit ID"`

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Git

Summary

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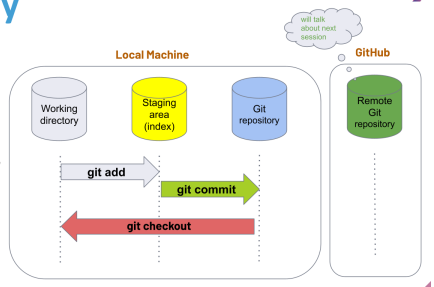
Summary

git init
git status
git add .
git commit -m “abc”
git log
git checkout



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THANKS!

Any questions?

You can find me at:

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