HSF/IRIS-HEP Training

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The Goal

- Motivation
  - As we collect more and more data and perform increasingly complex analysis, our software is mission critical
    - need to follow industry standards and best practices
  - The broader data analysis ecosystem is evolving faster than ever, but these changes are driven by industry
    - we must keep pace
  - (Almost) all scientists write software but few have formal software education
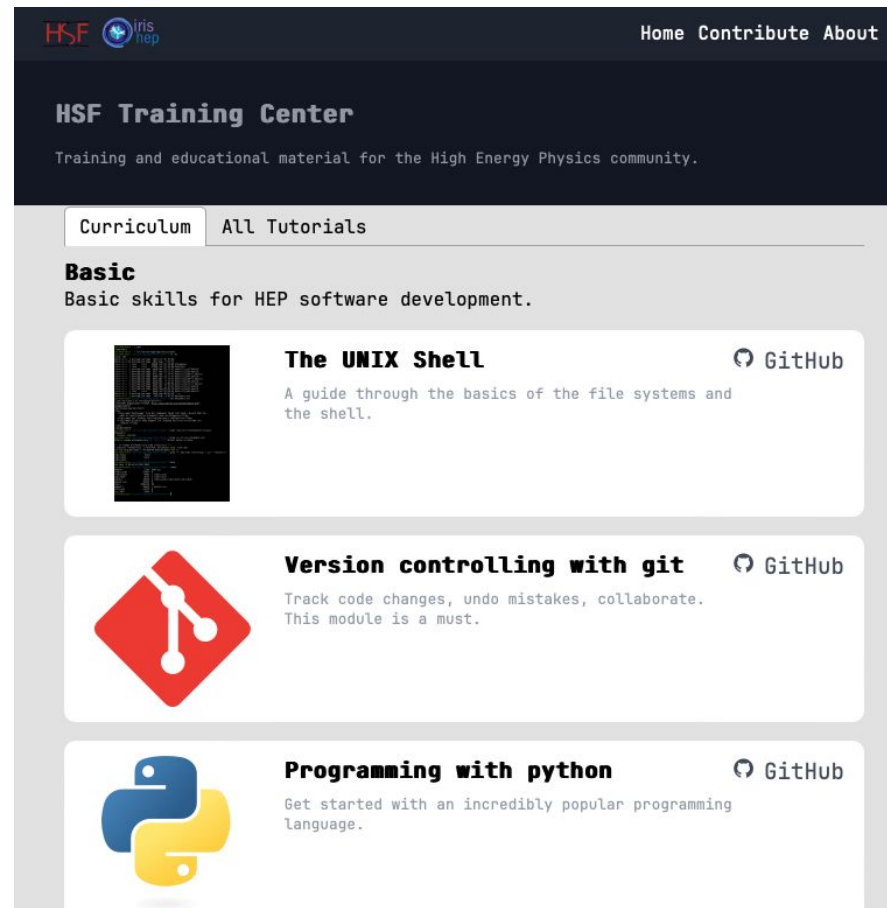   - almost every scientist needs to be trained
- We need a unified, scalable, and sustainable software training framework
  - Scalable: Centrally listed and discoverable, cross-experiment, community involvement
  - Scalable: Teachable by multiple instructors; self-study is built in from the start
  - Sustainable: Open source and maintained collaboratively; incentivised and recognised
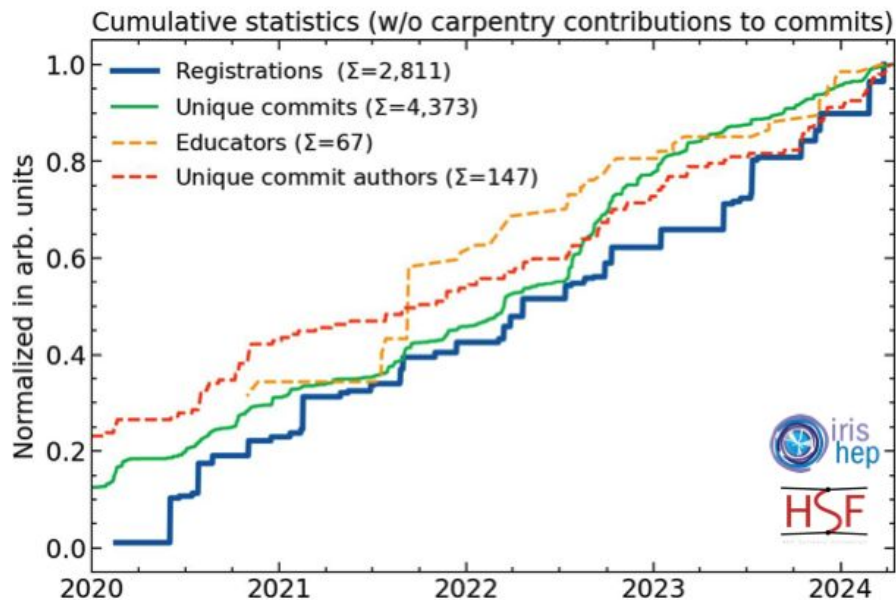
HSF Training Centre

- New HSF Training Center currently lists 25 training modules (including material developed by IRIS-HEP/HSF, The Carpentries, and individual authors)
  - Aim to become focal point for all HEP Training activities
  - Central list of training events (everyone can add)
- Some highlight courses
  - Analysis pipelines and preservation
  - C++: foundations and advanced

Outcomes

Cumulative statistics (w/o carpentry contributions to commits)

- Registrations (Σ=2,811)
- Unique commits (Σ=4,373)
- Educators (Σ=67)
- Unique commit authors (Σ=147)

Build a community through

- Regular organising meetings
- Chat spaces
- Hackathons
- Recognition
  - As much as we can
- Events
  - This year's pre-CHEP workshop is organised by HSF/IRIS-HEP on training - please join us!

Backup

Links to recent presentations

- [HSF Training Overview](), WLCG-HSF Workshop DESY (Alex Moreno)
- [HSF India](), WLCG-HSF Workshop DESY (David Lange)