Open Source Introduction

Presentation by Yash Bhamare



What is Open Source?

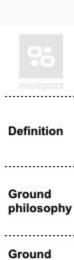
Initiative to promote collaboration and sharing of softwares.

Source code of a software can be inspected, modified, and enhanced by anyone.

But it is much more than that!

It guarantees:

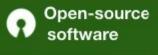
- Integrity of the author's source code
- No discrimination against persons or groups or fields or endeavours
- Same license rights to all users
- License are technology-neutral and not specific to product





Social movement

Not necessary





Freeware



"FREE"	"OPEN"		
is a matter of liberty, not	doesn't just mean access to		
price	the source code		

"FREE" refers to price, while freedom of the use is restricted by creator

"PUBLIC DOMAIN" belongs to the public as a whole

Four Freedoms

Development methodology

Marketing goals

Copyright disclamation

https://www.gnu.org/ rules philosophy/free-sw.html

Not necessary

Open Software initiative

https://opensource.org/osd

YES

Organization https://creativecommons.org

YES

Creative Common

Covered by copyright law

Free of

charge























Open Source License

How will the Open Source Softwares be shared?

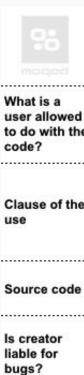
-> Licenses

Why to have an idea about them?

-> To prevent yourself from legal issues!

Focus of Open source licenses?

-> Redistribution of Code, Commercial use, and modifications to which section of source code



Re-licensing

Commercial

restrictions

Must be open

Derivative work cannot be

released as proprietary

software

Permitted



Don't have to be open

Derivative work can be

se or as proprietary software

Permitted



No specific terms about the

distribution of source code

Derivative work can be

e or as proprietary software

Permitted

released under another licen : released under another licens

moqua	C Copyright	(5) Copyleft	Permissive	Commons	
What is a user allowed to do with the code?	What creator dictates	What user wants under certain rules	What user wants with a few restrictions	What user wants without restrictions	
Clause of the use	As creator dictates	Derivative work must be attributed to creator, open- source and copyleft	Derivative work must be attributed to a creator	Derivative work must be attributed to a creator	

As creator dictates

As creator dictates

As creator dictates















maqad	APACHE	BSD	l'lii	Free as in Freedom	Free as in Freedom	Free as in Freedom
Туре	Permissive	Permissive	Permissive	Copyleft	Copyleft	Copyleft
Provides copyright protection	√ TRUE	√ TRUE	√ TRUE	√ TRUE	√ TRUE	√ TRUE
Can be used in commercial applications	√ TRUE	√ TRUE	√ TRUE	√ TRUE	√ TRUE	√ TRUE
Provides an explicit patent license	✓ TRUE	X FALSE	X FALSE	X FALSE	X FALSE	X FALSE
Can be used in proprietary (closed source) projects	✓ _{TRUE}	✓ TRUE	✓ TRUE	X FALSE	FALSE partially	X FALSE for web
Popular open- source and free projects	Kubernetes Swift Firebase	Django React Flutter	Angular.js JQuery, .NET Core Laravel	Joomla Notepad++ MySQL	Qt SharpDevelop	SugarCRM Launchpad

How to contribute

General Steps:

- Why contribute
- Decide the domain
- Programming language
- Explore projects
- Finalise the project
- Environment setup
- Explore the code

- To develop skills
- Web Development
- Python
- In backend web development
- Mozilla environment
- Setup Github; Install git, packages, etc.
- Compile, execute, test, debug

Useful Links:

- https://codetribute.mozilla.org/languages/python
- https://github.com/freeCodeCamp/how-to-contribute-to-open-source
- https://github.com/MunGell/awesome-for-beginners
- https://www.hackerearth.com/getstarted-opensource/
- https://medium.com/@kevinjin/contributing-to-open-source-walkthrough-p art-0-b3dc43e6b720

Questions?

Small Demo