

# SciLifeLab Training Hub Guide to Hosting Course Content

This guide is for instructors who are developing course material and provides an overview of options for hosting course content within the SciLifeLab ecosystem. This material condenses Module 3 of the course [Training Material made FAIR by Design](#), for more information we recommend consulting that resource.

## Resources at SciLifeLab

SciLifeLab offers storage through Nextcloud, Google Drive, and has a GitHub Organization dedicated to training. Different courses may need to use different combinations of these resources to achieve course data being archived and stored according to FAIR and Open Science principles. Contact the Training Hub for discussing what specific combination would work best for your course!

## Basic recommended content hosting

The SciLifeLab Training Hub recommends the following hosting solution as a basic workflow for course development, delivery, sharing, and archiving. The [SciLifeLab Train-the-Trainer](#) and [Open Science in the Swedish Context](#) courses follow this structure and can be used as examples.

### 1. Course Development

We recommend storing developing multimedia material such as slideshows, assignments, syllabus, and learning outcomes in a Google Drive folder for maximum accessibility across all potential collaborators. All SciLifeLab employees have access to the GSuite tools, and access to folders can be controlled prior to course delivery. The Training Hub is able to host folders for courses so that these are unlinked from personal employee accounts.

### 2. Course Delivery

As Google Drive folders have only basic version control and no global discovery, course delivery must be integrated with a website or similar container for findability and reusability. The Training Hub recommends the use of GitHub Pages to collect the course materials together and provide rich and FAIR metadata by assigning a persistent identifier, link ORCIDs, etc. We offer GitHub templates that can be used for all SciLifeLab-affiliated courses.

### 3. Sharing material

In order to share course materials with participants and collaborators, we recommend using Google Drive folders or the SciLifeLab Nextcloud, depending on the situation. General course material such as presentations and transcripts can be served to the course website through NextCloud or Google Drive folders using a read-only permission setting, or hosted in the GitHub repository itself for download. All materials that involve participant work, group structures, feedback, etc. should be shared specifically with participants in the course using restrictive folder permissions in order to comply with GDPR.

#### 4. Archiving course data

The SciLifeLab Training Hub recommends using a release structure, where each new session of a course is added on the course website as a new version that updates dates, content, etc. This allows past participants to access the exact version of the course that they took, and allows instructors to build upon course material without destroying previous years' data.

#### Diversity in course content hosting

The types of courses available at SciLifeLab range from wet lab work to fully online R and Python courses, meaning there is great variety in the types of material produced and delivered. As course materials are an important type of data and work produced by SciLifeLab, we are committed to finding solutions that store and record SciLifeLab training according to Open Educational Resource standards.

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Have questions? Connect with us at [traininghub@scilifelab.se](mailto:traininghub@scilifelab.se)