From 0 to 1 Million and Beyond: The Linux Foundation eLearning Journey

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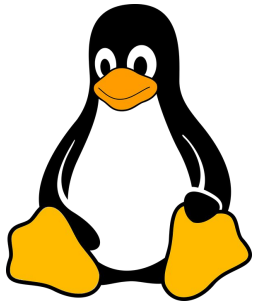
THE LINUX FOUNDATION

Agenda

- The Linux Foundation
- Our eLearning Journey
- Collaborative Learning
- What's Next?



The Linux Foundation

The Linux Foundation is dedicated to building sustainable ecosystems around open source projects to accelerate technology development and industry adoption.

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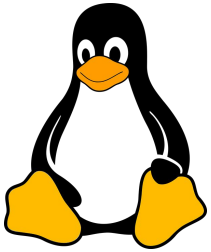
Linux and Beyond



Linux

Cloud

Networking

Security

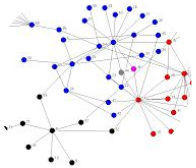
Blockchain

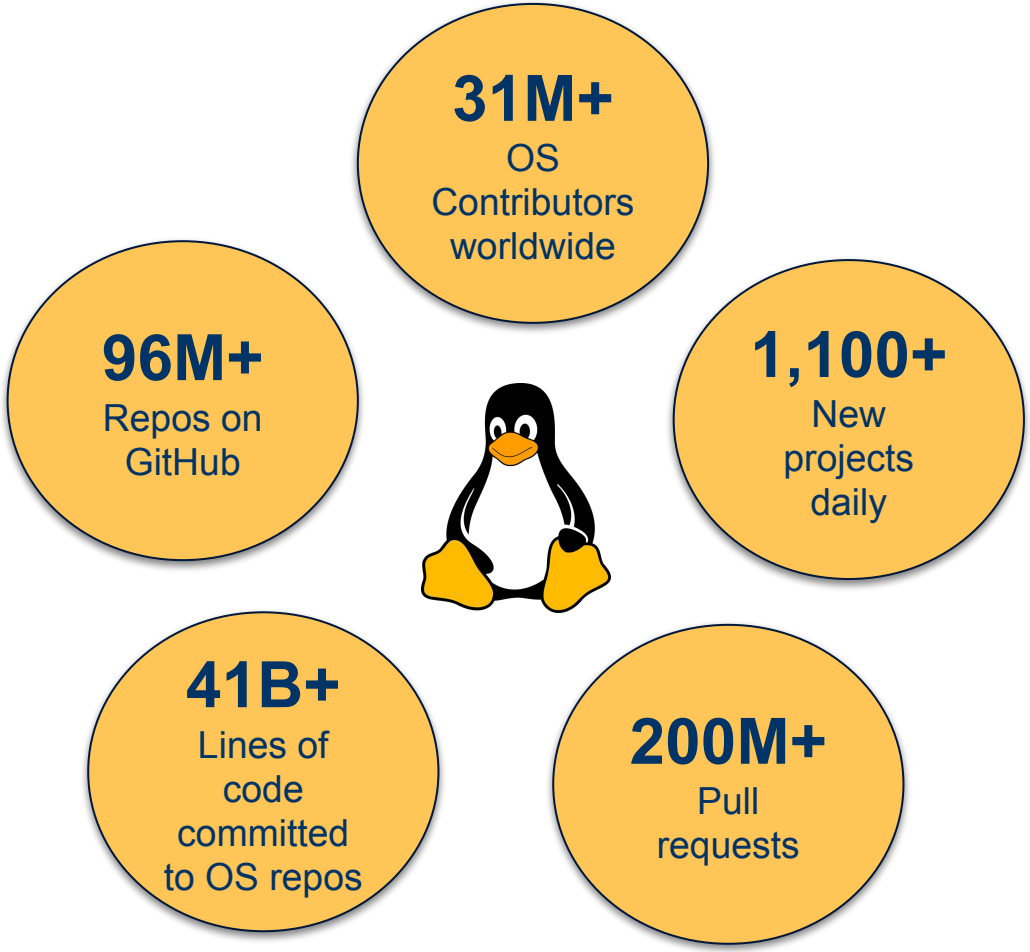
Automotive

Embedded

Web

etc.





Open Source is the Way to Develop New Technologies

Open Source Software

Myth: You ***should not*** be trained on it because it's free

Reality: To be really good and successful, you ***should*** TRAIN for it

2018 **Open Source** Jobs Report

- Hiring open source talent is a priority for 83% of hiring managers (from 76% in 2017)
- 87% of hiring managers are having a hard time recruiting enough open source talent

Training the Next Generation of Open Source Developers

Provide affordable, vendor-neutral educational opportunities that build foundational knowledge, skills & competence in open source software:

- Instructor-led classes
- Self-paced, online courses
- Professional certification exams

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STRATEGY focused on 3 components

- ❑ Free introductory MOOCs
- ❑ More advanced, hands-on training (eLearning and instructor-led)
- ❑ Professional certification exams

eLearning Courses

- ❑ At least 50% of time spent on hands-on labs
- ❑ Lectures are a combination of text, graphics, and videos
- ❑ Mostly demo videos, to enhance the learning experience (usually less than 30% of total training time)
- ❑ Quizzes
- ❑ Etc.

The Linux Foundation eLearning Journey: The First Steps

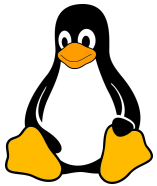
Introduction to Linux (LFS101x)

- Launched August 1st, 2014
- Multiple reruns
- Over 800k enrollments
- Teaches immediately applicable entry-level Linux skills

Collaborative Learning Trends in LFS101x

DISCUSSIONS

- Informal
- Unstructured
- Moderator - more peripheral role



Connect learners and allow them to take an active role

Learners provide support to peer learners

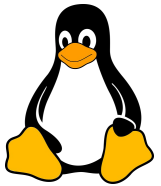
Local and virtual study groups, engaging peer learners

Threads in different languages (Russian, Spanish, etc.)

Blockchain for Business:

An Introduction to Hyperledger Technologies (LFS171x)

- Targets a blend of business-oriented and technical learners
- Collaboration patterns in the forum similar to those in the *Intro to Linux* MOOC
  - Learner support
  - Study groups
  - Collaboration on startup blockchain projects



Open Sourcing the Course Creation Process

The *Hyperledger Learning Materials Development Working Group*:

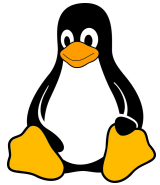
- Current and former students of the LFS171x MOOC, as well as Hyperledger community members
- Maintain and update course content
- Provide forum support
- Develop training materials to support all Hyperledger projects

Promoting collaboration, inclusion and diversity in the community and beyond

Empowering learners to take an active role and integrating them into the larger open source communities

Creating powerful online communities...
...increases outreach and promotes a relationship of mutual trust and partnership

Major eLearning Milestones



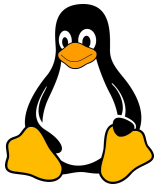
2014 *Introduction to Linux* MOOC launched on edX (290k enrollments in v1)

2015 Started developing eLearning courses on our own LMS

2018 First professional certificate on edX
1 million enrollments on edX

Today 14 MOOCs, 1 professional certificate, 22 paid eLearning courses, etc.

2019 1 new professional certificate, new MOOCs and eLearning courses



Challenges

Resources (SMEs, Costs, Time)

Keep up with dynamic technologies

Stay relevant & competitive

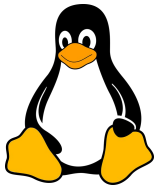
SOLUTIONS:

- Take advantage of our unique position, at the forefront of technological innovation
- Work closely with the open source community
- Small team and low budget
- Always on the lookout for opportunities, tools, and approaches

Building communities around open source projects and making an impact on technology around the world

eLearning: Seeing the Bigger Picture

- Create an open source talent pool
- Help learners keep up with technological advancements
- Contribute back to the community:
  - LiFT scholarships
  - Women Who Code
  - Onward2Opportunity
  - Goodwill



THANK YOU!