



DUNE Computing Tutorial May 2021

Debrief

Claire David

David DeMuth

June 7th, 2021



Thanks again to everyone!



We can call this a success.

General feedback

How was it?

26 responses



We can call this a success.

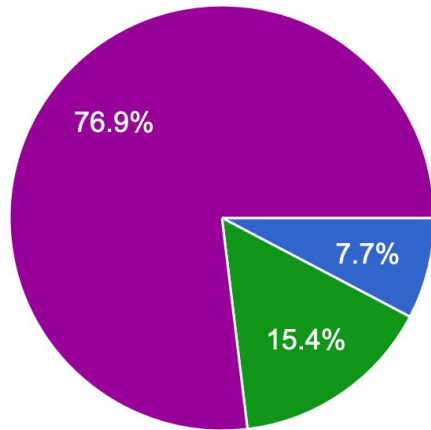
Positive feedback: what people like

- the content: helpful
- the atmosphere: motivating and pleasant
- the [training website](#) i.e. github page using Software Carpentry format
- interactivity: seeing experts explaining on their own terminal
- quizzes “More quizzes in the future!”
- the livedocs + timely responses to anonymous questions

Live docs and quizzes

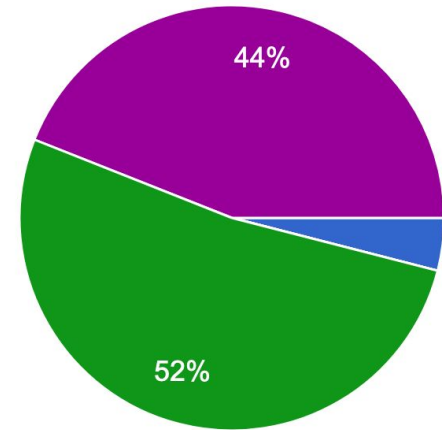
How was the support on the live doc?

26 responses



How were the quizzes

25 responses



- N/A
- Too difficult
- Confusing
- Good to learn
- Awesome

Where we could improve

- sending the setup instructions earlier (my bad!)
- insisting (even more) that the setup needs to be done before the event
- more head up time for asynchronous tutorial
- slower pace on the lectures

Good suggestions

- spreading the tutorial: Monday - Wednesday - Friday
- break instead of breakout rooms
- more examples / practice problems
- less overlap and better integration of the sections

See the full survey on Indico

What Next?

- A three day training developed from past workshops with a markdown-based HSF/Software Carpentries.
 - Zoom sessions captured, post-produced, hosted for asynchronous viewing on YouTube
- Could we modularize into smaller standalone trainings similar to HSF?
 - What HSF curriculum can we leverage?
- Could our trainings be adopted into the HSF curriculum.
- What DUNE computing trainings could be developed next (low-hanging fruit)?

Sessions	Wednesday, May 12	Thursday, May 13	Friday, May 14
8:00 - 8:15	Welcome + announcements C. David & D. DeMuth	Grid job submission + common errors Lecture + hands-on + exercises <i>Follow-up: see "Expert in the room" Friday late morning</i> K. Herner	"Expert in the room" LArSoft: How to modify a module T. Junk
8:15 - 9:00	Storage spaces Lecture + hands-on M. Kirby		Code-makeover Switch to POMS K. Herner
9:00 - 10:00	Data management Lecture + hands-on S. Timm		
10:00 - 10:30	Coffee break!	Coffee break!	Coffee break!
10:30 - 11:00	QUIZ! Storage spaces data management	QUIZ! Grid job submission	QUIZ! Best programming practices
11:00 - 12:15	Intro to art/LArSoft ← lecture Exploring fcl files ← hands-on <i>Follow-up: see Friday morning</i> T. Junk	Code-makeover How to improve your code for better efficiency T. Junk	"Expert in the room" Grid & batch job submission K. Herner
12:15 - 12:30			Closing remarks C. David & D. DeMuth

Towards a HEP Software Training curriculum

Idea

Training in software and computing are essential ingredients for the success of any HEP experiment. As most experiments have similar basic prerequisites (Unix shell, Python, C++, ...) we want to join our efforts and create one introductory software training curriculum that serves HEP newcomers the software skills needed as they enter the field, and in parallel, instill best practices for writing software.

The curriculum is comprised of a set of standardized modules, so that students can focus on what is most relevant to them.

The modules

Basics

Version controlling with git
Track code changes, undo mistakes, collaborate. This module is a must.
Start learning now!
Contribute!

Programming with python
Get started with an incredibly popular programming language.
Start learning now!
Contribute!

Machine learning
Start learning now!
Watch the videos!
Contribute!

SSH
Introduction to the Secure Shell (SSH)
Status: Early development
Start learning now!
Contribute!