

Charting a course for
Open data literacy
education

Tim Dennis, Cody Hennesy,
& Zhiyuan Yao | IASSIST 2024
z.umn.edu/lc_iassist



What we'll cover today

- New lesson adoption workflow for Library Carpentry
 - Encourage creation of new data literacy lessons
 - Carpentries infrastructure and peer review
- Lessons for Librarians in Open Science
 - IMLS-funded program at UCLA
 - Collaborative lesson development
 - Partnership with Library Carpentry

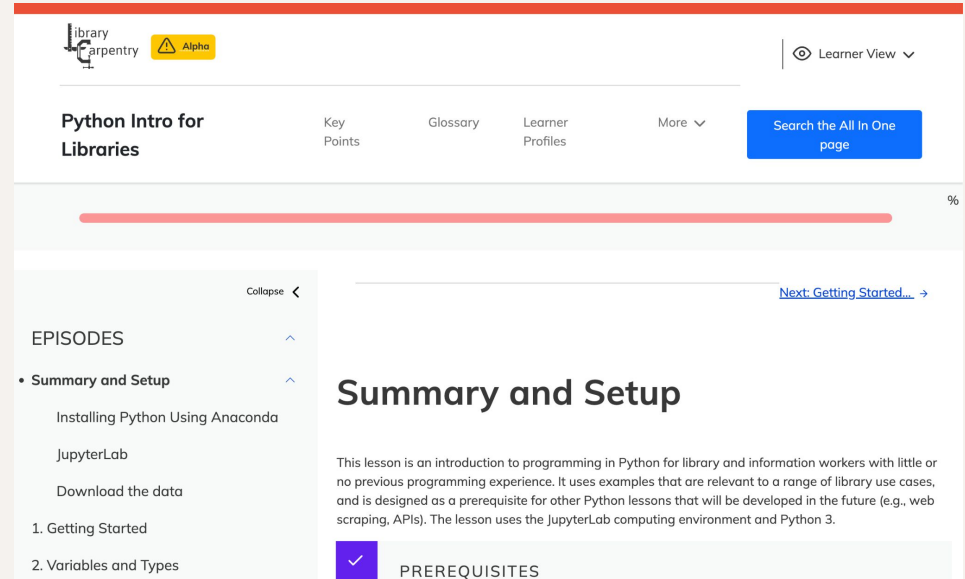
LC Curriculum Advisory Committee

- Library Carpentry
 - Open-source lessons for LIS folks to build software and data skills.
 - Part of the Carpentries (Software & Data Carpentry)
 - Lessons on Tidy Data, Unix Shell, Git, OpenRefine, Python, R, MarcEdit, SQL, and more.
- LC-CAC provides oversight, vision, and leadership for lessons
 - This work by Tim, Cody, Phil Reed, Annajiat Alim Rasel, & Mark Laufersweiler

Lesson adoption

Carpentries workbench

- Accessible open-source platform via GitHub Pages
- Developed and maintained by Carpentries



The screenshot shows the 'Python Intro for Libraries' lesson page. At the top, there is a navigation bar with the 'library Carpentry' logo, an 'Alpha' badge, and a 'Learner View' dropdown. Below the navigation bar, the page title 'Python Intro for Libraries' is displayed, along with links for 'Key Points', 'Glossary', 'Learner Profiles', and a 'More' dropdown. A blue search button labeled 'Search the All In One page' is also present. The main content area features a 'Summary and Setup' section, which is currently expanded. The left sidebar shows a list of episodes, including 'Summary and Setup', 'Installing Python Using Anaconda', 'JupyterLab', and 'Download the data'. The 'Summary and Setup' section contains a description of the lesson and a 'PREREQUISITES' section with a checkmark icon.

Lesson adoption (2)

Carpentries Incubator

- An open space for lesson development and sharing

LC-CAC and lesson authors meet to determine fit

- If there's a fit move through lesson life-cycle



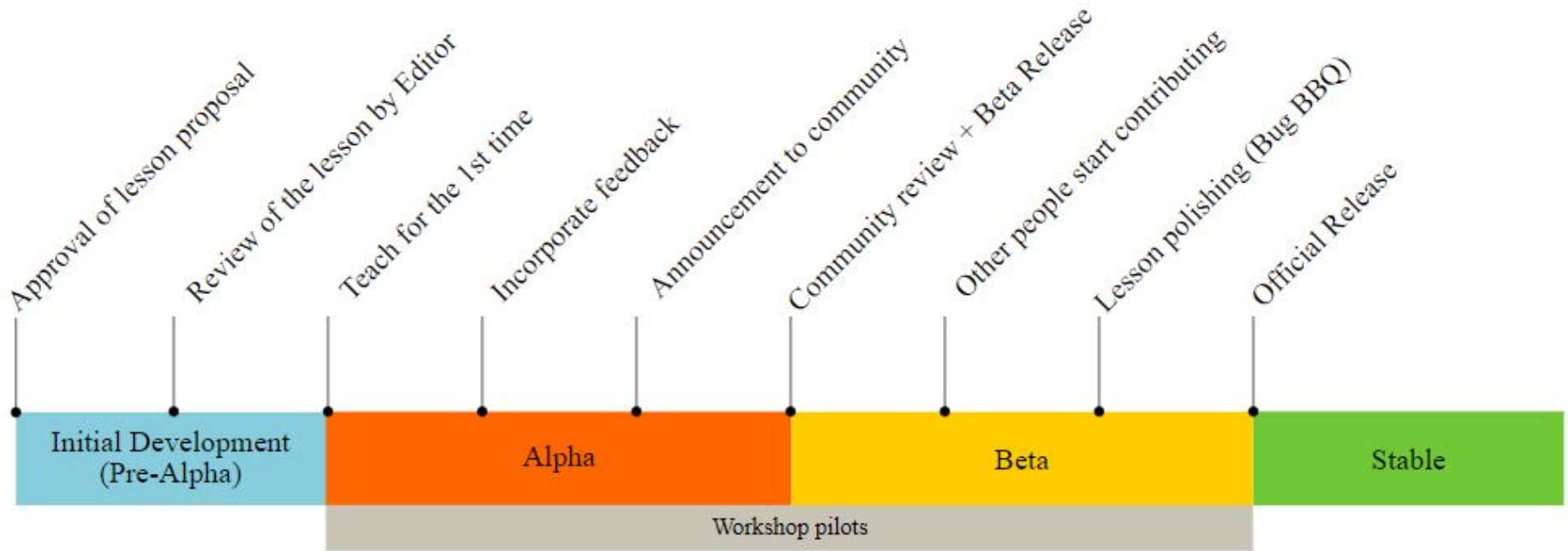
The Carpentries Incubator

Design. Develop. Teach. Reflect. Repeat.

[Submit a lesson proposal](#)

[Browse lessons](#)

Lesson life-cycle



Carpentries Lab

- Open peer review of high-quality, stable lessons.
- Hosts a collection of reviewed lessons
- Option to submit to Journal of Open Source Education



The Carpentries Lab

Peer-reviewed Lessons from The Carpentries Community

Current lessons

- Introduction to AI for GLAM (beta, Incubator)
 - LC-CAC arranged for lesson dev Sprint
- Introduction to Computational Thinking (pre-alpha)
 - LC-CAC migrated to Carpentries workbench

Open Science lessons (UCLA)



**Review
Committee
(11)**



**A Rubric to
Evaluate
Proposals**



**Review
Committee
Meetings**



**Selected
Awardees**



**Collaborative
Lesson
Development
Training**

Open Science lessons (UCLA)

2023

32

Proposals
January 2023

6

Selected
April 2023

Collaborative
Lesson
Development
Workshops
August - October
2023

2024

21

Proposals
February 2024

8

Selected
April 2024

Open Science lessons (UCLA)

- Collaborative lesson development training

The screenshot shows a web interface for 'Collaborative Lesson Development Training'. At the top, there are navigation links for 'Key Points', 'Instructor Notes', 'Extract All Images', and a 'More' dropdown menu. A search bar is located in the top right corner. Below the navigation, a horizontal bar indicates progress. On the left side, there is a sidebar titled 'EPISODES' with a 'Collapse' button. The sidebar lists the following items:

- Summary and Schedule (expanded)
 - Learning Objectives
 - 1. Introduction
 - 2. Lesson Design
 - 3. Identifying Your Target Audience
 - 4. Break
 - 5. Defining Lesson Objectives/Outcomes
 - 6. Episodes
 - 7. Break
 - 8. The Carpentries Workbench

The main content area displays the title 'Summary and Schedule' and a large graphic. The graphic is a green hexagon with a dark blue border, containing the text 'THE CARPENTRIES' at the top, an illustration of an open book with a gear icon on the left page and a bar chart on the right page, and the text 'COLLABORATIVE LESSON DEVELOPMENT TRAINING' at the bottom.

Next: [Introduction...](#) →

Open Science lessons (UCLA)

2023

<i>Lesson</i>	<i>Authors</i>	<i>Status</i>
<u>Research Community Outreach with Open Science Team Agreements</u>	Samantha Teplitzky Ariel Deardorff Samantha Wilairat	Alpha
<u>Open science hardware: an introduction for librarians</u>	Julieta Arancio	pre-Alpha
<u>A Path to Open, Inclusive, and Collaborative Science for Librarians</u>	Irene Vazano Jessica Formoso	Alpha
<u>Data Management (and Sharing) Plans for Librarians 101</u>	Lena Bohman Marla Hertz Daria Orłowska	Alpha
<u>Open Qualitative Research</u>	Nathaniel Porter	pre-Alpha
<u>Reproducible Research Workflows</u>	Agata Bochynska	pre-Alpha

Integration with LC

- Data Management Plan lesson (alpha)
 - CAC met with lesson authors
 - CAC to help arrange for pilot workshops & feedback
 - CAC to do outreach to find instructors
 - Then move into lesson adoption policy

Future plans

LC Lesson Pathways:

- Core
- Data Analysis
- Data Cleaning
- Data Management
- Archives & Digital Libraries
- Cataloging & Metadata

Conclusion

- LC-CAC provides:
 - Guidance to new authors
 - Editorial support
 - Recruitment
- Carpentries provide:
 - Frameworks
 - Infrastructure
 - Collaborative roles
 - Community

thanks

chenney@umn.edu, tdennis@library.ucla.edu