



Why do you like to study?

1) Studying Gives You Purpose

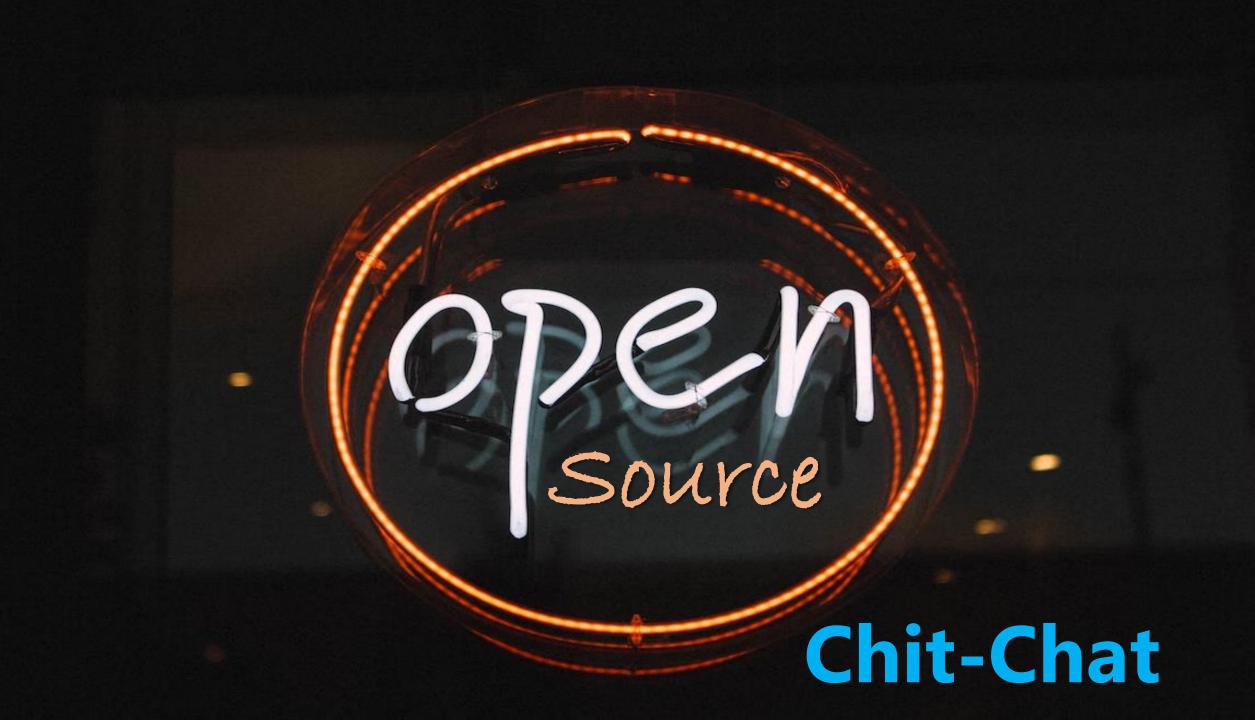
Finding your purpose will give you hope and the motivation to endure the anxiety and stress. It will also help motivate you to study for those boring subjects or work through those projects you don't enjoy. 05-Feb-2020

https://brightsparkz.co.za > 5-reasons-to-love-studying *

5 Reasons to Love Studying - BrightSparkz Tutors









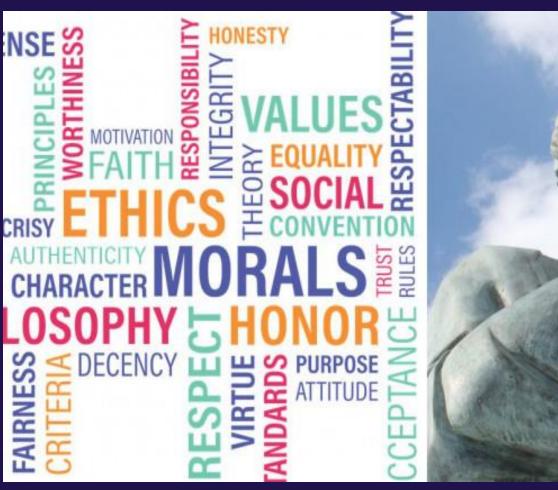
MOVIE TIME!

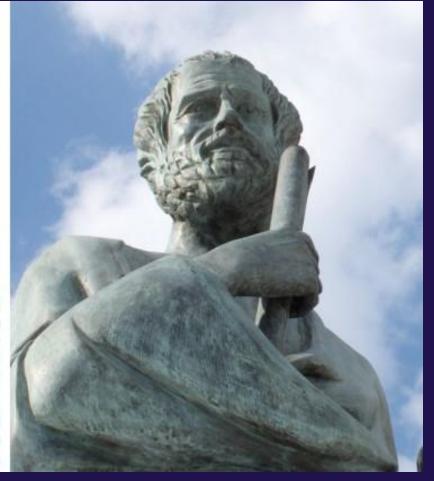




Open Source Community ~~ Society

- Integrity
- Openness
- Sharing
- Collaboration
- Communication







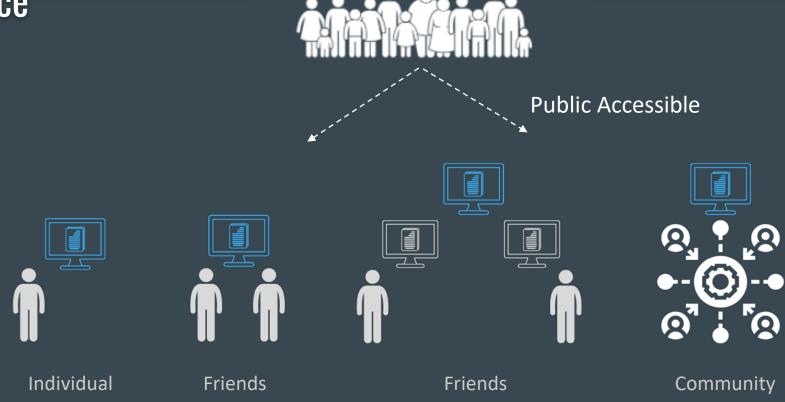
How do we do software development?

Closed Source

Individual Friends Friends Group of People



Open Source



Source Code is Open



Open Source --

----- Source Open

Need **NOT** be Free!

Free Software

----- Software Freedom -----

Run, Edit, Contribute & Share

Need **NOT** be Free!

Freeware

------Free of Cost

Free to use (conditions apply!)

Mostly NOT Open Source!



Open Source : Essentials



Common Place for Source Code

Examples: git, github, gitee, gitlab, bitbucket, ...



Developers

Using different programming languages (go, c, c++, java, scripts...)



Open Source : Typical Components

Governance



- Operation Structure
- Strategy & Budget
- Roadmap

Engineering



- Design and Development
- Project Management
- Source Version Control

Ecosystem



- Developers
- Vendors
- Users

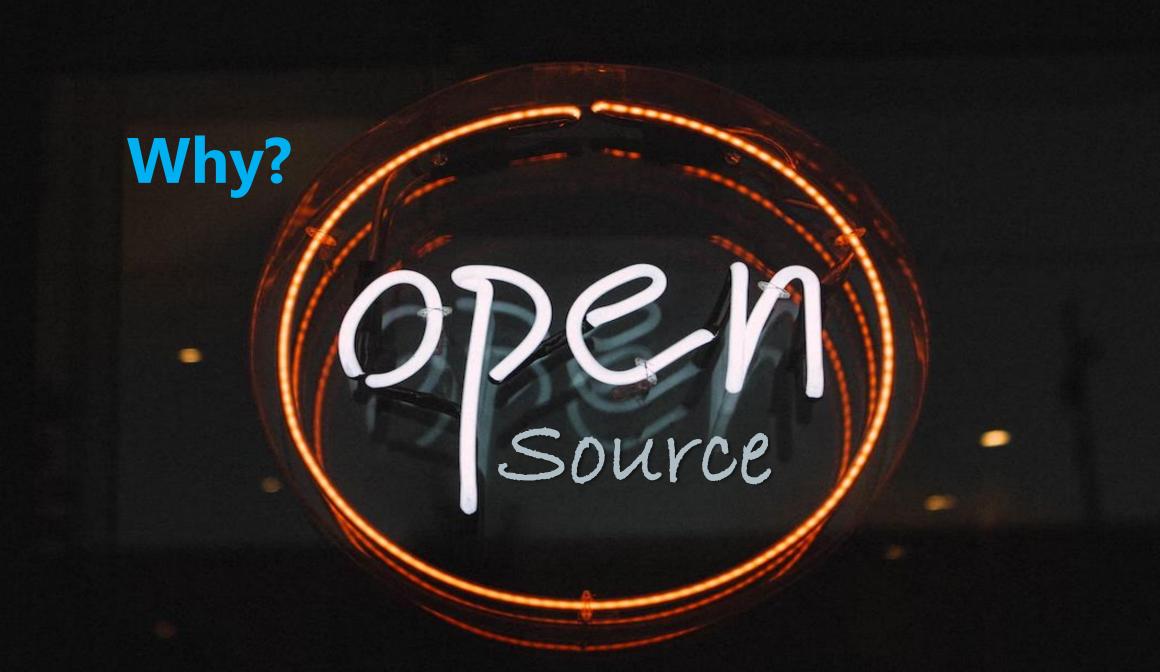
..for a project to run smoothly and to be sustainable!



Project, Foundation and Sub Foundation









As of June 2022, GitHub reported having over 83 million developers and more than 200 million repositories, including at least 28 million public repositories. It is the largest source code in the world.

Exponential Adoption of Open Source...

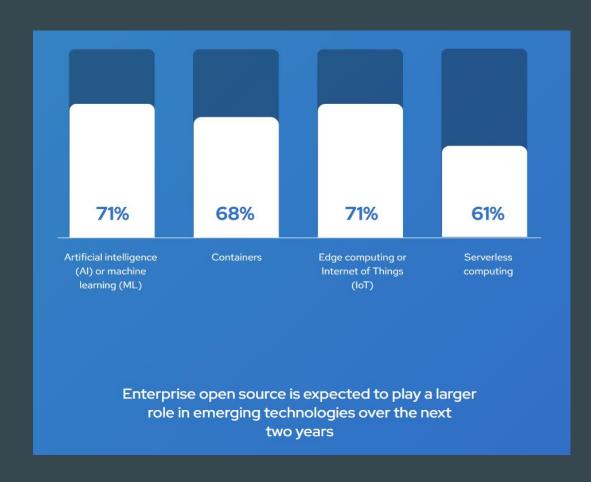
770 of organizations more reliant on OSS than they were 12 months ago

36% reporting they had increased their use of open source "significantly".

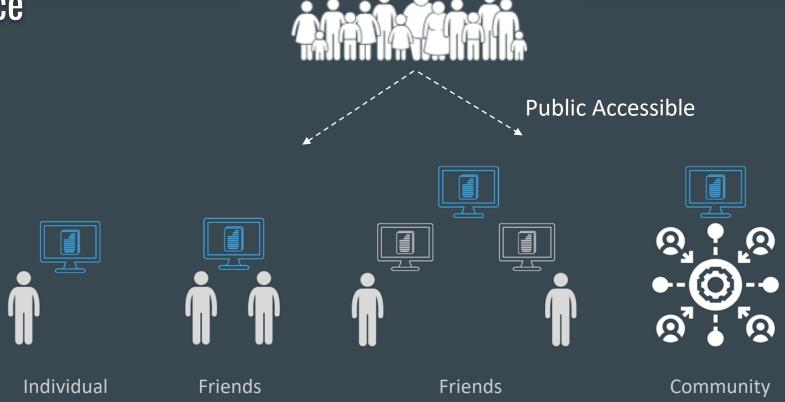
...across all technology and business domains

IT leaders TRUST the security of open source

89% see enterprise open source as more secure or as secure as proprietary software



Open Source



Experience Power of Collaboration and Open Culture!



Collaborative & Open Culture



Collaborative Goals Setting Collaborative Development Collaborative Research Collaborative Learning

Practices to ensure effective collaboration!



Open Communication

- What over Who (Community Calls, Slack, github discussions ...)

Value Development

- Why is it needed? Can't reuse? No to 'fancy pieces'! (github issue/PR handling)

Efficient Tools

- What works for us/this? Add what we use! Can we reduce 'work' (mindmap, github, gitops)

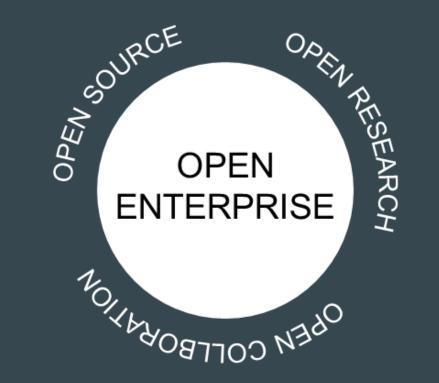
Right Process

- fit for changing community? Transparent? Inclusive? Needed? (github projects, teams, PR review...)

Self Learning

- Projects and People Self learn (project landscapes, meetups, events, outward view, technology..)

Open X!



Open Source

accelerate innovation and development with open source projects and ecosystems

Open Research

expand insights and explore ideas with open research and case studies

Open Collaboration

engage the community and build partnerships on a neutral platform



Why should !?

Coding Skills

Visibility Unlimited!

"Real" Projects

Global Networking

Technology

Employability

Communication

Recognition

Confidence

Leadership

Maturity

Research & Innovation





Transparent

Democratic

Value for All

Sustainable



Open Source Ecosystem

Governance



Operation Structure Strategy & Budget Roadmap

Hosts and Manages the open source projects



python SOFTWARE

Foundations

Host Multiple Projects and Sub Foundations | Build Governance & Operations







Sub Foundations

Host Multiple Projects | Build Governance & Operations



Independent Project Teams

Host and Manages individual projects

Engineering



Design and Development Project Management Source Version Control

Technology and Open Source Software Development

Developers

Design and Development of Open source software

Contributors

Contribute to non technical areas of the project

Experts

Architecture and Technology Strategy
Development

Ecosystem



Collaborating Community
Brand, Awareness, Deployments
Requirements and Feedbacks

Collaboration, Productization and Deployment

Users

Use the products and solutions | Gives requirements and feedbacks | Support projects / foundations

Vendors

Build products and solutions | support the projects / foundations

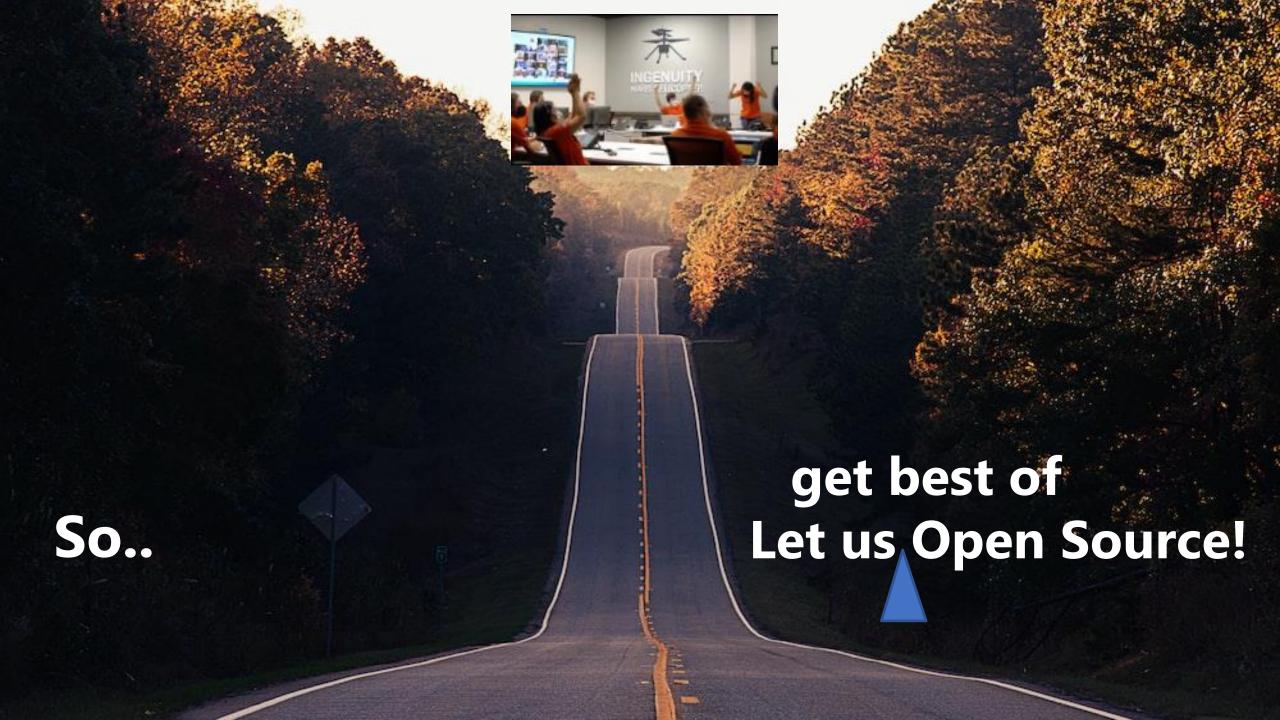
Supporters

Partnering companies and individuals supporting the project community ecosystem |

How can !?

- Can Code?
- Can Test?
- **Can Document?**
- **Can Software Design?**
- Can do creative designs?
- Can evangelize?
- Can X..!





Open source Demystified Level 1: The syllabus

<<<<<

Minimum V

COURSECODE: OPENSOURCE DEMYSTIFIED – Level 1

Credits: 3 Hours: 45

Course Objective:

• To provide clear understanding of open source, it's potential on individual career and personal growth along with real project experience initiation. This creates a foundation for the students to explore the huge opportunities through open-source projects globally.

Course Outcomes:

After successful completion of the course, the student will be able to:

- Understand the open source ecosystem and projects
- Analyse and understand open source project technologies
- Join and work with open source communities
- Contribute to open source projects in different technologies technically and non technically
- Build more expertise (technical and non technical)
- Explore more opportunities to grow visibility and credibility in the industry through open source



Open Source Demystified: Introduction

Basic concept of Open Source; Understanding Key terms: Open Source, Free software; Myths and Facts: Burst all common myths, Open Source Industry Insight: Open Source Projects, Foundations, Landscape, directions and trends, Case Study of a Foundation, Sub Foundation and a project.



Open Source Operation & Potential Insight

Typical Components: Governance, Engineering, Ecosystem; Case Study & Deeper understanding: Create a layout of given open source project, Illustrate the Operation. **Open Source Potential** Insight: Why Open Source, Technology Innovation and Research. Open source technology map, Power for enabling and empowerment: Various Global Channels. Illustrative discussions and case studies



How to join and contribute

Getting to know about the project, Entry Channels, How to contribute, Case Study, Working with one open source project: Join the community channels, Attend community meeting and experience sharing, Tools and Setup, Contribution and understand various aspects of contribution: quality, testing, documentation, Dos and don'ts, community practices: Best Practices Sharing, Lifecycle of open source contribution. Sustaining and grow as a contributor: Key attributes & Pitfalls

Building Career and Competency

Building Career and Competency:
Career, Skills,
Personal, Industry
Credibility, Global
Influence and
Impact, Case
Studies and Real
examples:
Contributor Growth
and global influence;
Self-assessment
and individual skill
plan.



Open Source as a Culture

Philosophical view of Open Source, Cultural aspects: Integrity, Openness, Sharing, Collaboration, Communication; Imbibing value, Case Study and Sample project creation along with role play for deeper understanding.





The Lab

Credits: 2 Hours: 60

Course Objective:

 To provide a quality and systematic approach to contribute and learn the design, development, operation and maintenance of open source software systems.

Course Outcomes:

After successful completion of the course, the student will be able to:

- Understand the community operations and governance of open source projects
- Do hands-on contribution to open source project (In design, development, testing and documentation)
- Understand how to learn and grow their industry visibility in open source industry

Guidelines:

- Minimum 2 Months of Engagement with any open source project/ community (Example: SODA Foundation Projects or any such open source projects)
- Typical Languages: Go Lang, Python, Java Script, Ansible/Other scripting, Or any other
- Typical Technologies: Data/Storage, AI/ML, Cloud, Cloud Native, Edge or any other
- Weekly 4 Hours (Average) / Depends on the student
- Project Scope:
 - Join and contribute to any of the projects under SODA Foundation
 - Minimum 2 accepted PRs/Issues or combinations. The PRs should have at least one commit from the contributor:
 - Documentation
 - Testing
 - Feature Development
 - Minimum 5 community meeting or any technical meeting attended and sharing
- Deliverables:
 - Project Report comprised of (not limited to):
 - Project Layout: Operation, Technology, Features and Use cases
 - Project Architecture
 - How to contribute to this project
 - Contribution Summary
 - Challenges and Learning
 - Seminar / Debate Sessions







www.sodafoundation.io

Building open data framework for all through open source ecosystem and technology projects for data management!

Where do I start?

Just Join



https://sodafoundation.io/slack

..and say I want to contribute!

We welcome developers of all levels of skills and experience to join to build future technology solutions for data & storage!









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