



# 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

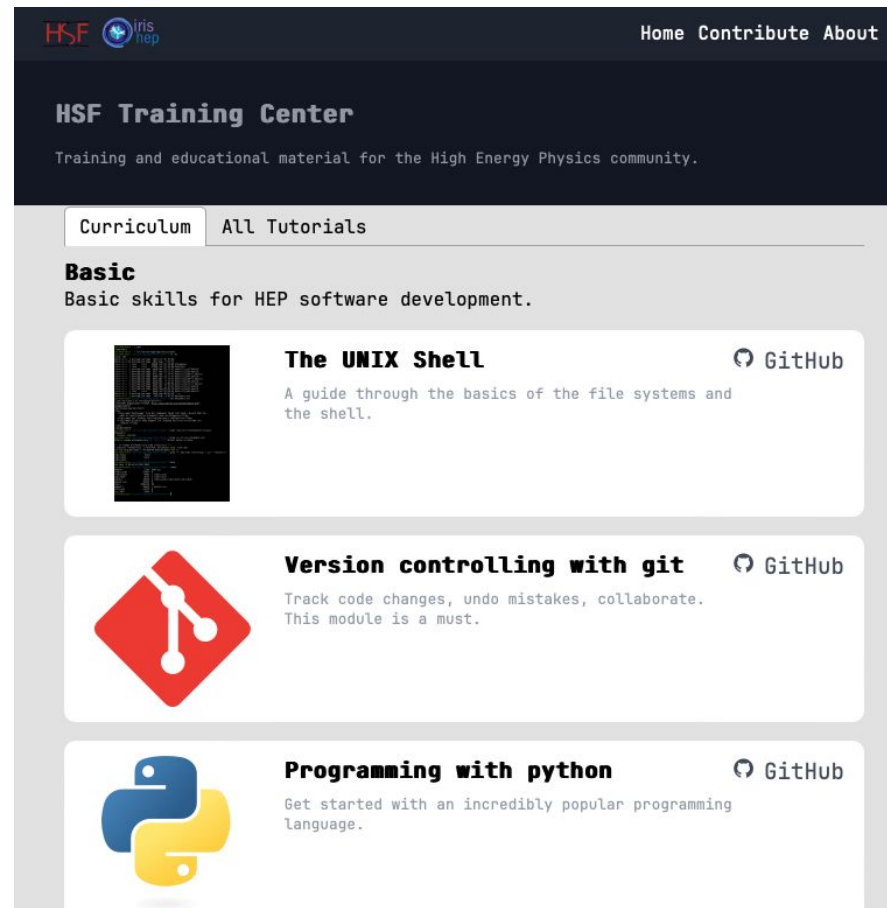
- We need a **unified**, **scalable**, and **sustainable** software training framework

- 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

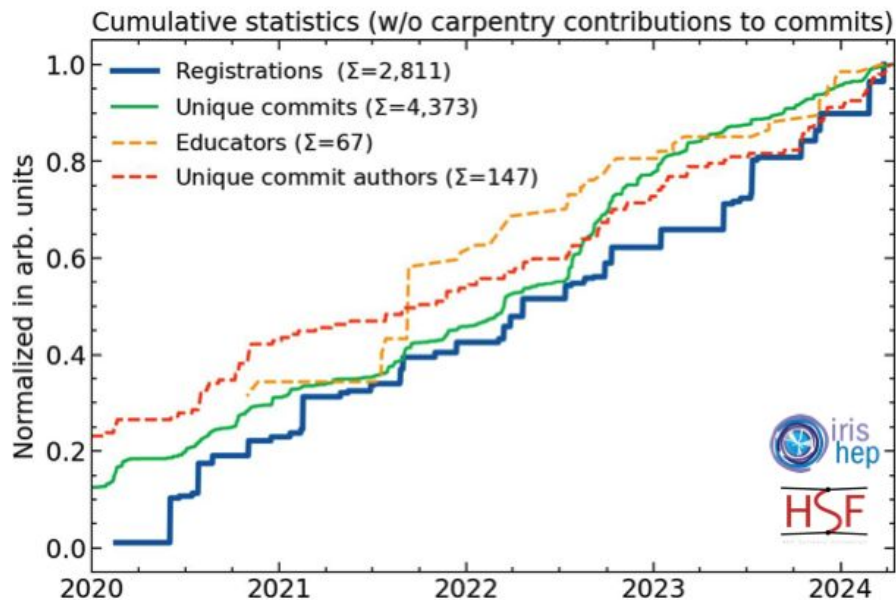
- New [HSF Training Center](#) currently lists 25 training modules (including material developed by IRIS-HEP/HSF, The Carpentries, and individual authors)
  - Aim to become focal point for all HEP Training activities
  - Central list of training events (everyone can add)
- Some highlight courses
  -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



The screenshot shows the HSF Training Center website. At the top, there are logos for HSF and IRIS-HEP, and navigation links for Home, Contribute, and About. The main heading is "HSF Training Center" with the subtitle "Training and educational material for the High Energy Physics community." Below this, there are two tabs: "Curriculum" (selected) and "All Tutorials". The "Basic" section is highlighted, with the subtitle "Basic skills for HEP software development." Three training modules are listed:

- The UNIX Shell**: A guide through the basics of the file systems and the shell. (GitHub icon)
- Version controlling with git**: Track code changes, undo mistakes, collaborate. This module is a must. (GitHub icon)
- Programming with python**: Get started with an incredibly popular programming language. (GitHub icon)

# Outcomes



## 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

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## Links to recent presentations

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