The Carpentries
Sharing software and data skills through community-based training

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Link to these slides: https://bit.ly/453ptwX
Our mission

● The Carpentries builds global capacity in essential data and computational skills for conducting efficient, open, and reproducible research.

● We train and foster an active, inclusive, diverse community that teaches, promotes and models the importance of software and data in research.

● We collaboratively develop openly-available lessons and deliver these lessons using evidence-based teaching practices.

● We focus on people conducting and supporting research.
Our curricula

- **CC-BY licensed**
- **Software Carpentry**
- **Data Carpentry**
- **Library Carpentry**
- **Community lessons**
  - Incubator
  - Lab
Our Workshops

- Teach immediately useful skills
- Use live coding and frequent formative assessment
- Respect the novice experience by explicitly addressing motivation
- Normalize errors and demonstrate recovery

https://carpentries.org
@thecarpentries@fosstodon.org
Our Instructors

● Bring basic technical skills
  ○ Are trained in teaching
  ○ Continue learning through co-teaching

● Carpentries-certified Instructors can:
  ○ Co-teach self-organized workshops locally
  ○ Support development of inclusive, vibrant local communities of practice
  ○ Co-teach centrally-organized workshops with The Carpentries, building skills and connections across the globe
Instructor Training & Certification

- 2-day (or 4-half-day) training
  - Active, participatory instruction
  - Cognitive features of teaching and learning
  - Inclusive, accessible, and motivating classroom practices
  - Carpentries 101

- 3-step checkout process
  - Demonstrate teaching practices
  - Attend a Welcome Session
  - “Get involved”: teach, help, attend, or contribute

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From our surveys:

- “This training was worth my time” - agree or strongly agree: > 90%
- “I would recommend this training to a friend or colleague” (1-10): > 8.5
Local Communities

May include:

- Instructors
- Helpers
- Learners
- Hosts (not pictured)
- Instructor Trainers (optional)
Join Us!

- Become an Instructor: [https://carpentries.org/become-instructor](https://carpentries.org/become-instructor)
- Request a Workshop: [https://carpentries.org/workshops](https://carpentries.org/workshops)
- Champion a Membership: [https://carpentries.org/membership](https://carpentries.org/membership)
- Get our Newsletter: [https://carpentries.org/newsletter](https://carpentries.org/newsletter)
- Follow us on Twitter: [https://twitter.com/thecarpentries](https://twitter.com/thecarpentries)
- Contact me: krword@carpentries.org

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