



GitHub Satellite 2019, Berlin

Training at scale: Building courses on GitHub Learning Lab

@hectorsector

A screenshot of a GitHub profile page for the user `hectorsector`. The profile picture shows a man with a beard sitting in a car at night. The page includes sections for Overview, Popular repositories, and Contributions.

Overview

- Repositories: 180
- Projects: 0
- Stars: 8
- Followers: 212
- Following: 0

Popular repositories

- git-and-the-bad-day**: COP 1000 Course Files (8 stars, 2 forks)
- cop1000**: COP 1000 Course Files (1 star)
- play-2048**: An example that will cause a build failure (Python, 1 star, 2 forks)
- travis-broken-example**: Forked from plaindocs/travis-broken-example (PHP, 1 fork)
- lesson-code**: All the code that is used in lessons within our COP 1000 course (Python, 3 forks)
- week2-hello-world**: Forked from Chummel/week2-hello-world (Python, 1 fork)

Contributions

4,211 contributions in the last year

Contribution settings ▾

2019

2018

2017

2016

Learn how we count contributions.

Organizations

GitHub STAFF

Orlando, FL

Edit

Change your avatar

Set your status

Lifelong teacher and learner.

Open "https://github.com/account" in a new tab

@hectorsector

@thehectorsector

learninglab@github.com

github.com

Pull requests Issues Marketplace Explore

Search or jump to...

Overview Repositories 180 Projects 0 Stars 8 Followers 212 Following 0

Popular repositories

Customize

git-and-the-bad-day
Copilot 8 stars 2 forks

play-2048
Forked from plaindocs/travis-broken-example
An example that will cause a build failure
Python 1 star 2 forks

cop1000
COP 1000 Course Files
1 star

travis-broken-example
Forked from plaindocs/travis-broken-example
An example that will cause a build failure
PHP 1 fork

lesson-code
All the code that is used in lessons within our COP 1000 course
Python 3 forks

week2-hello-world
Forked from Chummel/week2-hello-world
Python 1 fork

4,211 contributions in the last year

Contribution settings ▾

2019

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Learn how we count contributions.

Less More

Mon Wed Fri

Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar

GitHub STAFF

Orlando, FL

Edit

Organizations

Open "https://github.com/account" in a new tab

Hector Alfaro

hectorsector

Lifelong teacher and learner.

 @hectorsector

 @thehectorsector

 learninglab@github.com

Why Learning Lab?

Why Learning Lab?

- Time is valuable

Why Learning Lab?

- Time is valuable
- Facilitator ramp up

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- Up to date curriculum

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- Facilitator ramp up
- Up to date curriculum
- Traditional constraints
- Authentic assessments



What is GitHub Learning Lab?

What is GitHub Learning Lab?

Course catalog

For organizations

Learning paths



Course insights

Learning repositories

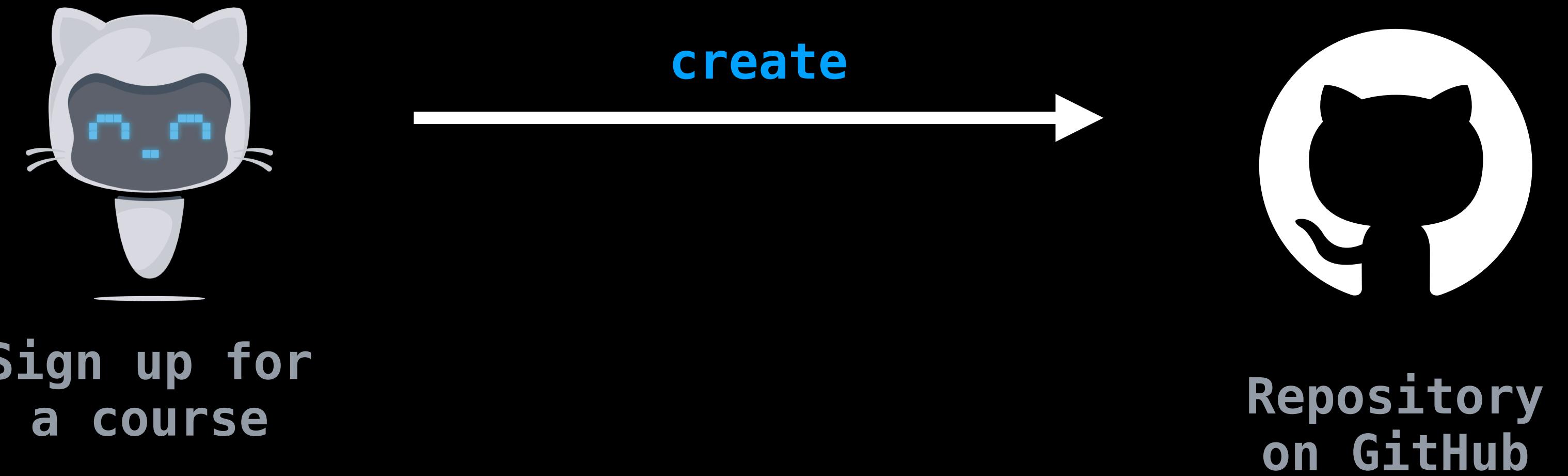
Hands on Learning

What is GitHub Learning Lab?

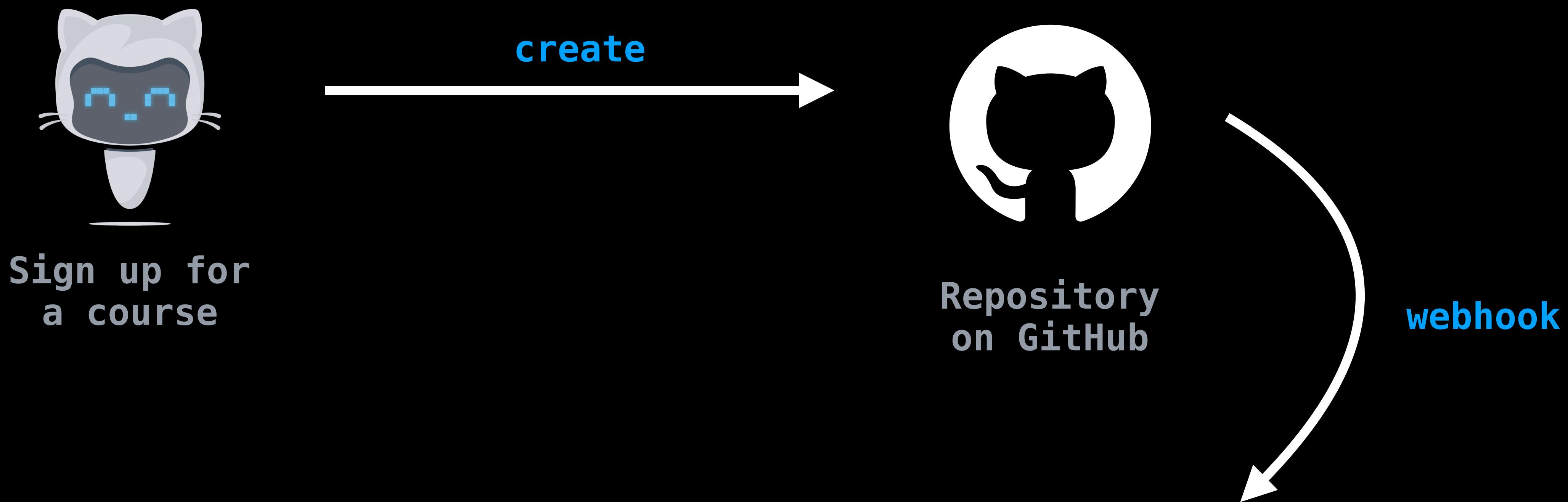


Sign up for
a course

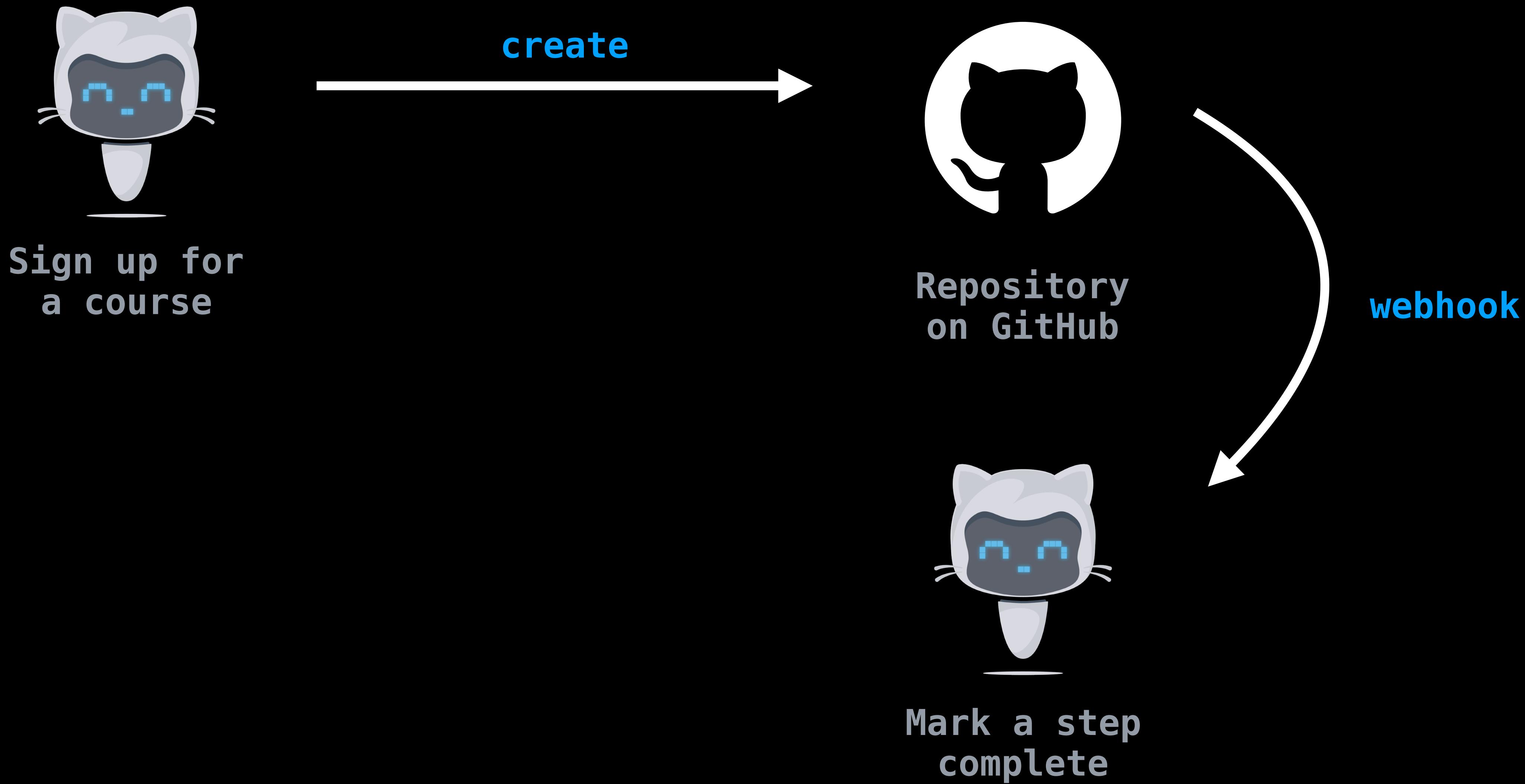
What is GitHub Learning Lab?



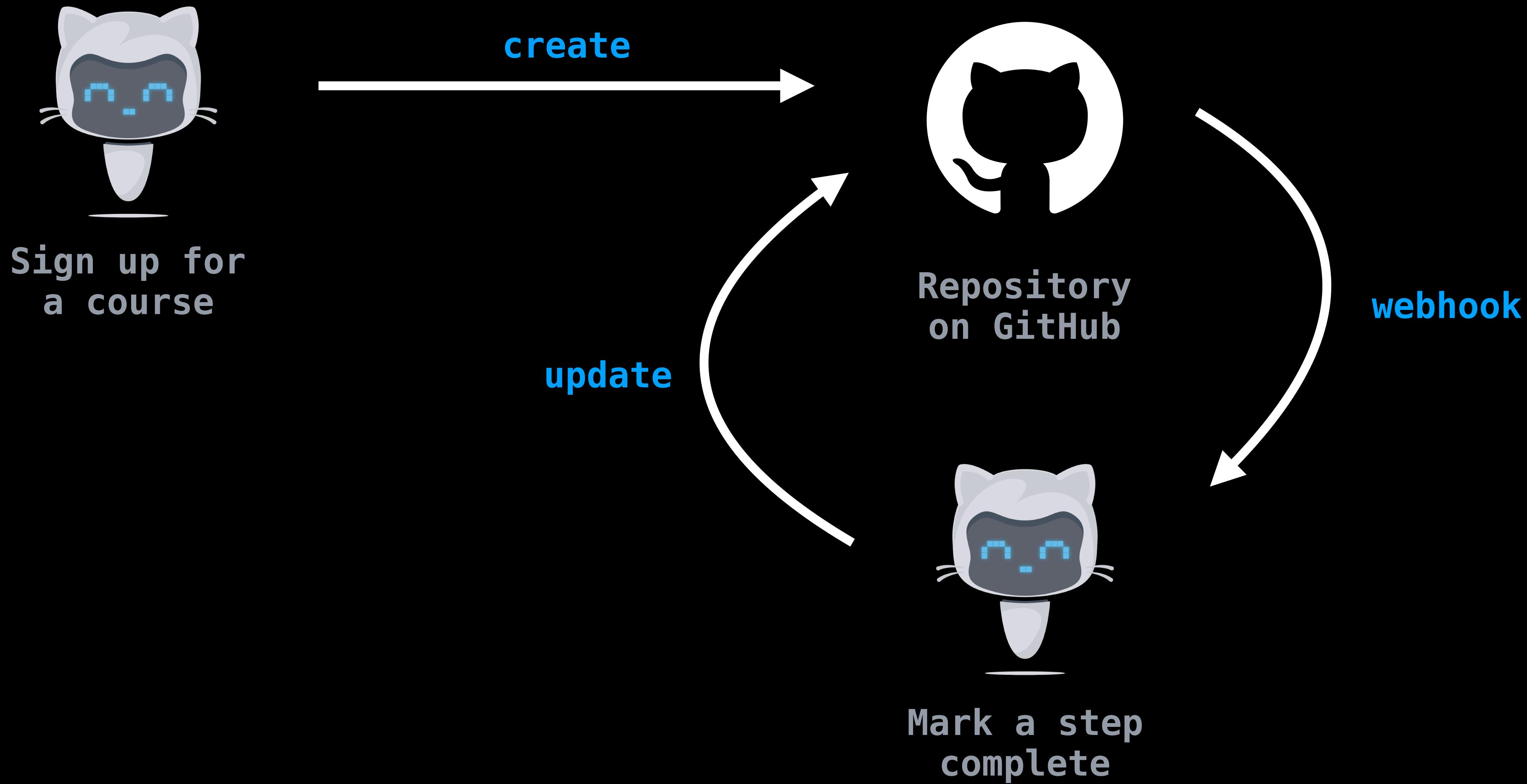
What is GitHub Learning Lab?



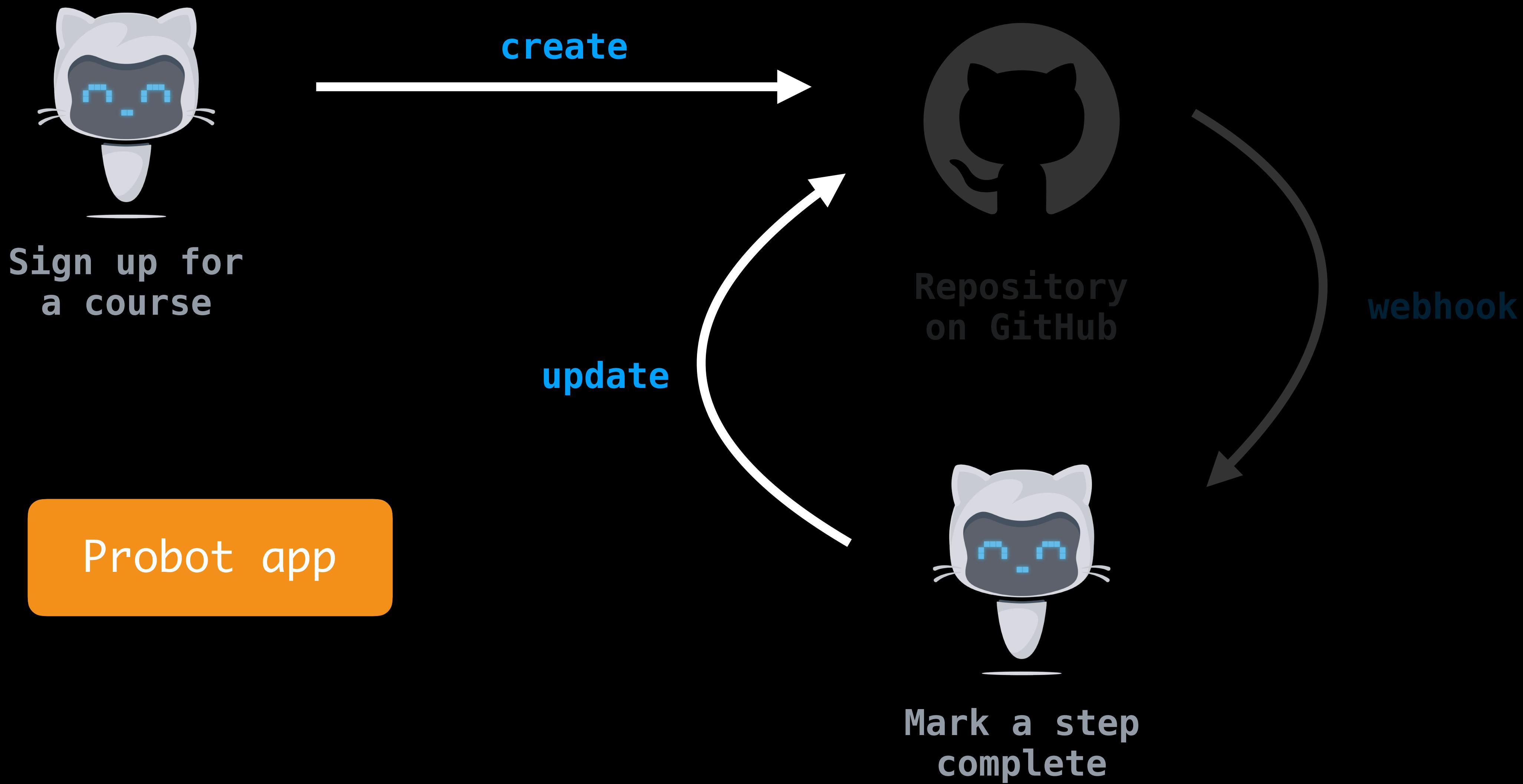
What is GitHub Learning Lab?



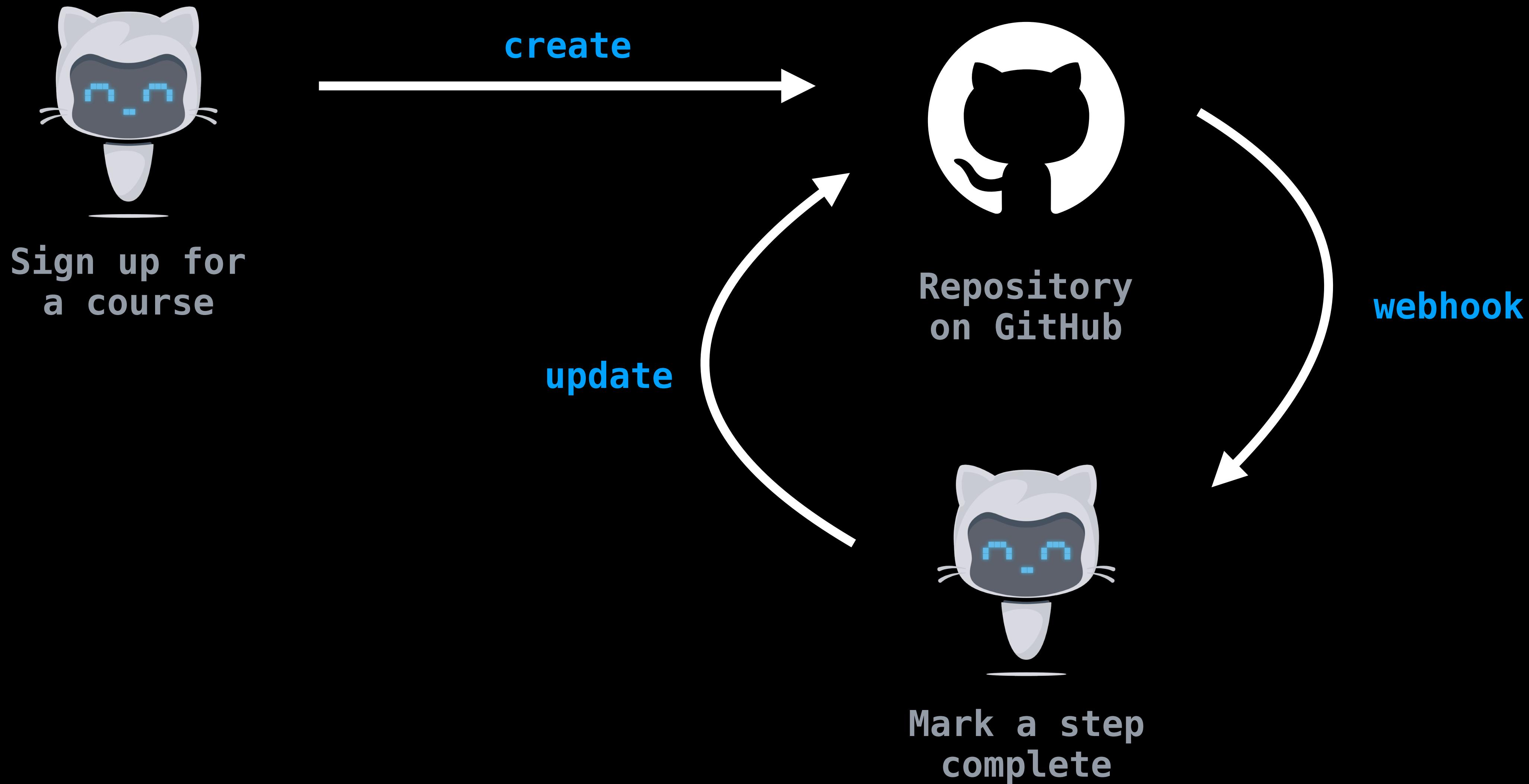
What is GitHub Learning Lab?



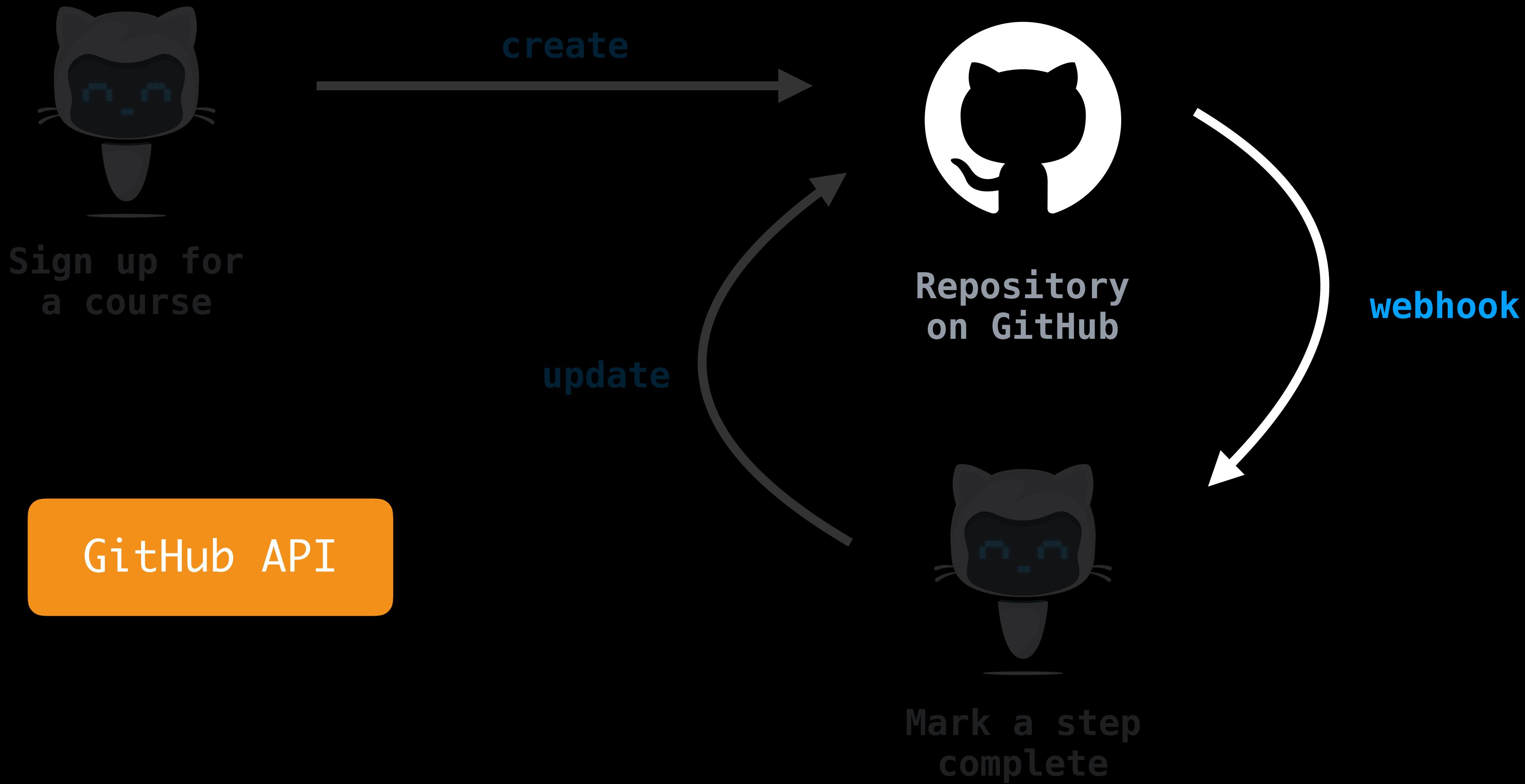
What is GitHub Learning Lab?



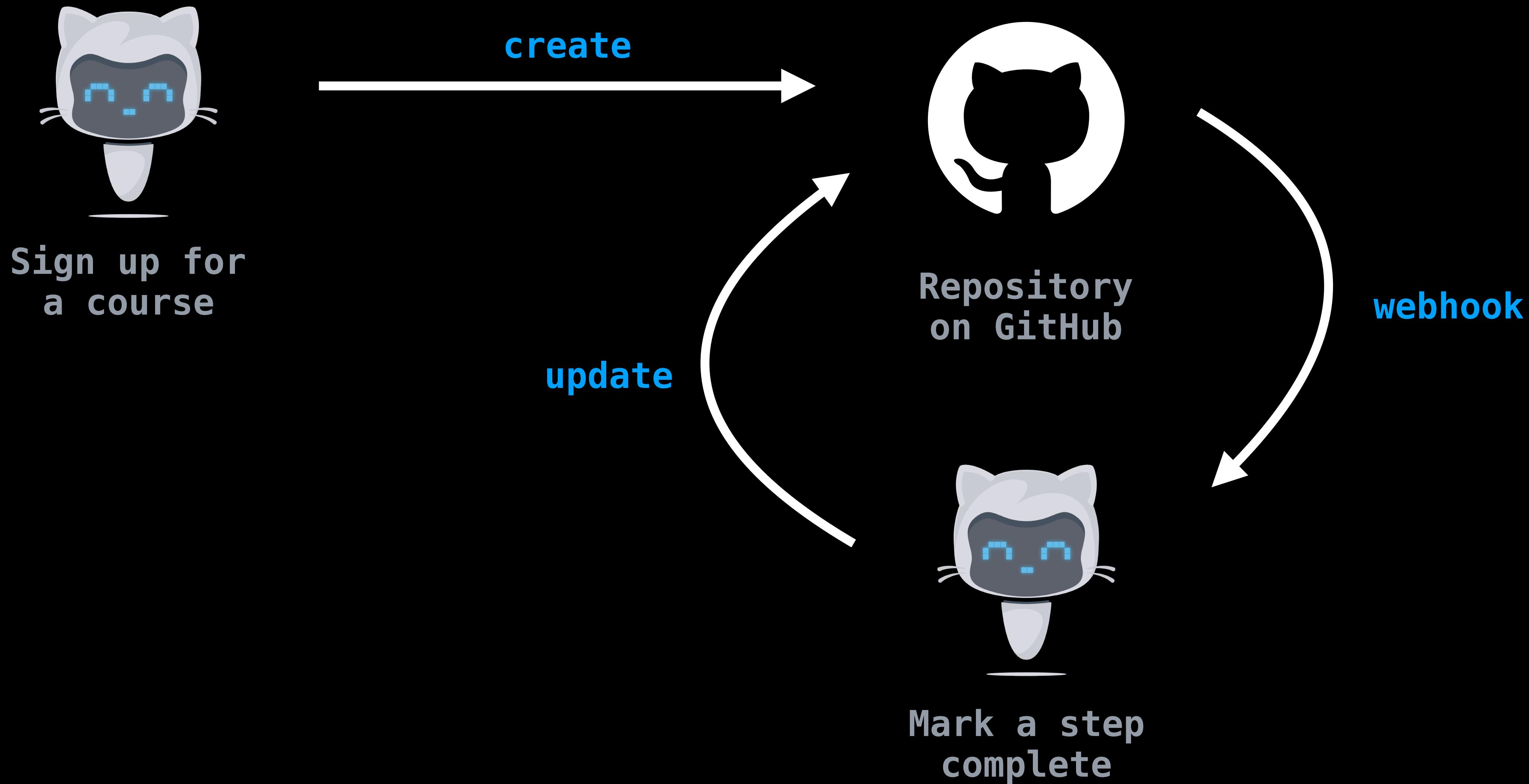
What is GitHub Learning Lab?



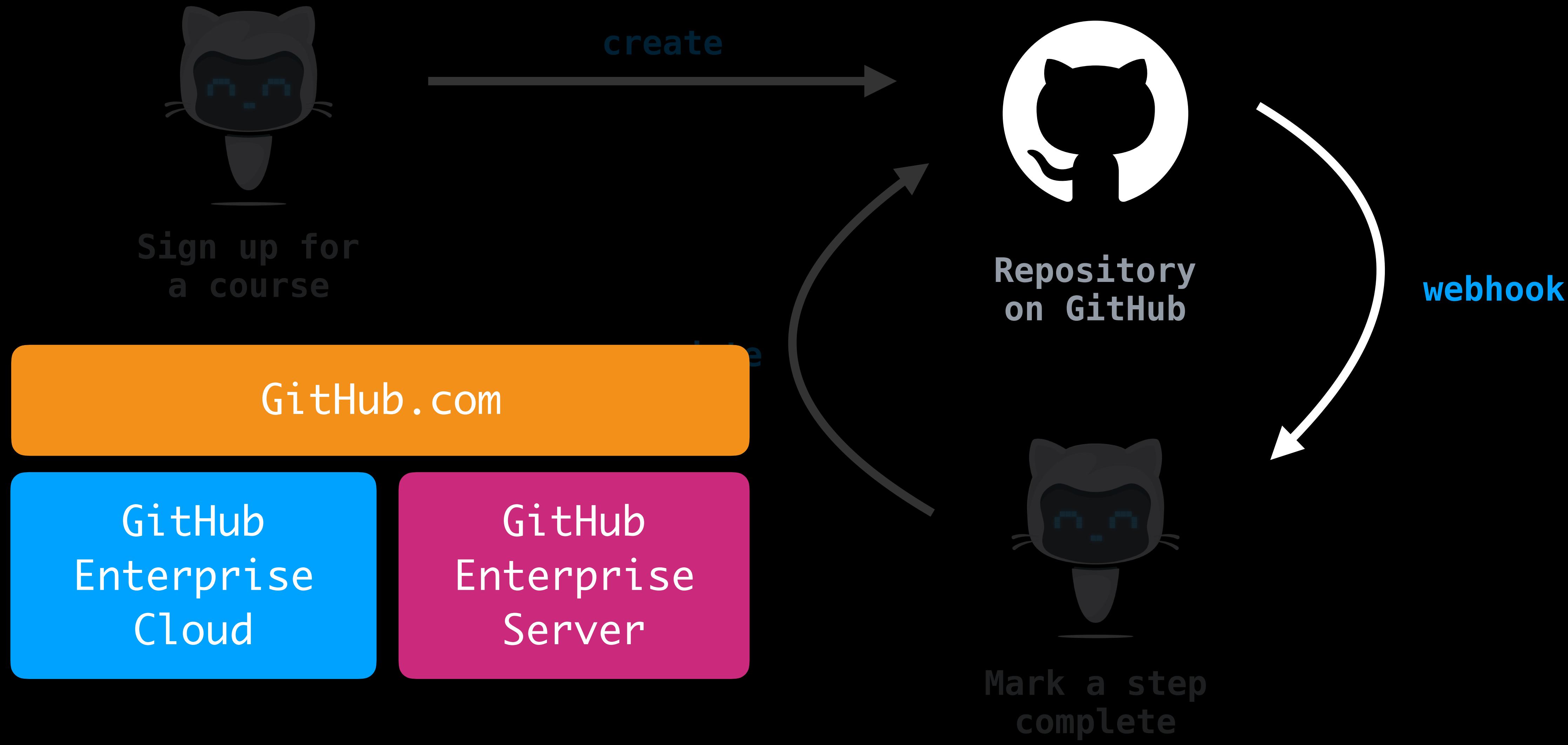
What is GitHub Learning Lab?



What is GitHub Learning Lab?



What is GitHub Learning Lab?



How does Learning Lab work?

lab.github.com

What does an author need to provide?

The screenshot shows a web browser window with the URL lab.github.com in the address bar. The page is titled "Managing merge conflicts" and is part of the "githubtraining/" course. The course is described as an "interactive guide to resolving merge conflicts". It is marked as "Published" and has a version of "10.0.1". The course includes sections for "Git", "Merge conflicts", and "GitHub". A progress bar indicates completion of the course steps. The first step, "Resolve a conflict", is described as "Resolve your first merge conflict".

Success! You've joined this course and you can access your new [hectorsector/merge-conflicts](#) repository.

githubtraining /

Managing merge conflicts

Your interactive guide to resolving merge conflicts

[Dashboard](#) Published 10.0.1 • Git • Merge conflicts • GitHub [hectorsector/merge-conflicts](#)

Progress Details

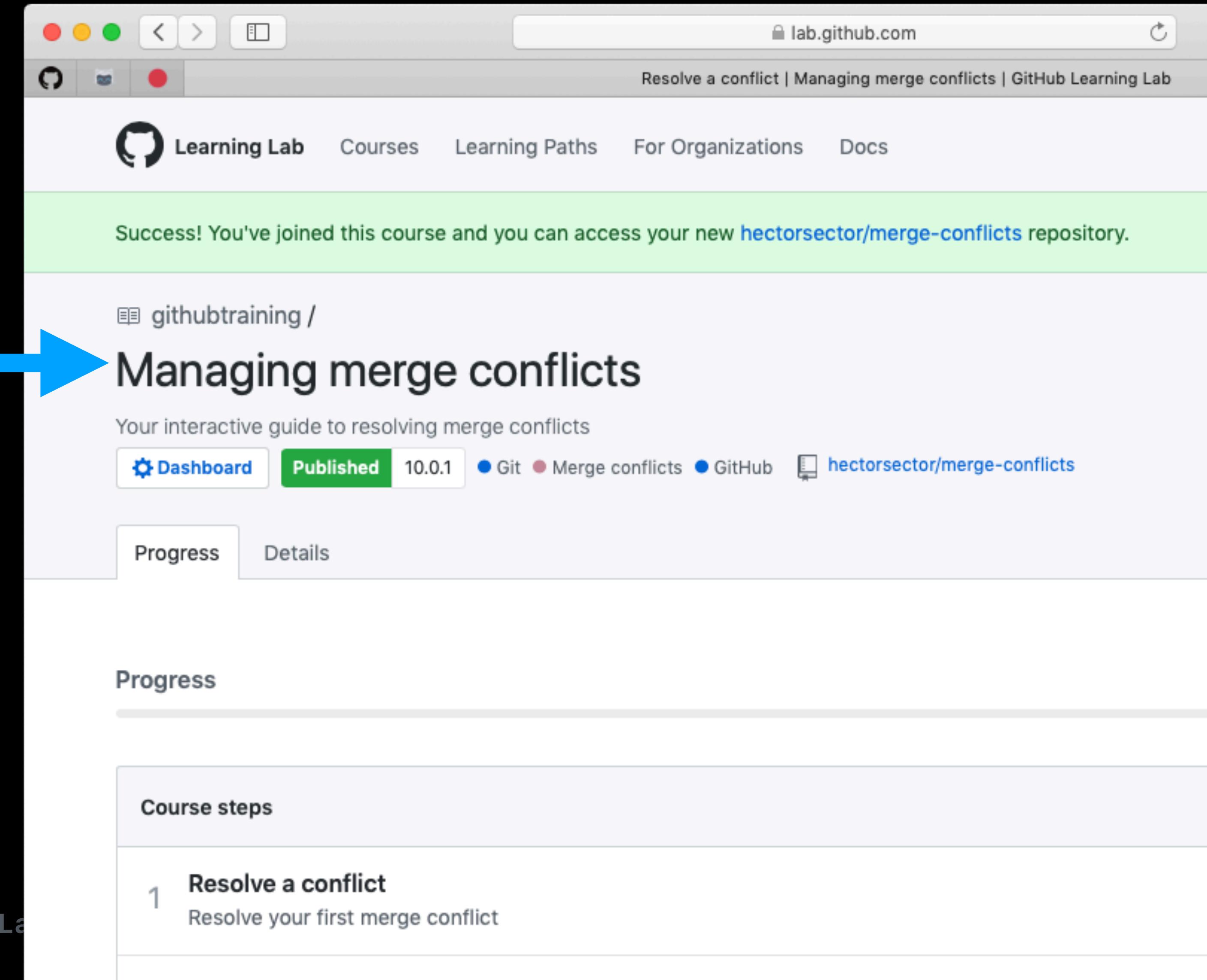
Progress

Course steps

1 **Resolve a conflict**
Resolve your first merge conflict

What does an author need to provide?

Course
metadata



The screenshot shows a web browser window for lab.github.com. The page title is "Resolve a conflict | Managing merge conflicts | GitHub Learning Lab". The main content area displays a success message: "Success! You've joined this course and you can access your new [hectorsector/merge-conflicts](#) repository." Below this, the course title is shown as "githubtraining / **Managing merge conflicts**". A subtitle reads "Your interactive guide to resolving merge conflicts". The course status is "Published" and version "10.0.1". It includes categories for "Git", "Merge conflicts", and "GitHub", and a link to the repository "[hectorsector/merge-conflicts](#)". Navigation tabs at the bottom include "Progress" and "Details". The "Progress" section shows a horizontal bar indicating completion. The "Course steps" section lists the first step: "1 **Resolve a conflict**" with the sub-instruction "Resolve your first merge conflict".

What does an author need to provide?

Series of steps
expected from
learner

The screenshot shows a web browser window for lab.github.com. The title bar includes standard OS X window controls and the URL. Below the title bar, there's a navigation bar with links to 'Learning Lab', 'Courses', 'Learning Paths', 'For Organizations', and 'Docs'. A green banner at the top of the main content area says 'Success! You've joined this course and you can access your new [hectorsector/merge-conflicts](#) repository.' The main content area has a header 'githubtraining / Managing merge conflicts' with a subtitle 'Your interactive guide to resolving merge conflicts'. It features tabs for 'Dashboard' (selected), 'Published', '10.0.1', and 'Git Merge conflicts GitHub [hectorsector/merge-conflicts](#)'. Below these are 'Progress' and 'Details' buttons. A large blue arrow points from the text 'Series of steps expected from learner' on the left towards the 'Course steps' section. The 'Course steps' section lists '1 Resolve a conflict' with the sub-instruction 'Resolve your first merge conflict'.

What does an author need to provide?

The screenshot shows a GitHub pull request page for a repository named 'hectorsector / merge-conflicts'. The page title is 'Welcome! Let's resolve a conflict #1'. A green button labeled 'Open' indicates that the pull request has been merged. The page includes sections for Conversation (0), Commits (1), Checks (0), and Files changed (1). A comment from the 'github-learning-...' bot states: 'Hello, and welcome! If you're here to learn about and practice resolving merge conflicts, you're in the right place.' Another comment says: 'In this course, you'll learn why merge conflicts happen and solve a few of them. The merge conflicts in this course are simple enough to solve from GitHub.com. But, if you'd prefer, you can solve them using the command line or other local tools.' A note at the bottom encourages users to check out GitHub Pages for a resume.

github.com

Resolve a conflict | Managing merge conflicts | GitHub Learning Lab

Welcome! Let's resolve a conflict by github-learning-lab · Pull Request

Search or jump to... Pull requests Issues Marketplace Explore

hectorsector / merge-conflicts Watch 0 Star 0

Code Issues 0 Pull requests 4 Actions Projects 0 Wiki Insights Settings

Welcome! Let's resolve a conflict #1

Open github-learning-... wants to merge 1 commit into master from update-config

Conversation 0 Commits 1 Checks 0 Files changed 1

github-learning-... bot commented 3 minutes ago

Welcome to Managing Merge Conflicts 🎉

Hello, and welcome! If you're here to learn about and practice resolving merge conflicts, you're in the right place.

In this course, you'll learn why merge conflicts happen and solve a few of them. The merge conflicts in this course are simple enough to solve from GitHub.com. But, if you'd prefer, you can solve them using the command line or other local tools.

As an added bonus, the project we are using for this course is a resume hosted on GitHub Pages! So, if you want to keep working after you complete this course, please feel free!

Before starting this course, we recommend completing the Introduction to GitHub Learning Lab first.

Reviewers
No reviews—at least 1 review is required.

Assignees
No one—assign yourself

Labels
None yet

Projects
None yet

Milestone

What does an author need to provide?

Initial issues or PRs



github.com

Resolve a conflict | Managing merge conflicts | GitHub Learning Lab

Welcome! Let's resolve a conflict by github-learning-lab · Pull Request

Search or jump to... Pull requests Issues Marketplace Explore

hectorsector / merge-conflicts

Code Issues 0 Pull requests 4 Actions Projects 0 Wiki Insights Settings

Welcome! Let's resolve a conflict #1

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Reviewers
No reviews—at least 1 review is required.

Assignees
No one—assign yourself

Labels
None yet

Projects
None yet

Milestone

What does an author need to provide?

Bot's responses

Training at scale: Building courses on Learning Lab

The screenshot shows a GitHub pull request page for a repository named 'hectorsector / merge-conflicts'. The pull request is from 'github-learning-...' to 'master' from the 'update-config' branch, with 4 commits. A green 'Open' button is visible. The main content area features a large blue arrow pointing from the left towards the text 'Welcome to Managing Merge Conflicts'.

Welcome! Let's resolve a conflict #1

Open github-learning-... wants to merge 1 commit into `master` from `update-config`

Conversation 0 Commits 1 Checks 0 Files changed 1

github-learning-... bot commented 3 minutes ago

Welcome to Managing Merge Conflicts 🎉

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Reviewers
No reviews—at least 1 review is required.

Assignees
No one—assign yourself

Labels
None yet

Projects
None yet

Milestone

What does an author need to provide?

The screenshot shows a GitHub repository page for the user 'hectorsector' named 'merge-conflicts'. The page includes a navigation bar with links for Pull requests, Issues, Marketplace, and Explore. Below the navigation is a search bar and a 'Watch' button. The repository summary shows 19 commits, 5 branches, 0 releases, and 2 contributors. A 'New pull request' button is visible. The repository's contents are listed below, showing files like .bundle, _assets, _data, _includes, _layouts, _sass, artifacts, css, and images, all described as 'Repository for merge conflict course'. The latest commit was made by 'githubteacher'.

hectorsector / merge-conflicts

Code Issues 0 Pull requests 4 Actions Projects 0 Wiki Insights Setting

https://lab.github.com/githubtraining...

Manage topics

19 commits 5 branches 0 releases 2 contributors

Branch: master New pull request Create new file Upload files Find File

githubteacher Merge pull request #1 from githubtraining/snyk-fix-levx48 ... Latest commit 7

File/Folder	Description
.bundle	Repository for merge conflict course
_assets	Repository for merge conflict course
_data	Add surfing and internship experience
_includes	Repository for merge conflict course
_layouts	Repository for merge conflict course
_sass	Repository for merge conflict course
artifacts	Add artifacts
css	Repository for merge conflict course
images	Repository for merge conflict course

What does an author need to provide?

Initial
codebase

Training at scale: Building courses on Learning Lab

The screenshot shows a GitHub repository page for the user 'hectorsector' named 'merge-conflicts'. The page includes a navigation bar with links for Pull requests, Issues, Marketplace, and Explore. Below the header, there's a search bar and a link to the repository's URL: <https://lab.github.com/githubtraining...>. The repository summary shows 19 commits, 5 branches, 0 releases, and 2 contributors. A blue arrow points from the 'Initial codebase' text on the left to the 'New pull request' button on the repository page. The file list on the right shows several folders: .bundle, _assets, _data, _includes, _layouts, _sass, artifacts, css, and images, all described as 'Repository for merge conflict course'.

hectorsector / merge-conflicts

Code Issues 0 Pull requests 4 Actions Projects 0 Wiki Insights Setting

<https://lab.github.com/githubtraining...>

Manage topics

19 commits 5 branches 0 releases 2 contributors

Branch: master New pull request Create new file Upload files Find File

Latest commit 7...

githubteacher Merge pull request #1 from githubtraining/snyk-fix-levx48 ...

File/Folder	Description
.bundle	Repository for merge conflict course
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_sass	Repository for merge conflict course
artifacts	Add artifacts
css	Repository for merge conflict course
images	Repository for merge conflict course

What does an author need to provide?

Initial
branches

Training at scale: Building courses on Learning Lab

A screenshot of a GitHub repository page for 'hectorsector / merge-conflicts'. The page shows basic repository statistics: 15 commits, 5 branches, 0 releases, and 2 contributors. A large blue arrow points from the left margin towards the 'Branch: master' dropdown menu. The repository's contents are listed below, including '.bundle', '_assets', '_data', '_includes', '_layouts', '_sass', 'artifacts', 'css', and 'images'.

hectorsector / merge-conflicts

https://lab.github.com/githubtraining...

Manage topics

15 commits 5 branches 0 releases 2 contributors

Branch: master New pull request Create new file Upload files Find File

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Folder	Description
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_sass	Repository for merge conflict course
artifacts	Add artifacts
css	Repository for merge conflict course
images	Repository for merge conflict course

What does an author need to provide?

The screenshot shows a GitHub pull request page titled "Welcome! Let's resolve a conflict #1". The page instructs the user to merge two commits from the "update-config" branch into the "master" branch. It provides a numbered list of steps for resolving conflicts:

- At the bottom of the page in the "This branch has conflicts that must be resolved" section of the Pull Request, click the **Resolve conflicts** button.
- Look for the highlighted sections that begin with `<<<<< update-config` and ends with `>>>>> master`. These markers are added by Git to show you the content that is in conflict.
- Remove the changes made on the master branch by deleting all of the content below the `=====` and above `>>>>> master`.
- Next, remove the merge conflict markers by deleting the following lines:

```
<<<<< update-config  
=====  
>>>>> master
```

After removing the conflict markers, the user should:

- With the merge conflict markers removed, click **Mark as resolved**.
- Finally, click **Commit merge**.

A note states: "Sometimes, the best way to resolve a merge conflict is to add content that's from both branches, or even something that isn't on either! This is why Git needs a human to look at the code and make the proper fixes."

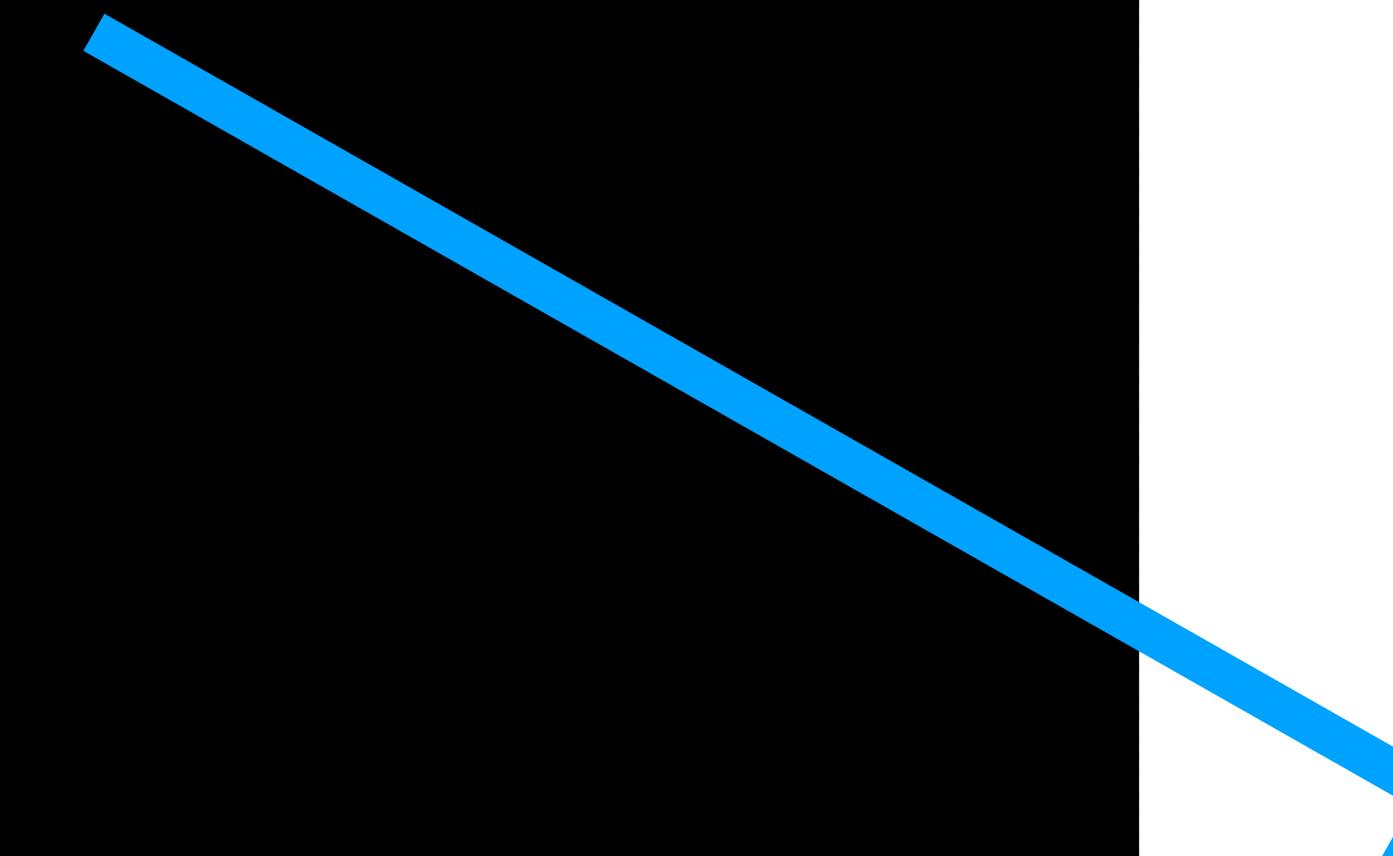
Below the instructions, there is a box with the text "Watch below for my response." followed by a list of recent commits:

- add GitHubteacher info to config 0e28c72
- hectorsector pushed a commit that referenced this pull request 4 minutes ago
- Merge pull request #1 from githubtraining/snyk-fix-levx48 ... 705a4c8
- Merge branch 'master' into update-config 98e5706

A comment from "github-learning-... bot" is shown at the bottom, stating: "You did it, @hectorsector! Nice job resolving the conflict. Most conflicts in your day to day experience should be pretty simple, as in that activity. You may need to discuss the resolution with your peers. If".

What does an author need to provide?

Actions to take
when the learner
executes a step



Training at scale: Building courses on Learning Lab

The screenshot shows a GitHub pull request page for a repository named 'github-learning-lab'. The pull request is titled 'Welcome! Let's resolve a conflict #1' and is merging two commits from the 'update-config' branch into the 'master' branch. The page includes instructions for resolving conflicts, showing merge conflict markers like <<<<< update-config, =====, and >>>>> master, and a section on how to handle them. A large blue arrow points from the 'Actions to take when the learner executes a step' text above to this screenshot.

github.com

(1) Welcome! Let's resolve a conflict #1 · Pull Request #1 · hectorsector/merge-conflicts

Open Welcome! Let's resolve a conflict #1

github-learning-lab wants to merge 2 commits into master from update-config

Activity: Resolving your first merge conflict

- At the bottom of the page in the "This branch has conflicts that must be resolved" section of the Pull Request, click the **Resolve conflicts** button.
- Look for the highlighted sections that begins with <<<<< update-config and ends with >>>>> master . These markers are added by Git to show you the content that is in conflict.
- Remove the changes made on the master branch by deleting all of the content below the ===== and above >>>>> master .
- Next, remove the merge conflict markers by deleting the following lines:
<<<<< update-config
=====
>>>>> master

5. With the merge conflict markers removed, click **Mark as resolved**.

6. Finally, click **Commit merge**.

Sometimes, the best way to resolve a merge conflict is to add content that's from both branches, or even something that isn't on either! This is why Git needs a human to look at the code and make the proper fixes.

Watch below for my response.

add GitHubteacher info to config 0e28c72

hectorsector pushed a commit that referenced this pull request 4 minutes ago

Merge pull request #1 from githubtraining/snyk-fix-levx48 ... 705a4c8

Merge branch 'master' into update-config 98e5706

github-learning-... bot commented just now

You did it, @hectorsector! Nice job resolving the conflict. Most conflicts in your day to day experience should be pretty simple, as in that activity. You may need to discuss the resolution with your peers. If

What does a Learning Lab course need?

- Course metadata
- Initial issues and pull requests
- The bot's responses
- A series of steps expected from the learner
- Actions* to take when the learner executes the step
- Initial codebase
- Initial branches

*Actions in Learning Lab ≠ GitHub Actions

What does a Learning Lab course need?

- Course metadata
- Initial issues and pull requests
- The bot's responses
- Initial codebase
- Initial branches

- A series of steps expected from the learner

Webhooks

- Actions* to take when the learner executes the step

*Actions in Learning Lab ≠ GitHub Actions

What does a Learning Lab course need?

- Course metadata
- Initial issues and pull requests
- The bot's responses
- A series of steps expected from the learner
- Actions* to take when the learner executes the step
- Initial codebase
- Initial branches

GitHub's REST API
using Octokit

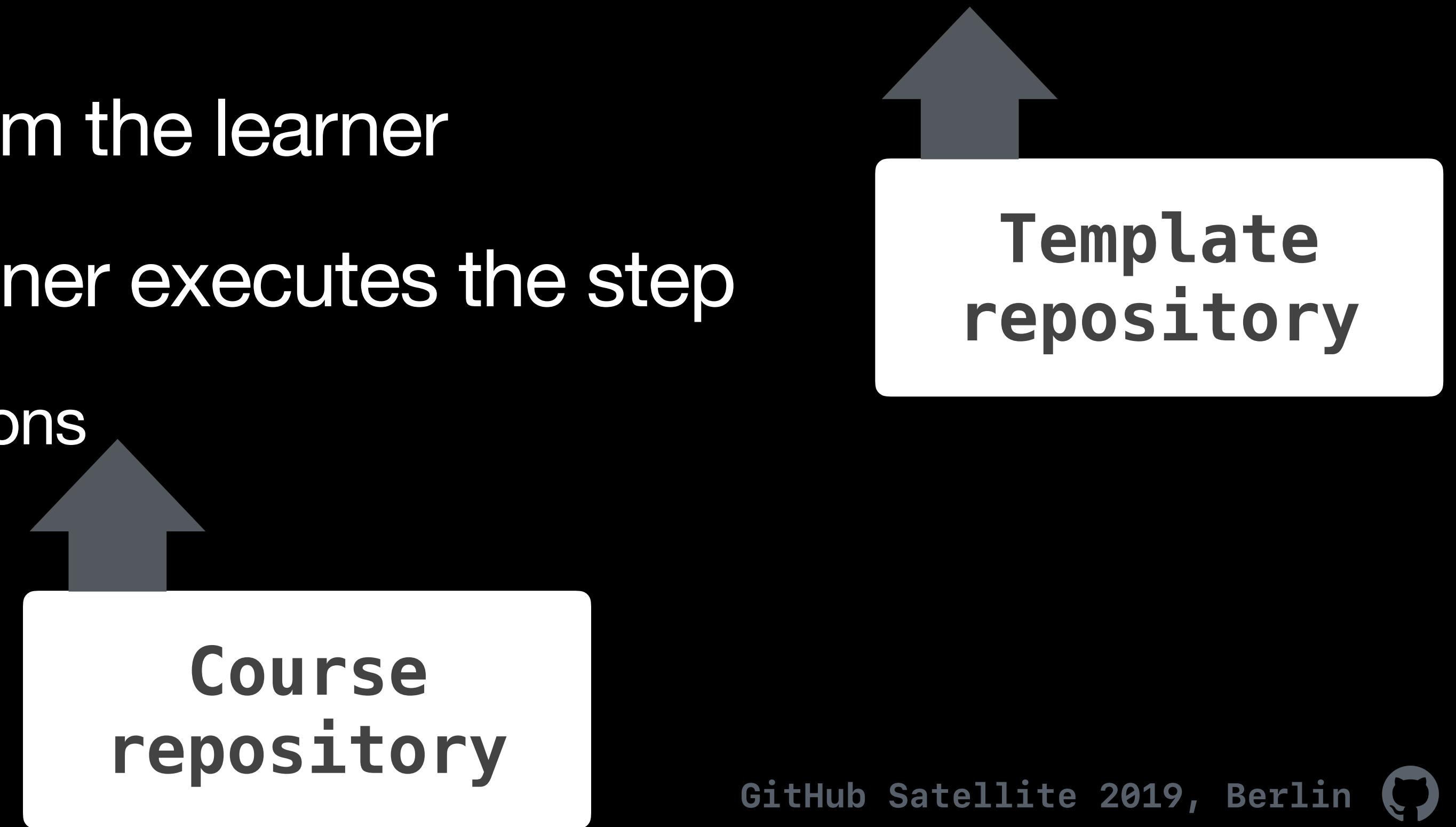
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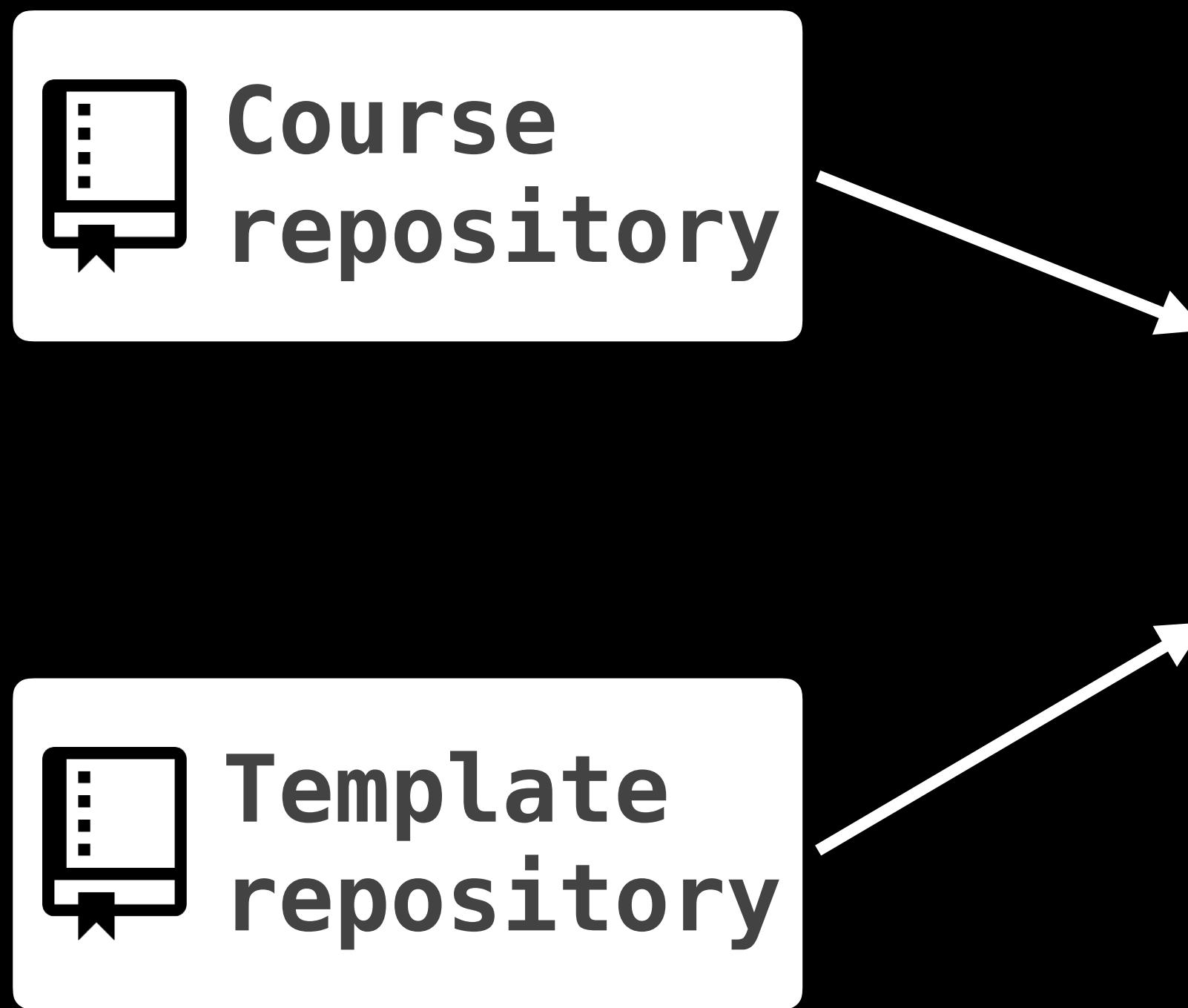
What does a Learning Lab course need?

- Course metadata
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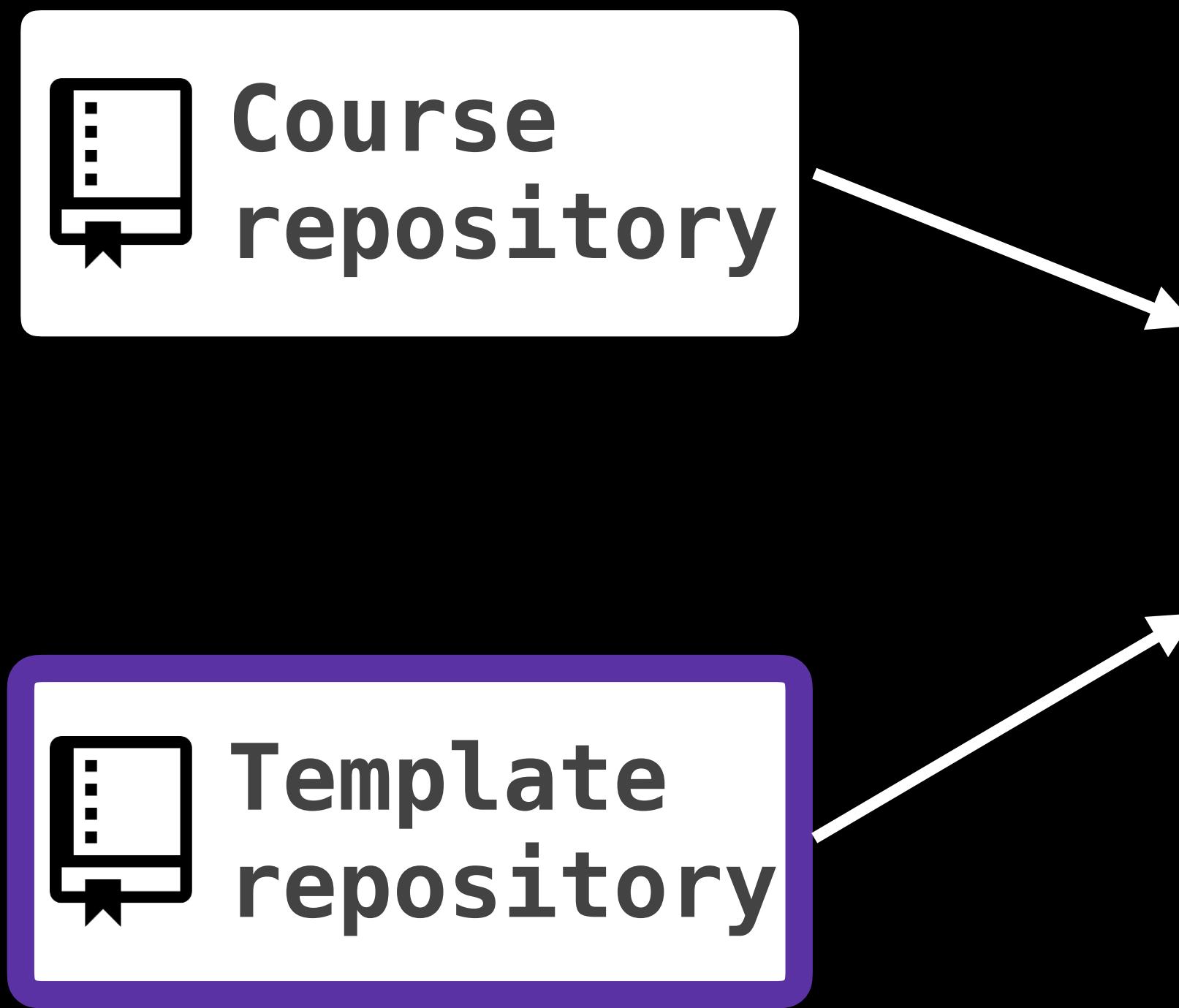
Creating a course on GitHub Learning Lab



A screenshot of a web browser displaying the GitHub Learning Lab interface at lab.github.com. The page title is "Introduction to GitHub". The top navigation bar includes "Learning Lab", "Courses", "Learning Paths", and "For Organizations". Below the title, there is a brief description: "Your sidekick for getting started on GitHub" with links for "Git" and "GitHub", and a repository link "hectorsector/github-slideshow". The main content area shows a progress bar at the top, followed by a section titled "Course steps" with five numbered steps:

- 1 **Assign yourself**
- 2 **Turn on GitHub Pages**
Turn on GitHub Pages in the settings page of the repository.
- 3 **Close an issue**
Cease a conversation by closing an issue.
- 4 **Create a branch**
Create a branch for introducing new changes.
- 5 **Commit a file**
Commit your file to the branch.

Creating a course on GitHub Learning Lab

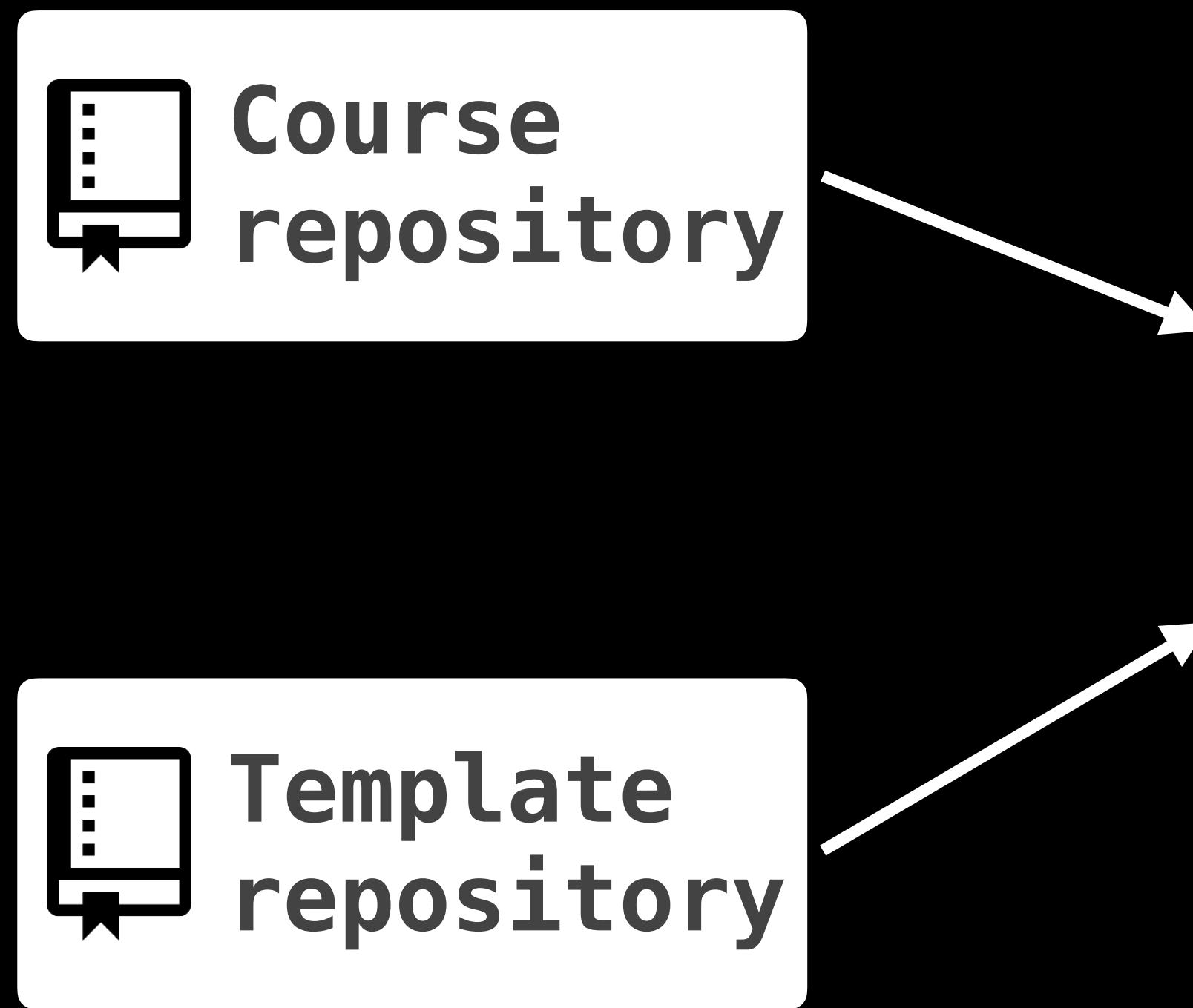


The screenshot shows the GitHub Learning Lab interface at lab.github.com. The top navigation bar includes "Learning Lab", "Courses", "Learning Paths", and "For Organizations". The main content area displays a course titled "Introduction to GitHub" with the subtitle "Your sidekick for getting started on GitHub". It shows "Progress" (Git, GitHub) and a link to "hectorsector/github-slideshow". Below this, the "Course steps" section lists five numbered steps:

- 1 **Assign yourself**
- 2 **Turn on GitHub Pages**
Turn on GitHub Pages in the settings page of the repository.
- 3 **Close an issue**
Cease a conversation by closing an issue.
- 4 **Create a branch**
Create a branch for introducing new changes.
- 5 **Commit a file**
Commit your file to the branch.

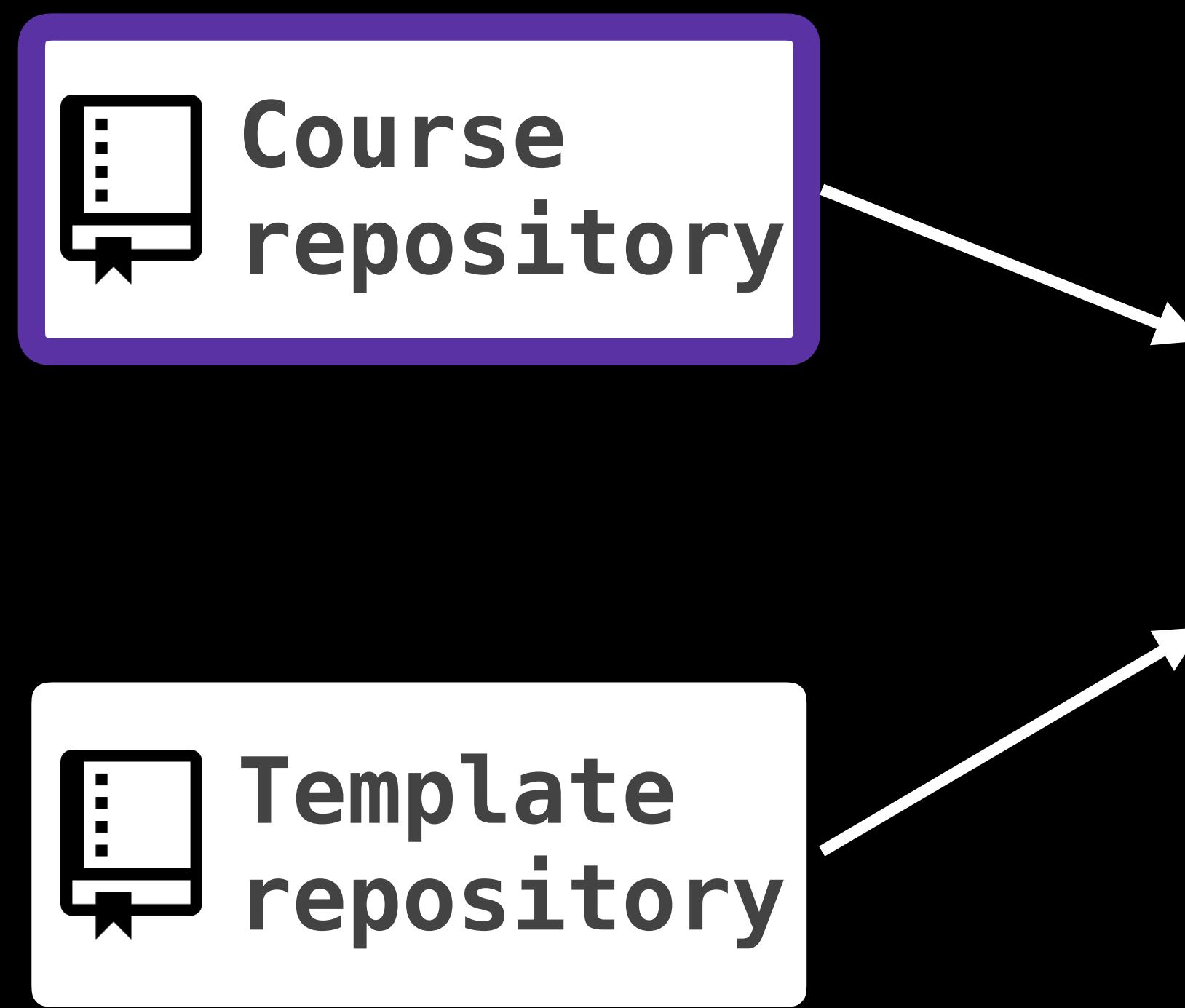
Let's create the template repository

Creating a course on GitHub Learning Lab



A screenshot of a web browser window displaying the GitHub Learning Lab interface at lab.github.com. The page title is "Introduction to GitHub". The top navigation bar includes links for "Learning Lab", "Courses", "Learning Paths", and "For Organizations". Below the title, there is a brief description: "Your sidekick for getting started on GitHub" followed by "Git GitHub hectorsector/github-slideshow". Three tabs are visible: "Progress" (selected), "Details", and "Course Dashboard". A progress bar shows a green segment followed by a grey segment. The "Course steps" section lists five numbered steps: 1. Assign yourself (marked with a green checkmark), 2. Turn on GitHub Pages (description: Turn on GitHub Pages in the settings page of the repository.), 3. Close an issue (description: Cease a conversation by closing an issue.), 4. Create a branch (description: Create a branch for introducing new changes.), and 5. Commit a file (description: Commit your file to the branch.).

Creating a course on GitHub Learning Lab



Screenshot of the GitHub Learning Lab interface at lab.github.com. The page displays the "Introduction to GitHub" course. At the top, there are navigation links: Learning Lab, Courses, Learning Paths, and For Organizations. Below the title, it says "Your sidekick for getting started on GitHub". The course is associated with "Git" and "GitHub" and has a link to "hectorsector/github-slideshow". A progress bar shows completion at approximately 25%. The "Course steps" section lists five numbered tasks:

- 1 **Assign yourself**
- 2 **Turn on GitHub Pages**
Turn on GitHub Pages in the settings page of the repository.
- 3 **Close an issue**
Cease a conversation by closing an issue.
- 4 **Create a branch**
Create a branch for introducing new changes.
- 5 **Commit a file**
Commit your file to the branch.

The course repository

A screenshot of a GitHub repository page. The repository name is `githubtraining/introduction-to-github`, labeled as Private. The page shows 67 commits and 1 branch. A pull request from `hectorsector` has been merged. The repository contains files like `responses`, `.gitignore`, `README.md`, and `config.yml`. A large text block discusses GitHub Learning Lab.

github.com

githubtraining / introduction-to-github Private

Code Issues 1 Pull requests 0 Projects 0 Wiki

template repo → <https://github.com/githubtraining/cap...>

learning-lab course Manage topics

67 commits 1 branch

Branch: master New pull request

hectorsector Merge pull request #19 from githubtraining/audit ...

`responses` add next course suggestions

`.gitignore` Init to winit

`README.md` Init to winit

`config.yml` add vs code new branch instructions

`README.md`

People use GitHub to build some of the most advanced technologies in the world. Whether you're building a new game, there's a whole community and set of tools on GitHub.

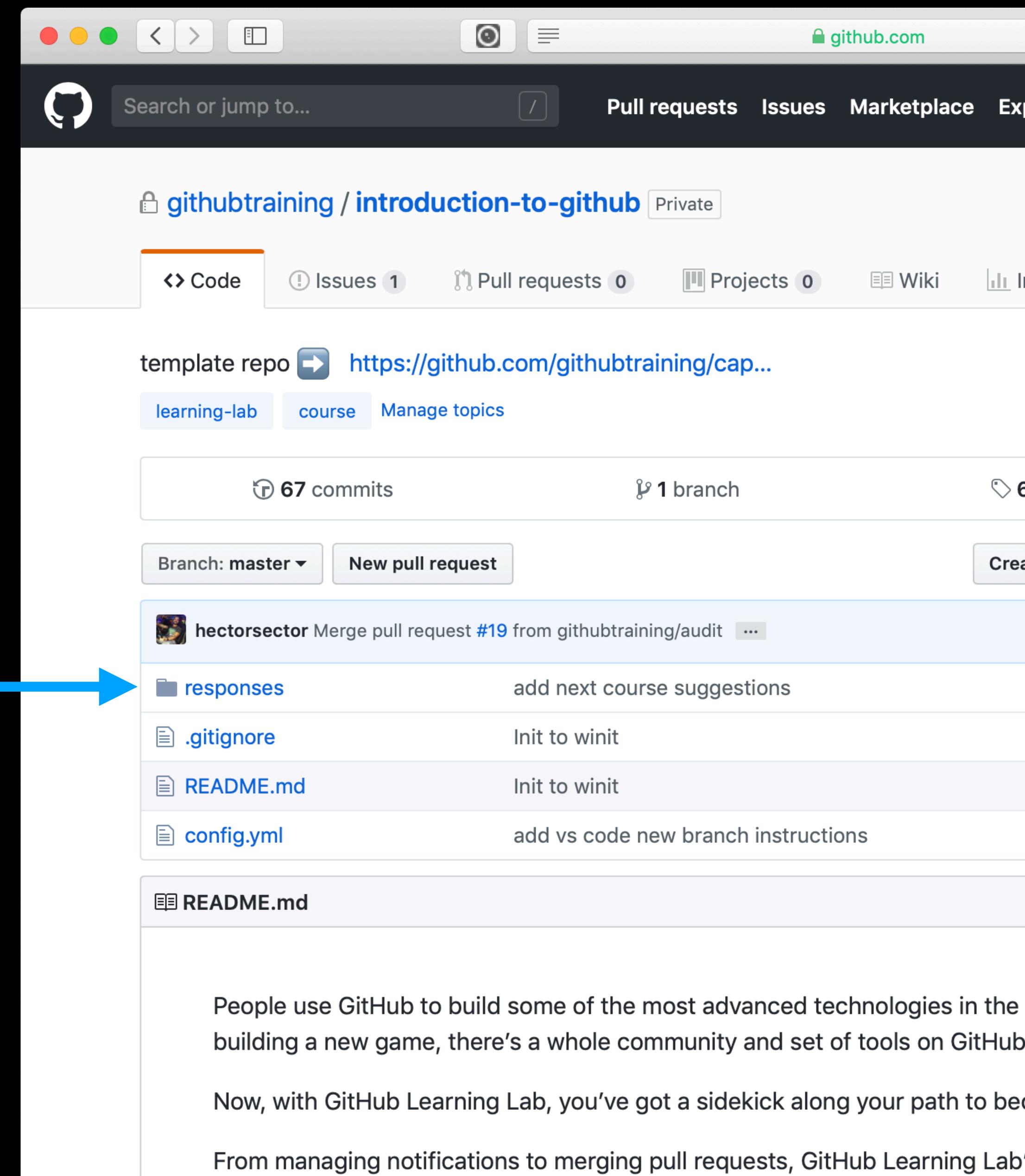
Now, with GitHub Learning Lab, you've got a sidekick along your path to becoming a developer.

From managing notifications to merging pull requests, GitHub Learning Lab makes it easy to learn and grow.

The course repository

- responses/

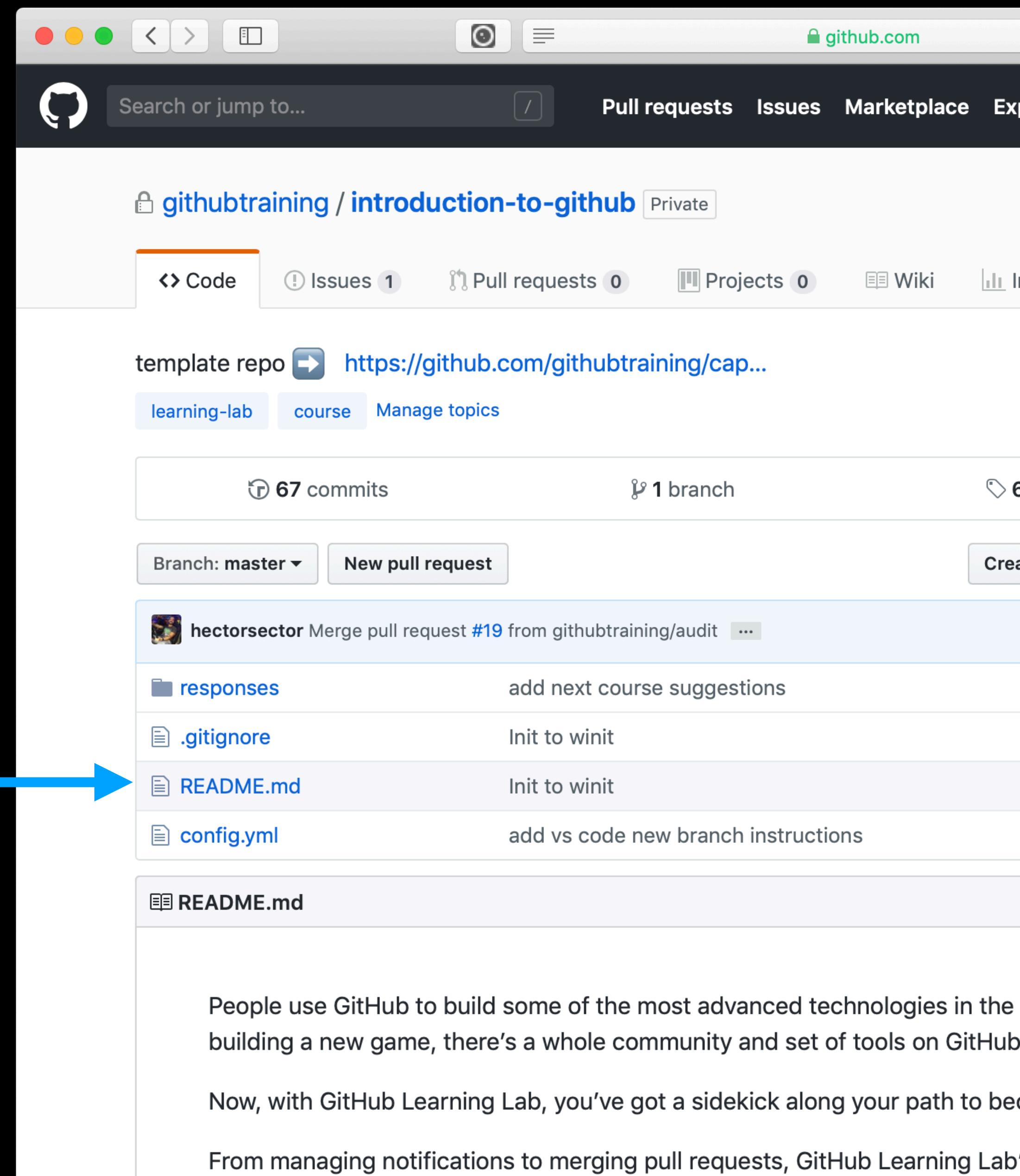
What the bot says in issues and PRs. All in Markdown.



The course repository

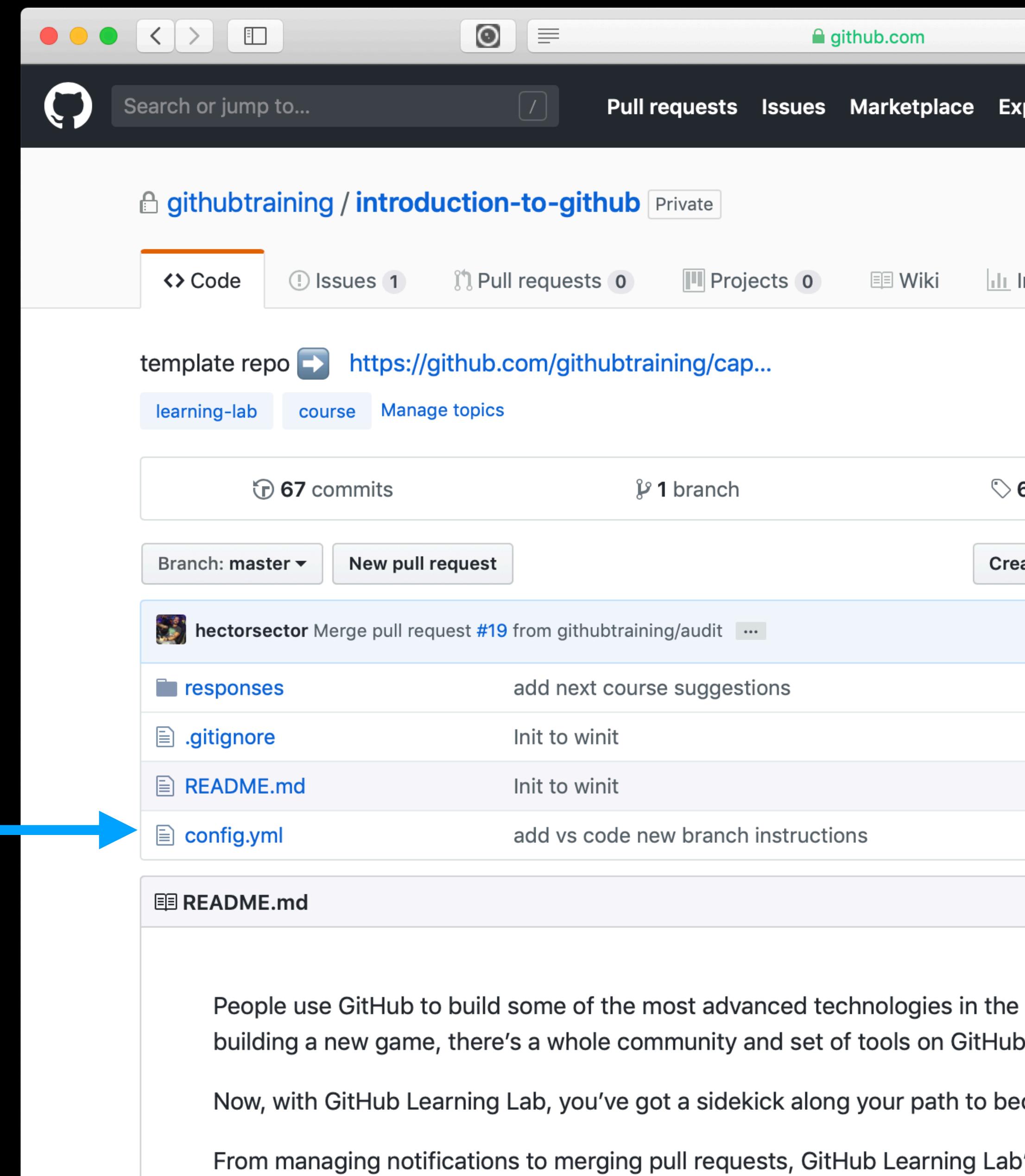
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Course description, shown in Learning Lab.



The course repository

- responses/
What the bot says in issues and PRs. All in Markdown.
- README.md
Course description, shown in Learning Lab.
- config.yml
Course metadata, setup information for the learner's repo, and course logic.



Let's create the course repository

lab.github.com/githubtraining/write-a-learning-lab-course

A screenshot of a web browser displaying the GitHub Learning Lab course page for "Write a Learning Lab course". The browser has a light gray header bar with standard window controls (red, yellow, green buttons, back, forward, close) and a URL bar showing "lab.github.com". Below the header is a navigation bar with links: "Learning Lab" (highlighted with a black icon), "Courses", "Learning Paths", "For Organizations", and "Docs". To the right of the navigation is a "Sign in" button. The main content area shows the course title "Write a Learning Lab course" in large bold letters, followed by a subtitle "Learn how to author your own Learning Lab course." Below this is a call-to-action box with the heading "Join this course", a description of GitHub Learning Lab, and a "Sign in with GitHub" button. A larger text block explains the purpose of Learning Lab, and at the bottom, there's a note about registering for starter files or completing course steps.

Learning Lab

Courses Learning Paths For Organizations Docs

Sign in

githubtraining /

Write a Learning Lab course

Learn how to author your own Learning Lab course.

Join this course

GitHub Learning Lab is an integrated learning experience to help you learn how to use GitHub by using GitHub. Complete courses at your own pace on collaboration, workflow, and more.

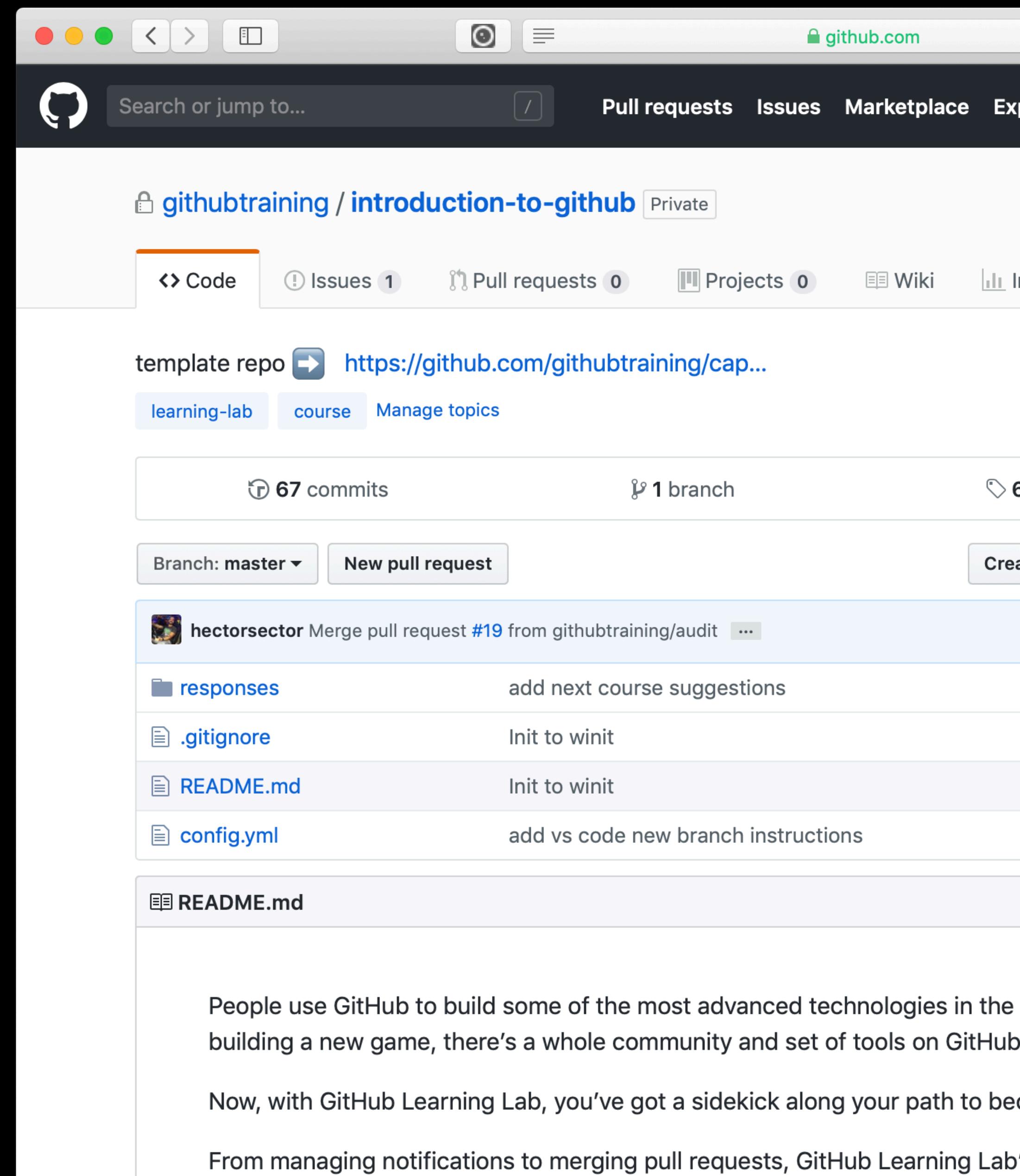
[Sign in with GitHub](#)

Learning Lab helps people build real world skills through hands-on activities. This course streamlines the course building process, and gives you all the tools you need to help others learn.

Register for this course to get the starter files needed to build your Learning Lab course, or complete the course steps for a

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Course description, shown in Learning Lab.
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Course metadata, setup information for the learner's repo, and course logic.



config.yml

329 lines (314 sloc) | 8.92 KB

[Raw](#) [Blame](#) [H](#)

```
1 title: Introduction to HTML
2 tagline: Take your first steps in the world of programming
3 description: If you are looking for a quick and fun introduction to the exciting world of programming, thi
4 template:
5   name: intro-html
6   repo: intro-to-html-template
7   description: 'A robot powered training repository :robot:'
8 before:
9   - type: createIssue
10    title: Welcome
11    body: 01-welcome.md
12   - type: updateBranchProtection
13
14 steps:
15   - title: Turn on GitHub Pages
16     description: Turn on GitHub Pages in the settings page of the repository.
17     event: deployment
18     link: '{{ repoUrl }}/issues/1'
19     actions:
20       - type: respond
21         with: 00-openapr.md
22         issue: 1
23
24   - title: Open a pull request
25     description: Open a pull request.
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config.yml

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Pointer to template repository

Actions to take as repo is being set up

Training at scale: Build

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Pointer to template repository

Actions to take as repo is being set up

Each step of the course

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Pointer to template repository

Actions to take as repo is being set up

Each step of the course

Event that triggers the step

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Pointer to template repository

Actions to take as repo is being set up

Each step of the course

Event that triggers the step

Action to take when triggered

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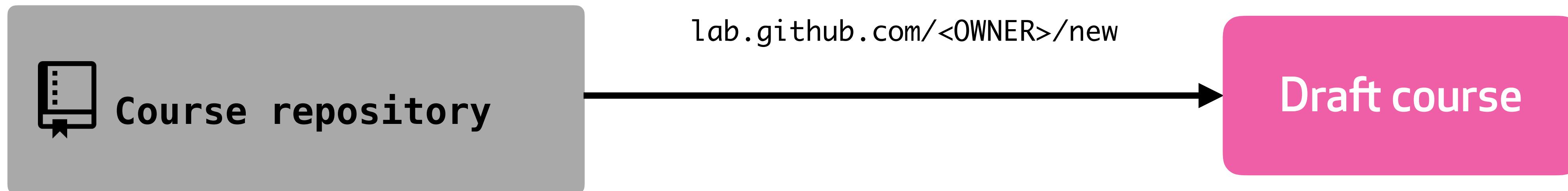
The lifecycle of a course

The lifecycle of a course

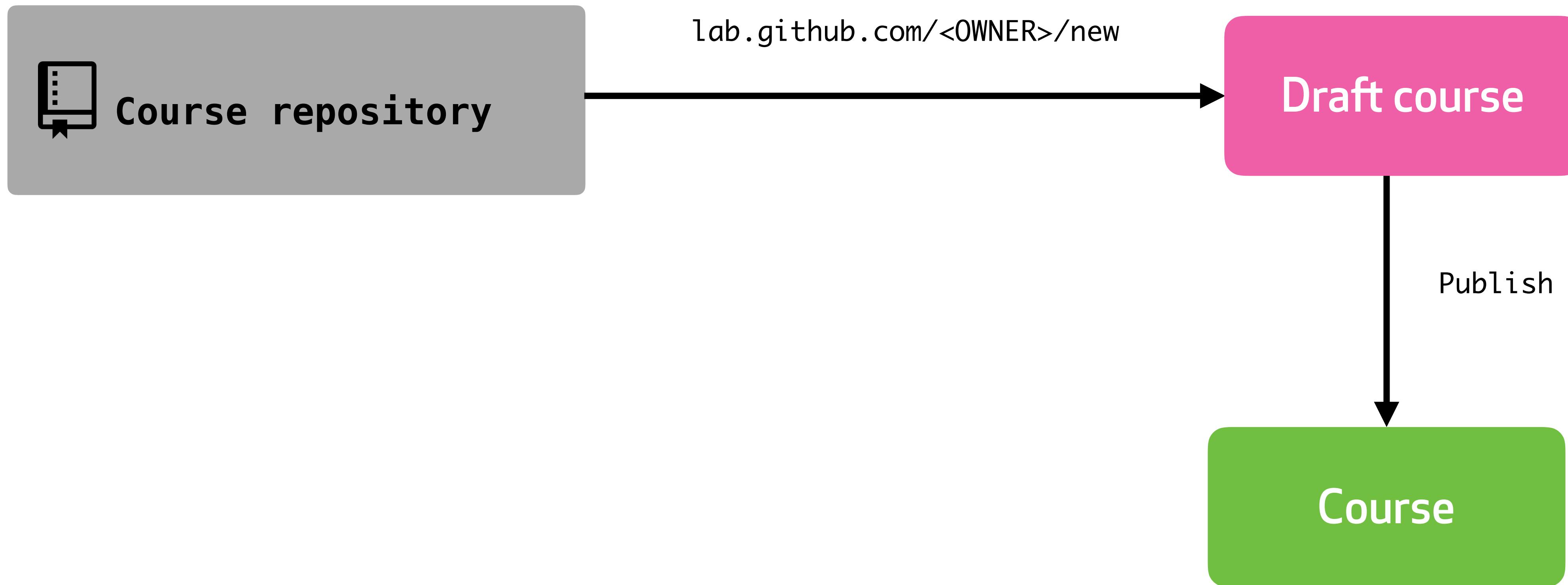


Course repository

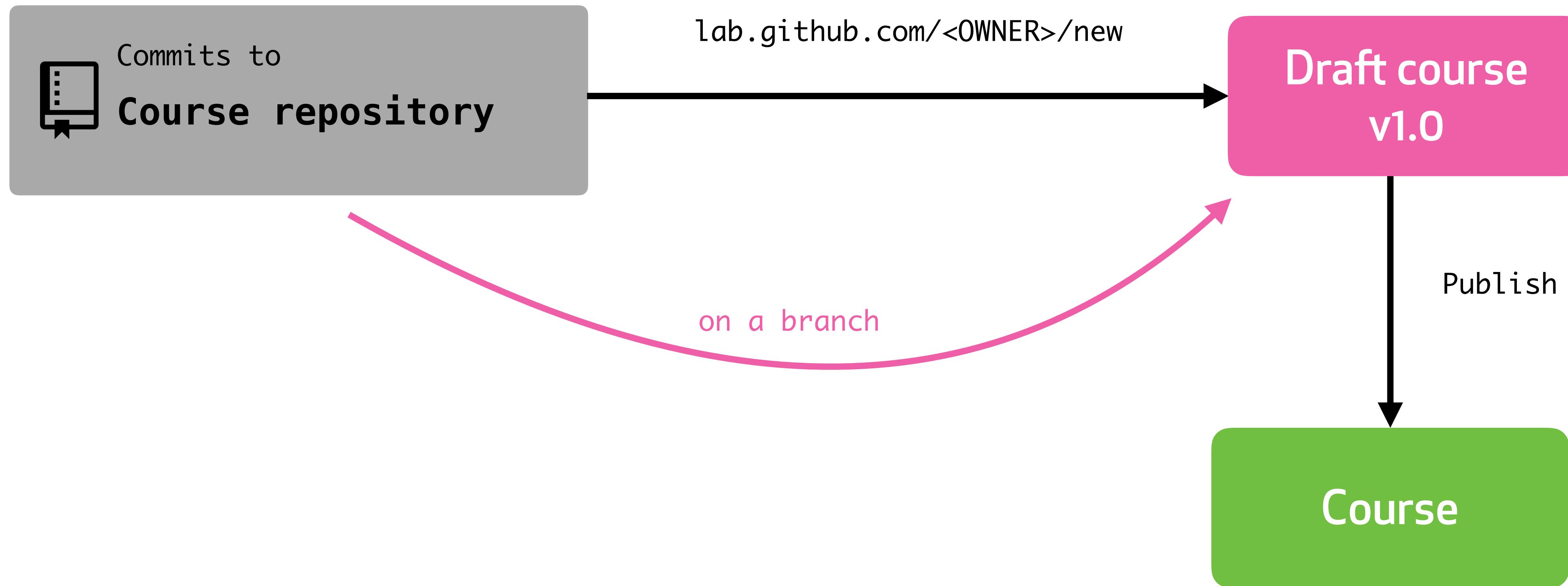
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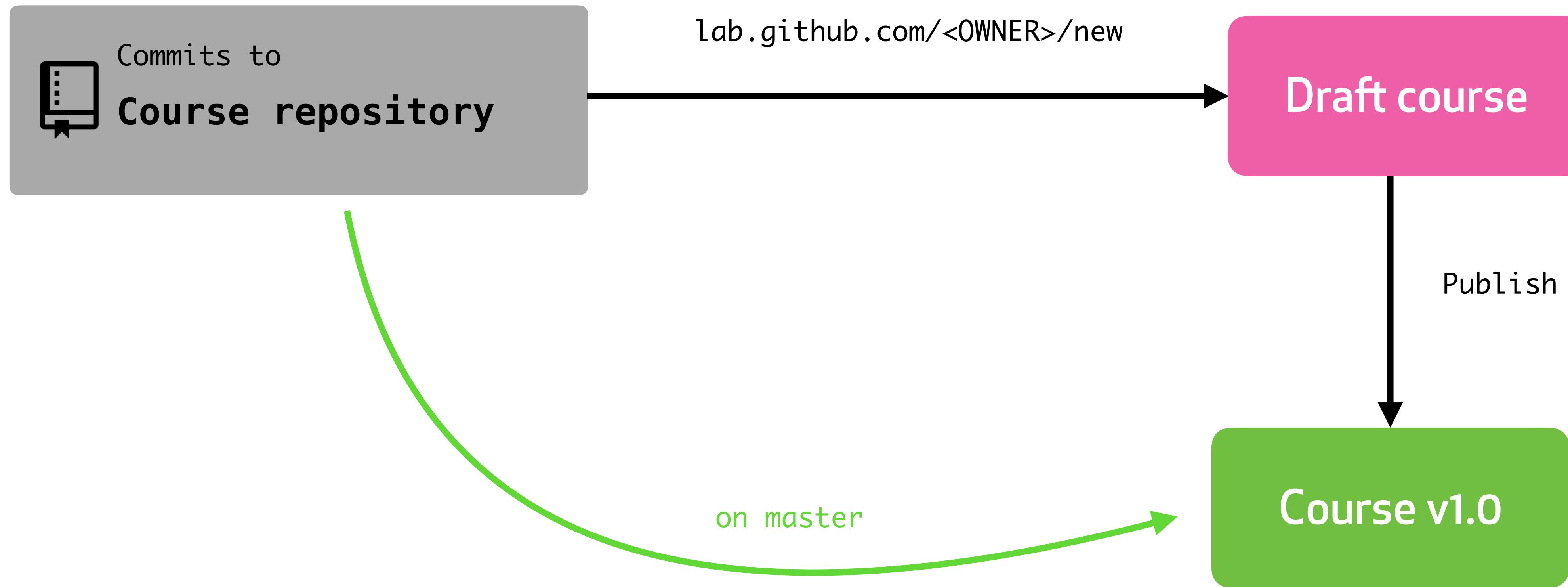
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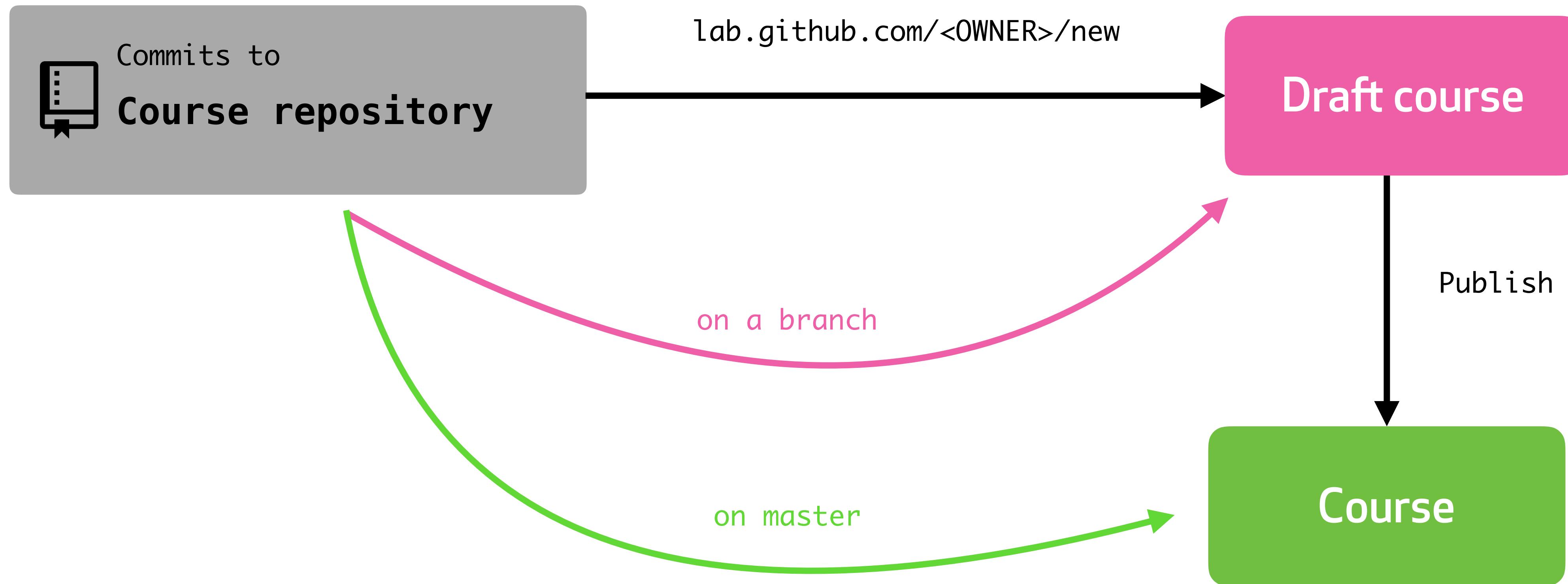
The lifecycle of a course



The lifecycle of a course



The lifecycle of a course



Let's publish

The screenshot shows a web browser window for `lab.github.com` with the URL `hectorsector | GitHub Learning Lab`. The page features a navigation bar with links to 'Learning Lab', 'Courses', 'Learning Paths', 'For Organizations', and 'Docs'. A blue button on the right side of the header has a '+' icon and a small profile picture. Below the header, there's a user profile for `hectorsector` with a photo of a man sitting in a car. A large blue call-to-action button contains the text `lab.github.com/<OWNER>/new`. The main content area is titled 'Create a Course' and includes a note: 'The GitHub Learning Lab app must be installed on your course repository before you can create a course. Once it is installed, you can create a course by providing the name of the repository here.' Below this, there are fields for 'Owner' (set to `hectorsector`) and 'Repository name *' (set to `hubot`). A note below the fields states: 'Your course will be public for anyone to see and register for. Interested in private courses for members of your organization? [Let us know.](#)' At the bottom is a green 'Create course' button. A yellow banner at the very bottom of the slide reads 'Training at scale: Build'.

lab.github.com/hectorsector | GitHub Learning Lab

hectorsector | GitHub Learning Lab

Learning Lab Courses Learning Paths For Organizations Docs

hectorsector

hectorsector on GitHub

lab.github.com/<OWNER>/new

Create a Course

The GitHub Learning Lab app must be installed on your course repository before you can create a course. Once it is installed, you can create a course by providing the name of the repository here.

Owner Repository name *

hectorsector / hubot

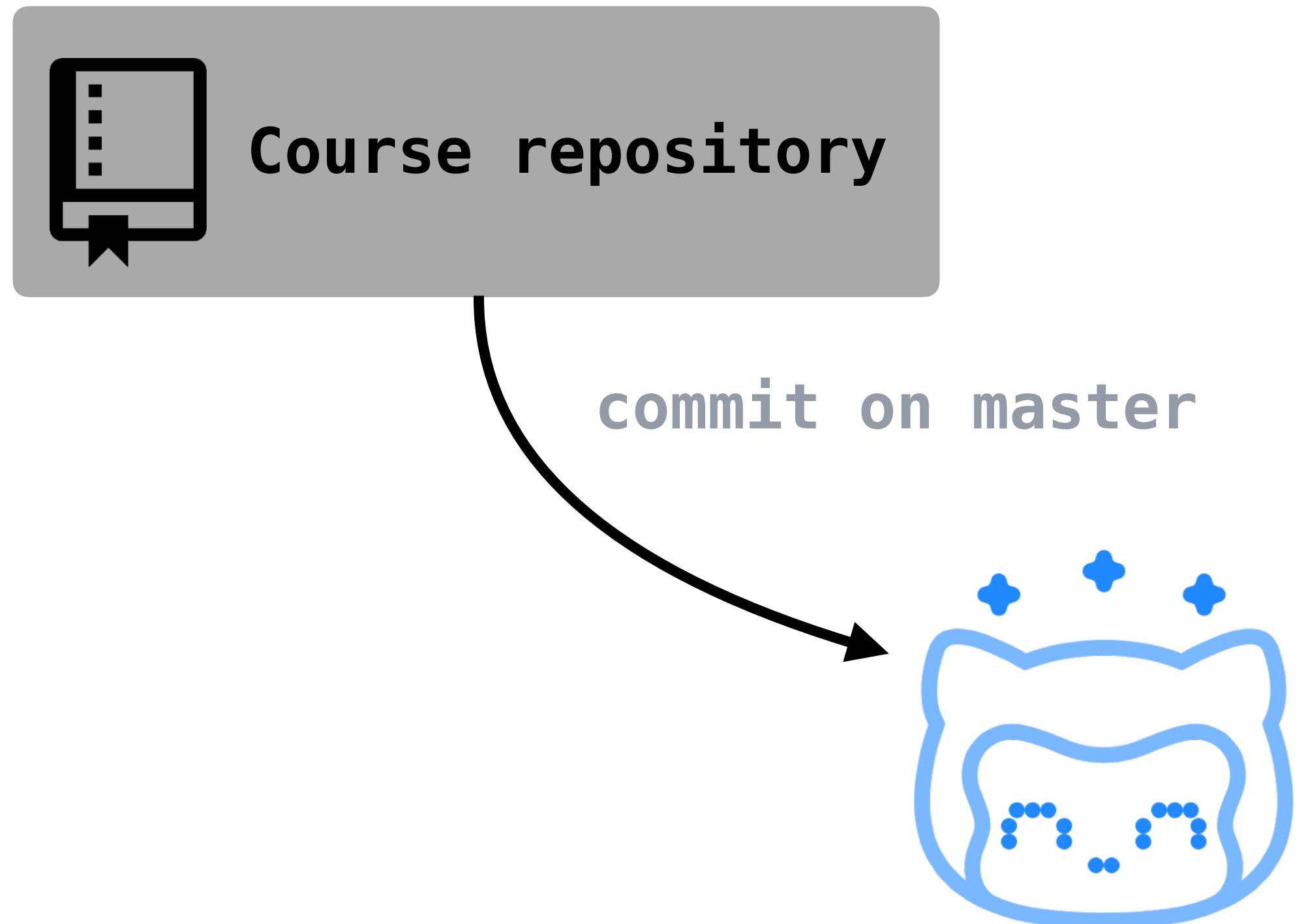
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Create course

Training at scale: Build

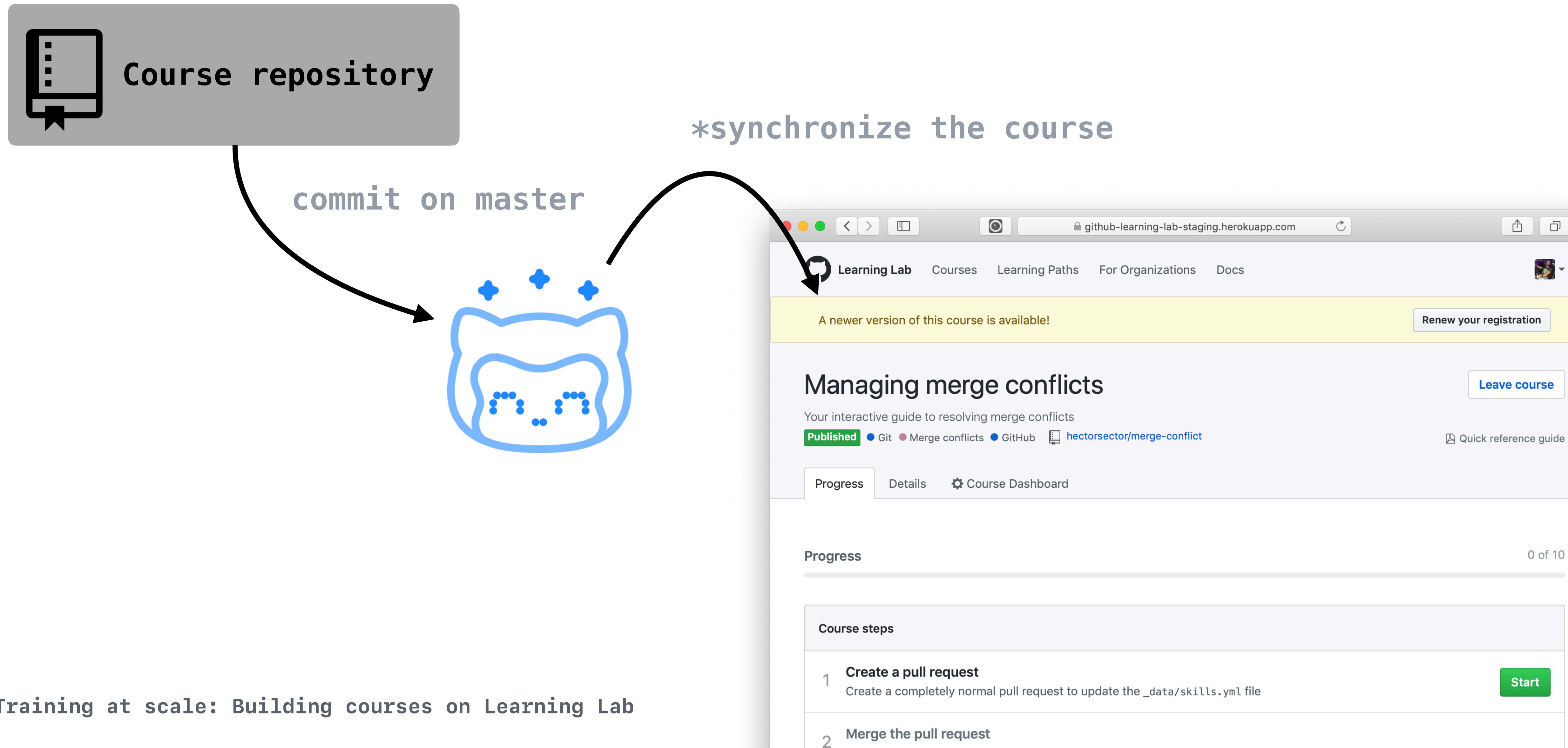
When you first create a course, it will be in draft. Only you and other administrators of the course repository will be able to take the course while it is in draft. Once you have tested the draft course, you will be able to publish it for other users.

Versioning courses



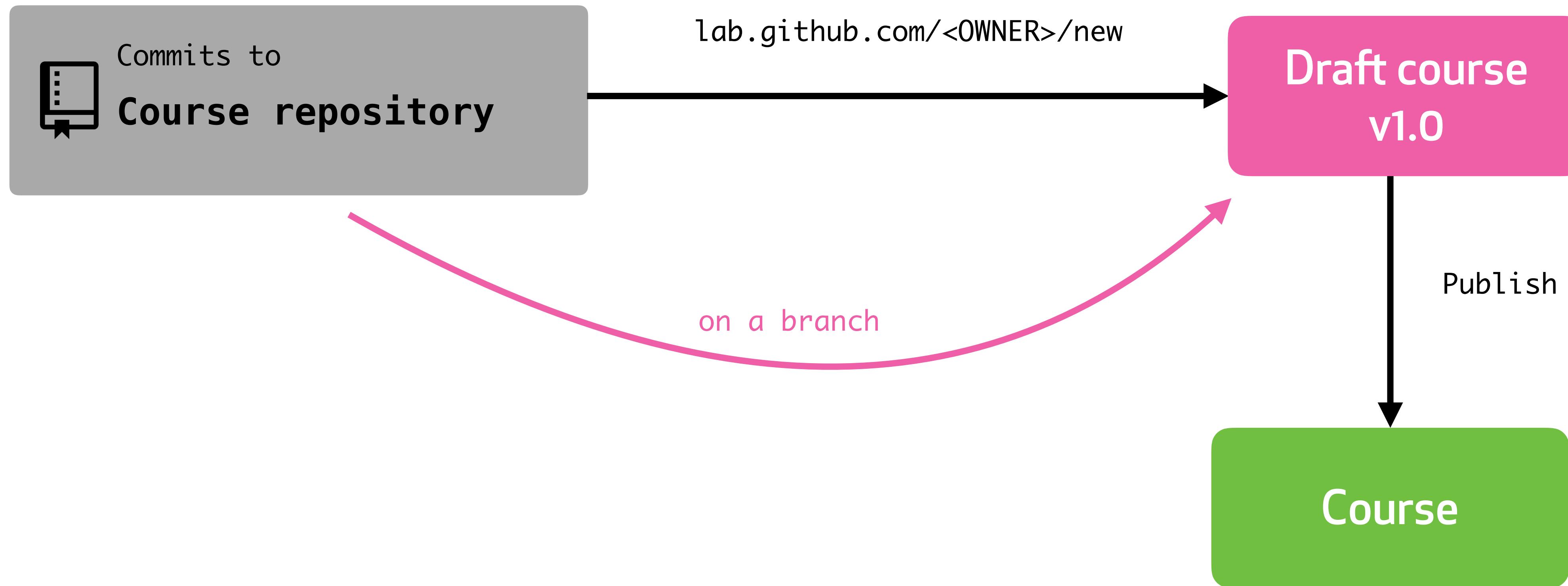
*minor changes don't generate alerts

Versioning courses

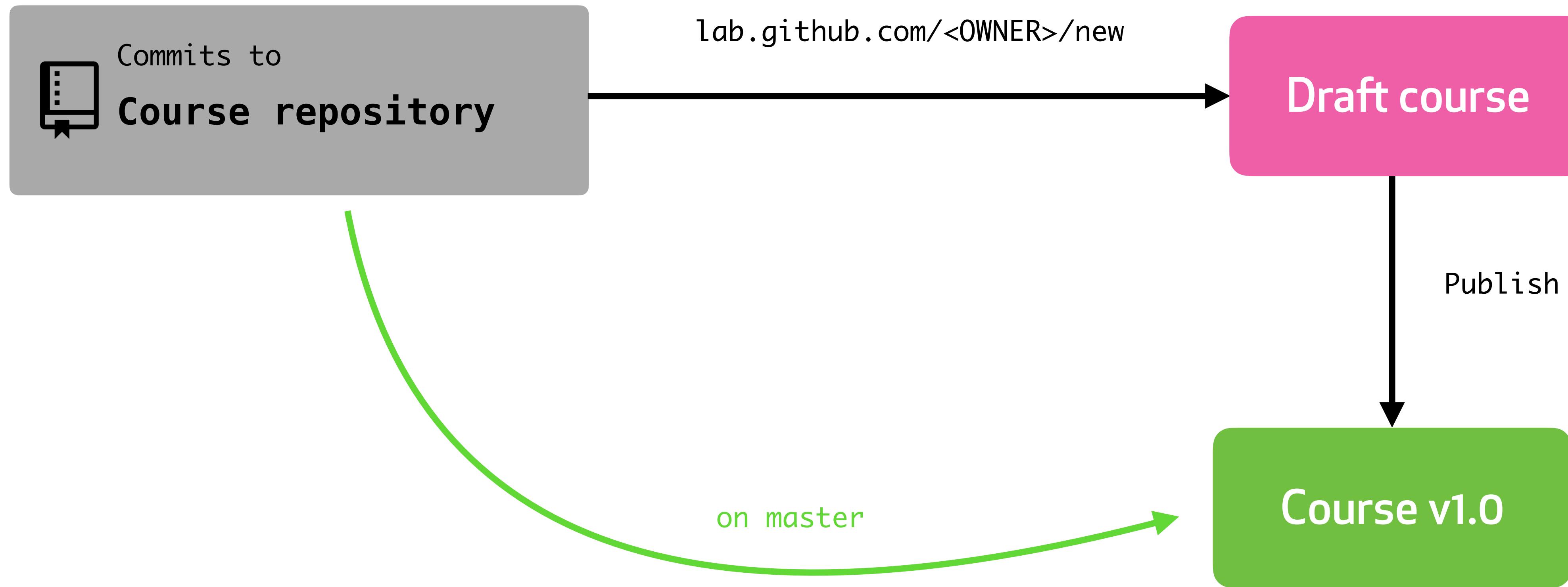


Let's modify our course

The lifecycle of a course



The lifecycle of a course



About learning paths

- A **learning path** is a collection of learning resources: courses and links to any other resource.
- Create learning paths to structure learning for your developers.

The screenshot shows a web browser window with the URL `lab.github.com` in the address bar. The main title is "First Day on GitHub" by The GitHub Training Team. The page content is a learning path titled "First Day on GitHub" designed for new users. It includes five course cards: "What is GitHub?", "Introduction to GitHub", "Git Handbook", "Communicating using Markdown", and "Uploading your project to GitHub". Each card has a "Check it out >" link.

First Day on GitHub

by The GitHub Training Team

Welcome to GitHub! We're so glad you're here. We know it can look overwhelming at first, so we've put together a few of our favorite courses for people logging in for the first time

What is GitHub?

Hey, it's your first time here, so let's not take any chances. Check out this short video to understand why people use GitHub.

[Check it out >](#)

Introduction to GitHub

That video is pretty cool, right? If you want to learn how to use the workflow described in that video, take this course.

[Check it out >](#)

Git Handbook

By now you are probably wondering what a Git is and why it is important in writing code. We have you covered with this short article on version control with Git.

[Check it out >](#)

Communicating using Markdown

GitHub is all about collaboration and we collaborate in issues in pull requests. Learn how to get your point across with the world's easiest text formatting syntax.

[Check it out >](#)

Uploading your project to GitHub

Now that you know what GitHub does, I bet you're ready to move all of those projects off your local machine. This course will show you how.

[Check it out >](#)

Metrics: The course dashboard

Screenshot of the GitHub Course Metrics dashboard for a release-based workflow.

Header: lab.github.com, Active commit: 26371c1, Registrations: 1023

Left Sidebar:

- Insights (selected)
- Course Steps
- Template Repo

Versions:

- All Versions
- 1.1.0

Metrics Table:

Total registrations	1023
Registrations in progress	495
Inactive registrations	264
Completed registrations	290
Created at	Thursday, November 29th 2018, 4:48:10 pm
Course version	1.1.0 · 26371c1
Repository	githubtraining/release-workflow
Last Updated	Tuesday, December 4th 2018, 2:59:34 pm
Visibility	Public

Step Progress:

Step completion, last 7 days, version 1.1.0

Individual step completion, last 7 days, version 1.1.0:

- Create a beta release
- Create a project board
- Triage issues in a project
- Add a new feature on the release branch
- Merge the new feature to the release branch
- Open a release pull request
- Approve changes for the next release
- Install and configure a GitHub app
- Merge the config for Release Drafter
- Merge the release branch
- Finalize the release
- Approve a hotfix pull request
- Approve the backport pull request
- Create release v1.0.1



Resources

Traini

The screenshot shows a web browser window for lab.github.com/docs. The page features a navigation bar with links for Learning Lab, Courses, Learning Paths, For Organizations, Docs, and Sign in. A sidebar on the left contains a list of topics: 1. Docs home, 2. Using Learning Lab (with sub-points: Authorizing, Installing, Joining a course, Selecting course preferences, Leaving a course), and 3. Writing a course (with sub-points: Planning, Building: Create the repositories, Building: Content for the catalog, Building: The template block, Building: Course preferences, Building: The before block, Building: The steps block, Building: Events as triggers, Building: Step links). The main content area includes a GitHub cat icon, a title 'Welcome to the GitHub Learning Lab docs', a paragraph about the purpose of the documentation, and a list of key pages to explore.

1. [Docs home](#)

2. Using Learning Lab

- Authorizing
- Installing
- Joining a course
- Selecting course preferences
- Leaving a course

3. Writing a course

- Planning
- Building: Create the repositories
- Building: Content for the catalog
- Building: The template block
- Building: Course preferences
- Building: The before block
- Building: The steps block
- Building: Events as triggers
- Building: Step links

Sign in



Welcome to the GitHub Learning Lab docs

We're glad you're here! These docs describe every part of Learning Lab, from writing courses to installing Learning Lab for Enterprise.

Use the sidebar to help you get going or jump right into some of the following key pages:

- [Quickstart on building courses](#) if you've been here before and are just looking for a tidy checklist.
- [Available actions](#) for a quick reference to actions and their parameters.
- [Learning Lab for GitHub Enterprise](#) to learn more or install for your Enterprise instance.

lab.github.com/githubtraining/write-a-learning-lab-course

The screenshot shows a web browser window with the URL lab.github.com/githubtraining/write-a-learning-lab-course in the address bar. The page content is as follows:

- Header:** Includes the GitHub logo, navigation links for "Learning Lab", "Courses", "Learning Paths", "For Organizations", "Docs", and a "Sign in" button.
- Breadcrumbs:** Shows the path "githubtraining / Write a Learning Lab course".
- Section Header:** A large, bold title "Write a Learning Lab course".
- Text:** "Learn how to author your own Learning Lab course."
- Call-to-action box:** A callout box containing:
 - Join this course**
 - A description of GitHub Learning Lab: "GitHub Learning Lab is an integrated learning experience to help you learn how to use GitHub by using GitHub. Complete courses at your own pace on collaboration, workflow, and more."
 - A green "Sign in with GitHub" button.
- Text area:** A large text block explaining the purpose of Learning Lab: "Learning Lab helps people build real world skills through hands-on activities. This course streamlines the course building process, and gives you all the tools you need to help others learn."
- Footer:** A small note at the bottom: "Register for this course to get the starter files needed to build your Learning Lab course, or complete the course steps for a

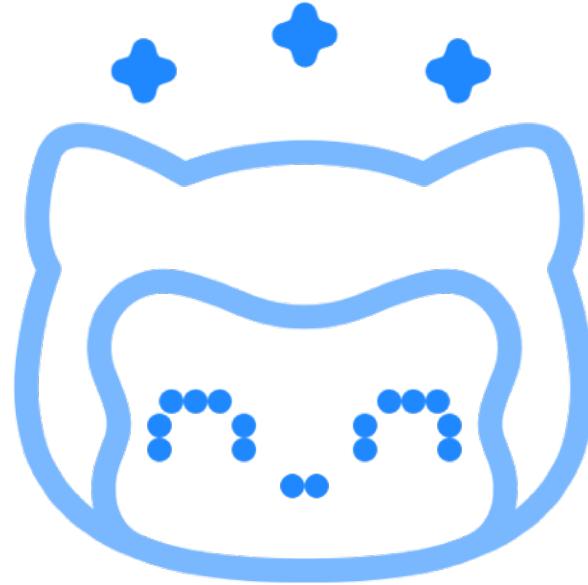


Webcast on course authoring

Tuesday, May 28, 16:00 CEST

<https://git.io/fjYr2>

We're here to help



learninglab@github.com



GitHub Enterprise Server
GitHub Enterprise Cloud



Hire professional
services to create
courses for you