



## Welcome to this session: Git and Github

**The session will start shortly...**

Questions? Drop them in the chat.  
We'll have dedicated moderators  
answering questions.



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# Skills Bootcamp Cloud Web Development

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- The use of disrespectful language is prohibited in the questions, this is a supportive, learning environment for all - please engage accordingly. **(Fundamental British Values: Mutual Respect and Tolerance)**
- No question is daft or silly - **ask them!**
- There are **Q&A sessions** midway and at the end of the session, should you wish to ask any follow-up questions. Moderators are going to be answering questions as the session progresses as well.
- If you have any questions outside of this lecture, or that are not answered during this lecture, please do submit these for upcoming Academic Sessions. You can submit these questions here: **Questions**

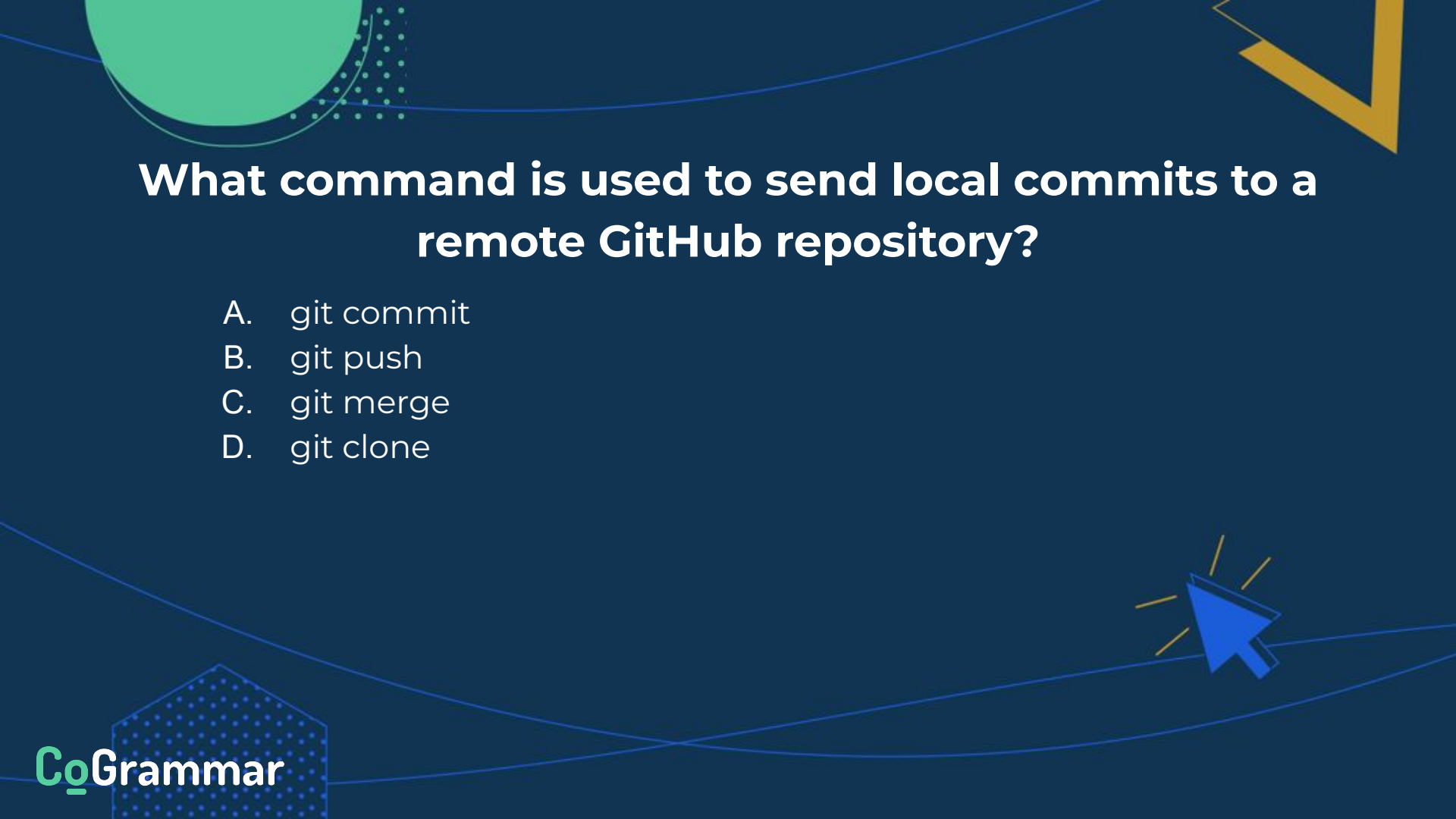
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- We would love your feedback on lectures: [Feedback on Lectures](#)
- If you are hearing impaired, please kindly use your computer's function through Google chrome to enable captions.

## Which of the following best describes Git?

- A. A cloud-based repository hosting service
- B. A version control system that tracks changes in code
- C. A programming language
- D. A tool used only for team collaboration



**What command is used to send local commits to a remote GitHub repository?**

- A. `git commit`
- B. `git push`
- C. `git merge`
- D. `git clone`

## Learning Outcomes

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- Define key Git and GitHub terminology (e.g., repository, commit, branch, merge).
- Explain the purpose and benefits of version control and collaborative development.
- Use Git commands to manage a local repository.

# Introduction to Git and Github

## ❖ What is Git?

- Git is a distributed version control system
- Tracks changes in files over time
- Helps in collaboration and code management
- Works locally, allowing offline development



# Introduction to Git and Github

## ❖ What is Github?

- A cloud-based Git repository hosting service
- Enables collaboration and remote storage
- Provides issue tracking, pull requests, and CI/CD integration

# Git vs Github

## **Git vs. GitHub:**

- Git is the tool; GitHub is the platform
- Git works locally; GitHub stores repositories online

# Key Git Commands



## Basic Commands:

- ♦ `git init` – Initialize a repository
- ♦ `git clone <repo>` – Copy a remote repository
- ♦ `git add <file>` – Stage changes
- ♦ `git commit -m "message"` – Save changes
- ♦ `git push` – Upload commits to GitHub
- ♦ `git pull` – Fetch and merge updates

# Branching vs Merging

- ❖ Branches allow independent development
- ❖ Merging integrates changes
- ❖ Common Commands:
  - `git branch <name>` – Create a new branch
  - `git checkout <name>` – Switch branches
  - `git merge <branch>` – Merge a branch into the current one

# Collaboration with Github

- ❖ Working as a Team:
- ❖ Forking repositories
- ❖ Creating & reviewing pull requests
- ❖ Managing issues and discussions

# Workflow Example

## Workflow Example:

1. Fork a repository
2. Create a new branch
3. Make changes & commit
4. Push and create a pull request
5. Review, merge, and delete branch



## Why do developers use branches in Git?

- A. To organize different projects in the same repository.
- B. To work on features separately without affecting the main code.
- C. To permanently store all previous versions of a file.
- D. To automatically sync changes between multiple repositories.



# Questions and Answers





# Thank you for attending



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