

Cultivating the Educator Community

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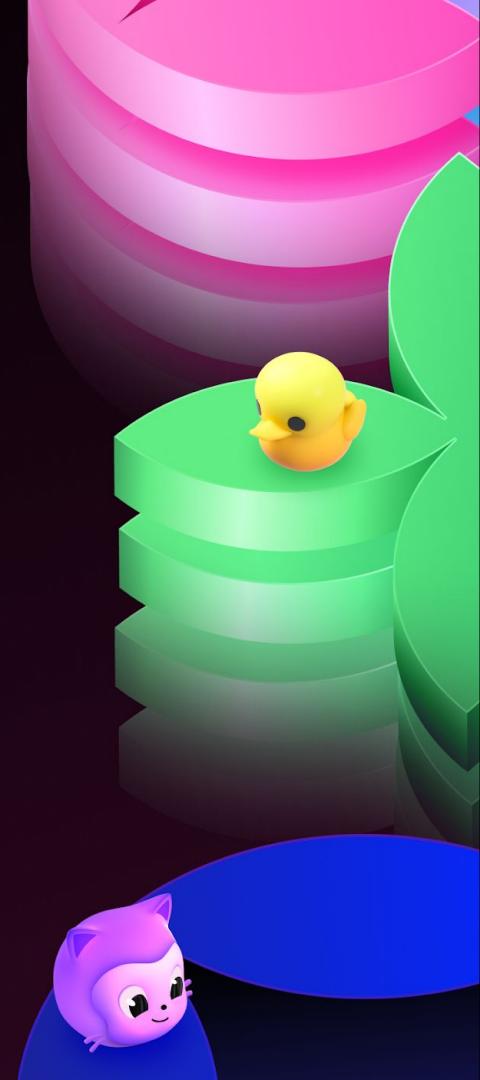
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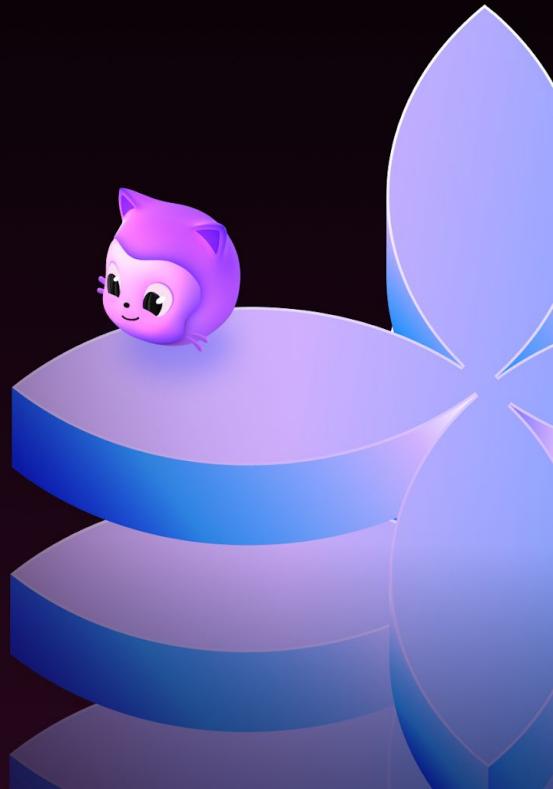
Codio: Patrick Ester



Overview

GitHub Education

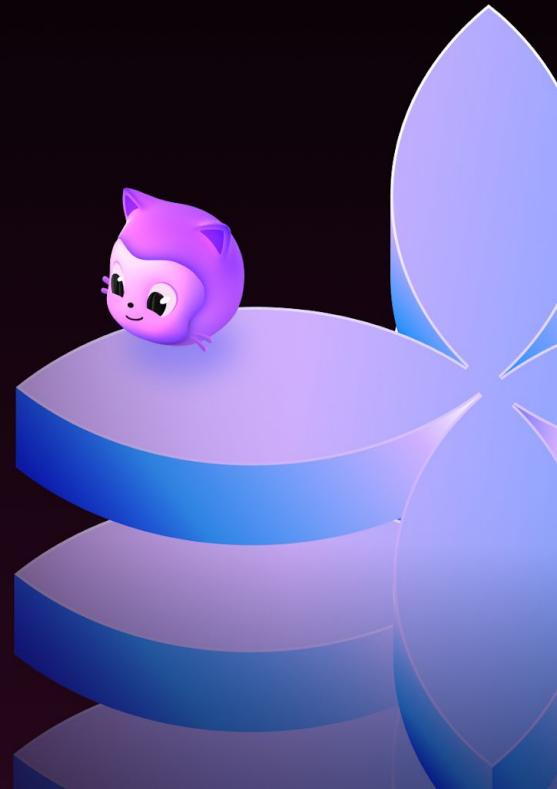
- GitHub Education helps anyone who wants to learn to code to do so by providing the right developer and AI tools to learn, build, and grow.
- GitHub Education provides products, services, and resources for over 5 million students, 200k verified educators, and 2k educational institutions.



The EDU Difference

EDU...

- Specifically serves students and teachers who are using or interested in using GitHub.
- EDU provides teachers free access to GitHub Teams, unlimited private repositories, secure classroom management, Copilot, the Teacher Toolbox resource hub, and resources for using AI in education.
- Provides tools and software to students via the Student Developer Pack.
- Outreach through Campus Experts, partnerships with Major League Hacking, Hack Club, and other orgs to empower students globally.



Student and Bulk Verification



Bulk Verification
Workflow

Student and Teacher Verification

GitHub offers student and teacher verification through EDU's [discount request application](#). Since 2013, over 6.3 million users have been academically verified by our system. This process has been largely automated and looks at over 200 signals that may indicate the academic status of any applicant. Even though this system is rigorous, a typical student or teacher will receive notification of their approval or rejection within minutes of applying.

Bulk Verification

The bulk verification process enables EDU staff to mass onboard students by uploading a CSV of GitHub handles, allowing internal verification without requiring individual applications. Valid handles are couponed, given a unique EduTools profile, and a Discount Request is created for each user. This approach streamlines onboarding, minimizes user error, and provides partners with a reliable, efficient way to verify large groups of students.

How do we deal with fraud?

All students who gain access to the Student Developer Pack go through a stringent verification process via the GitHub Education team and receive ongoing fraud monitoring. We frequently require reverification of current student status from Pack members when trends indicate bad actors may be at work.

Teacher Toolbox



[Link to Toolbox](#)

Teacher Toolbox

The Teacher Toolbox provides support materials for teachers and administrators, including professional development, institutional resources, use cases, and AI in the classroom support. The toolbox includes recommended pathways for an easy introduction to GitHub and different resource types. Free and available to all members of the GitHub EDU community.

Professional Development

- Quickstarts and Guides for how to use GitHub.
- Intro to GitHub Courses.
- Certifications included to all verified teachers.

AI and Copilot Resources

- Copilot Pro is free for educators.
- Intro to Copilot tutorials and lesson plans from Microsoft learn.
- Classroom toolkits for AI safety.

GitHub Teams

Verified teachers get access to GitHub Teams, which allows unlimited private repositories, classroom management tools, and classroom security features. By allowing teachers to collaborate on GitHub teams, students get exposed to the professional development environment, giving them a leg-up for their future tech careers. **Plus:** A private global network of teachers hosted on the GitHub discussion platform.



Lesson Plans

We have a Repo for that!

The screenshot shows a GitHub repository page for "edu-modular-lessons". The repository is private, has 2 branches, and 0 tags. It contains several files: "Lessons", "learning-pathways", "GitHub EDU In One Page.pdf", and "README.md". The "README.md" file was updated last week. The "About" section describes the repository as a collection of modular, easy-to-follow markdown lesson plans and resources for teachers and students ages 13–22. The "Project Goal" section states that the project is designed to provide a beginner-friendly set of lesson plans and resources for teachers and students (ages 13–22) who are new to GitHub. The goal is to empower educators and learners to confidently use GitHub for personal growth, classroom collaboration, and professional development.

/ edu-modular-lessons

sues Pull requests Actions Projects Models Wiki Security Insights Settings

Watch 0 Fork 0 Star 0

main 2 Branches 0 Tags Go to file Add file Code

adawright Update Lesson 6: Getting Started with GitHub Copilot.md ddc86a4 · last week 55 Commits

Lessons Update Lesson 6: Getting Started with GitHub Copilot.md last week

learning-pathways Create Workshop: Leveraging GitHub for Professional Dev... 2 weeks ago

GitHub EDU In One Page.pdf Add files via upload last week

README.md Update README.md 2 weeks ago

README Code of conduct Security

edu-modular-lessons

Project Goal

This project is designed to provide a beginner-friendly set of lesson plans and resources for teachers and students (ages 13–22) who are new to GitHub. Our mission is to empower educators and learners to confidently use GitHub for personal growth, classroom collaboration, and professional development.

- Every lesson is designed to be simple, clear, and actionable.

About

A collection of modular, easy-to-follow markdown lesson plans and resources for teachers and students ages 13–22.

Readme Code of conduct Security policy Activity Custom properties

0 stars 0 watching 0 forks

Releases

No releases published [Create a new release](#)

Packages

No packages published [Publish your first package](#)

Other Ways Students Can Learn with GitHub

Skills - *Self-paced interactive learning modules.*

Guides students and educators through GitHub tasks, using the same workflow and commands as professional users.

Modular, students able to pick based on interest, skill level, and age.

<https://skills.github.com/>

[Microsoft Learn - Classroom Toolkit](#)

Certificates - *Digital credentials awarded for completing learning paths or courses.*

Students can receive certificates for Skills modules or larger learning paths. GitHub foundations certification is offered as part of SDP.

Can enhance resumes or be proof of completion for an assignment.

<https://examregistration.github.com/>

Docs - *Official GitHub Documentation*

Provides up-to-date documentation and walkthroughs for all GitHub features.

Useful for new users, like students, to understand, teach, or troubleshoot GitHub.

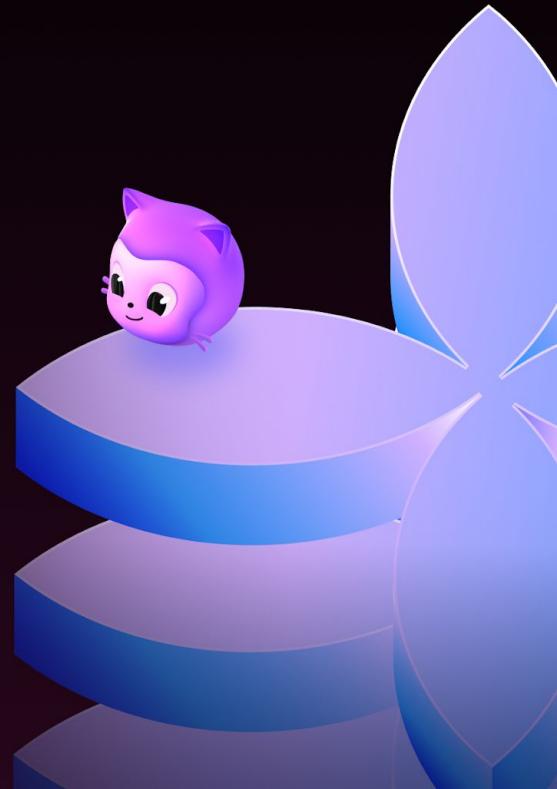
<https://docs.github.com/en>

[Apply to GitHub EDU as a student](#)

The Educator Challenge

The Challenge: Teachers in Deep Waters

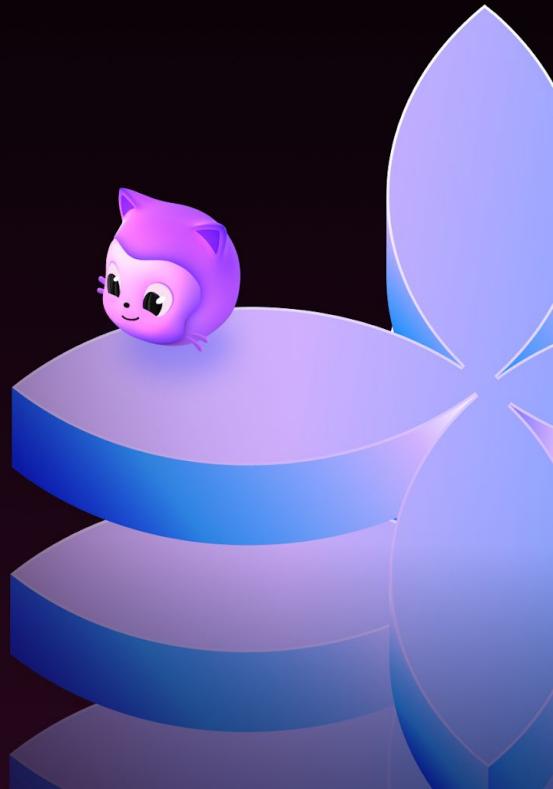
- Teachers expected to learn and teach:
 - Basic Computing
 - Software Development
 - Version Control
 - and now, AI
- Escalating expectations



The Educator Challenge

Educators are expected to:

- Teach about & with generative AI
- Teach ethical and responsible AI use
- Adapt curriculum while technology rapidly evolves
- Limited internet access compounds the challenge
- Yet enthusiasm for AI potential exists!



Introducing Students to AI

[Start Here](#)

[Older students?](#)

[Events?](#)

[Teaching Effective Use of AI?](#)



[Unlock generative AI - classroom toolkit](#)

A full lesson plan for middle and high school students, including mini projects.

[Hack Club Machine Learning Workshops](#)

Pre-created workshops for High School students.

[GitHub Copilot for Hackathons](#)

Want to host a hackathon or other project-based assignment? Learn how to leverage AI effectively.

[Commons Resources for Teaching AI](#)
[Mastering the Basics of Copilot](#)
[How to Write Better Prompts for Copilot](#)

A selection of resources from GitHub and Friends!

Educator Programs

GitHub Campus Program

The [GitHub Campus Program](#) provides GitHub Enterprise to eligible educational institutions to support teaching, learning, and academic collaboration. The program is designed for institutions delivering structured educational experiences that lead to recognized credentials, including a wide range of higher-education and skills-based learning environments.

Partner institutions span diverse contexts – from large universities and colleges to smaller schools and non-traditional learning programs.

 [More Information](#)

Institutional eligibility

Available to educational institutions based on academic focus and program fit.

Whole-institution model

Designed for school-wide adoption rather than individual classes or departments.

Academic-first usage

Intended for instructional and learning workflows.

Student & faculty ownership

Supports identity models that preserve long-term ownership of work.



The future of GitHub in the classroom



What we're hearing from you

- robust assignment management
- sophisticated autograding
- deeper student engagement tools
- meaningful learning analytics.

Expanding GitHub in the classroom through partnerships



The Fifty Foundation

Exclusive open-source partner



Codio

Exclusive commercial partner

Most importantly!

Get Verified!



Exclusive open source partner

The Fifty Foundation

Led by David J. Malan



The Fifty Foundation

OpenCourseWare and Open-Source Software

Regent Theatre names new owner, a Harvard computer prof

December 1, 2024 | by Brynn O'Connor



REGENT

FRI BOB WOLFMAN BAND
LIVE HENCH X TRIBUTE
SAT TOM PETTY NIGHT!
SUN BEING ROBIN PRINSNER

Commitment

www.EnterTheatreRockafane.com

About CS50

- Harvard's intro course for majors and non-majors
- Freely available as OpenCourseWare
 - 7.1M registrants on edX
 - 2.3M subscribers on YouTube
- Built atop GitHub; among GitHub's largest orgs
 - 1.1M repos in CS50's @me50 organization
 - 1.3M codespaces in CS50's @code50 organization
- Also built atop Microsoft Azure OpenAI Service
 - 403K teachers and students using CS50's rubber duck debugger at cs50.ai
- Committed to Open-Source Software
 - All of CS50's command-line tools, Docker images, and libraries

How CS50 was built atop GitHub

- Actions for **autograding**
- Classroom for **distributing assignments**
- Codespaces for **writing code**
- Container Registry for **storing Docker images**
- Copilot for **supporting final projects**
- OAuth2 for **authenticating**
- Organizations for **organizing submissions**
- Repositories for **storing submissions**
- REST API for **automating tasks**
- Teams for **managing permissions**

submit50

{owner}/{repo}/{branch}/{path}

check50

{owner}/{repo}/{branch}/{path}

style50

{path}

design50

{path}





github.com/foundation50



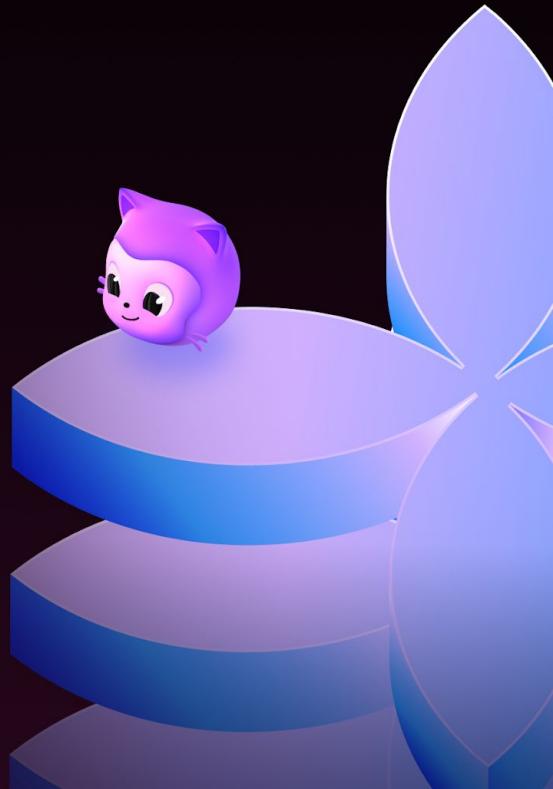
<https://fifty.foundation>



Exclusive commercial partner

Codio

Patrick Ester, Codio Dir. of Content





Thank you

Appendix