

College of Computer
ACM-W Chapter Team

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Second Issue



Open Source Software



Index :

Index	1
What's a Free Software	2
What is open source	3
The open source and closed source software	4
Disadvantage of Open Source+People Preferring to Use Open Source Software	5
Members profile	6
Moday AlRabiah	7
Azhar AlMutiri	8
References	9

What is a Free Software ?!

Free software is the software that respects its users' freedom. When you say free software, think about free speech, free in this context has the meaning of freedom and nothing related to the price. Software freedom movement started in 1983 when a man called Richard Matthew Stallman found out that companies started to restrict the users from accessing the software source code, he was a programmer and he knew that this might lead to a huge problem in the future and this will threaten the users' privacy as well. He created a project called GNU and it is now the leader of all free software products. At the beginning it was just an operating system that gives the users their freedom with all the necessary needs, then, this project had other beneficial branches one of them is the GPL (GNU General Public License) which is now in big projects such as Wordpress and Linux. Free software will have four essential freedoms starting from zero to three , freedom (0) ,the freedom to run it for any purpose, freedom (1) to study and change the source code, freedom (2) distribute copies of the original work, freedom (3) distribute copies of the modified work. With these freedoms, users' freedom will never be threaten by anyone and programmers will learn from each other. Finally, Software freedom is a must because it will provide the society good technology which will develop programmers by learning from others' work and at the same time they will develop this technology .



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What Is Open Source ?!

Open source is a computer program in which the source code is available to the public. Moreover, any user with appropriate programming skills can read and/or modify the code. Open source expression instead of free software expression, because previous expression make some confusion to people as they expect that it is free and without any profit. Open source has a significant impact on the development of software in many fields such as multimedia, operating systems and anti-virus software where it becomes with high quality for people. Additionally, some operating systems support open source model for the programmers such as Linux and FreeBSD operating systems .

```
252 document.getElementById( cell )
253
254
255 function updatePhotoDescription() {
256     if (descriptions.length > (page * 9) + (currentpage.substring(0, 1)
257         document.getElementById( 'imgCaption' ) .innerHTML = descriptions[
258     }
259 }
260
261 function updateAllImages() {
262     var i = 1;
263     while (i < 10) {
264         var elementId = 'total' + i;
265         var elementIdBig = 'bigImage' + i;
266         if (page * 9 + i - 1 < photos.length) {
267             document.getElementById( elementId ) .src = 'images/' + photos[page * 9
268             document.getElementById( elementIdBig ) .src = 'images/' + photos
```

Open Source Software :



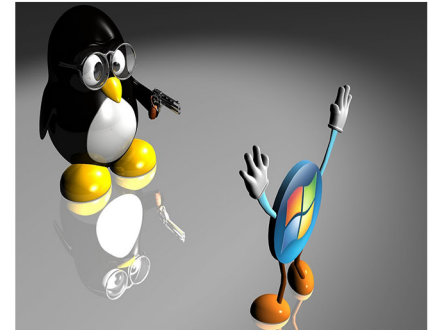
Open source software is a software that can be modified and has many changes on its codes by other people around the world. Moreover, programmers can make changes to the program code or application by either adding new features or removing some of them besides correcting any errors that exist in the code .

Software Freedom Day (SFD):

Software Freedom Day is an annual global celebration day for free software. It is intended to raise awareness of free software and its advantages and encourage their use. Therefore, this global event shows the open source software for all people around the world and many of institutions or universities participate in this huge event. By accessing the website of that event, you will find mapping for all SFD events around any area you are looking for .

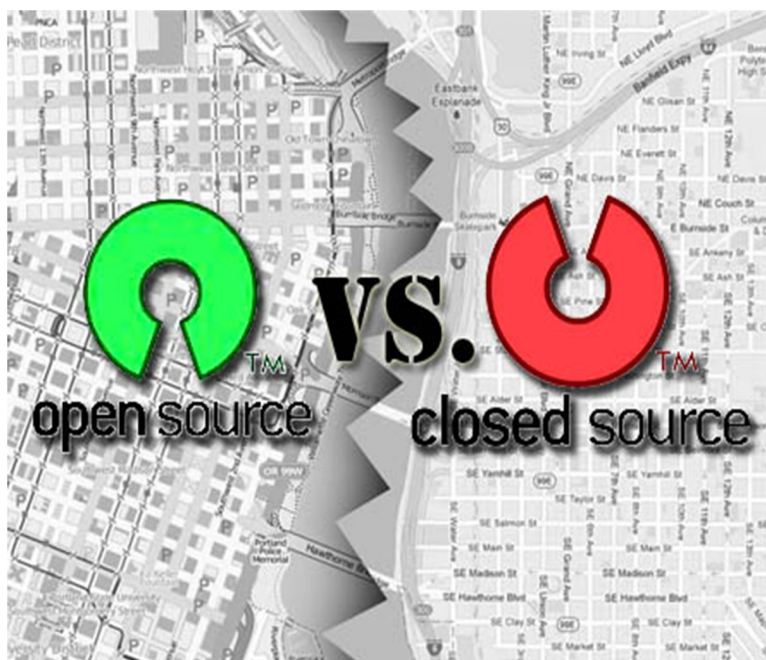


The open source and closed source software !!



The proprietary software is a software with a source code that cannot be modified by anyone besides the author or organization who created the software and maintains exclusive control over it. Also known as closed source because its source code is covered by proprietary rights of its original owners. Furthermore, owners of a software are the only ones legally allowed to copy or modify it such as Microsoft Office and Adobe Photoshop. In order to use proprietary software, computer users must agree (usually by signing a license displayed the first time they run this software) that they will not do anything with the software that the software's authors have not expressly permitted.

Open source software authors make their source code available to others who would like to view that code, copy, alter, or share it such as LibreOffice and the GNU Image Manipulation Program. Similar to proprietary software, users must accept the terms of a license when they use open source software but the legal terms of open source licenses differ dramatically from those of proprietary licenses. Open source software licenses promote collaboration and sharing as they allow other people to make modifications to source code and incorporate those changes into their own projects.



Some open source licenses ensure that anyone who alters and then shares a program with others must also share that program's source code without charging a licensing fee for it. In other words, computer programmers can access, view and modify open source software whenever they like as long as they let others do the same when they share their work. In fact, they could be violating the terms of some open source licenses if they do not do this.

People Preferring to Use Open Source Software

Some people preferred Open Source Software for different of reasons:

- They have more control over that kind of software .
- They can examine the code to make sure it is not doing anything they do not want it to do .
- Ability to change parts they do not like on the original version of software .
- Open source software can help programming students to develop their skills because open source code is publicly accessible and students can learn making better software by studying what others have written .
- Some people prefer open source software because they consider it a more secure and stable than proprietary software .
- Viewing and modifying the open source software by many programmers could correct any errors or omissions that the programs original authors might have missed .
- Programmers can edit on open source software without asking for permission from original authors .
- Open source software is updated and upgraded quickly .

Disadvantage of Open Source:

- Public accessibility: Accessibility means that everyone can see the codes of applications so that easy for hackers to manipulate and alter the codes, that why the accessibility is a disadvantage of Open Source Software .
- No privacy or rights preserved .
- Open exchange raise the possibility of viruses' attacks .
- Changes made by programmers to the code might change some of the software .
basic properties
- Public manipulation of data could produce false results or affect the quality of the software .

Websites that help you :

- <https://www.openoffice.org>
This link will be useful for you to learn about OpenOffice and how to download it. Also, you can participate in OpenOffice with other people around the world.
- <http://www.apache.org>
If you are looking for a rewarding experience in Open Source, you are going to find it here in this link. This link also provides the latest news and latest activity about apache.
- <http://opensource.com>
This link will reveal for you an open source world of many aspects.

#Members Profiles :

In each issue we choose two members to talk about themselves, to describe their personalities ,tell us about their dreams, plans , and ambitions .





Modawy Alrabiah

7th Level of IT, College of Computer
CoC-QU ACM-W Student Chapter's Member
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'Modawy' maybe just a name for someone, and maybe is a life for another! First, my father gave me the name of Modawy, and at that moment, I didn't know that I will be in love with my name. If I need to talk about 'Modawy', that will taking more than hundred pages !

Computer Specialism, that which I was chose before seven years of registering at the university. When I reach to last year of secondary school, I've decided I want to be a computer engineer. However, that doesn't happen because of the college of computer doesn't have this field. Instead of that, I studied at Information technology, and at this year, I'll graduate. I registered at this chapter, because I love to participate everything related to computer, that's what good thing I have after three years of studying IT :-). I'm a simple girl that aims to make something good in her community, I wish to see more and more persons, especially the women, they love and act as a human-computer. Moreover, they thinking logically at all, and being more precise in their life. Maybe that's fiction for anyone reads this essay, but, seriously I dream and believe that will happens .

Strong personality, confidence, and precision the most important things that made my leadership as a key-feature in my character. The most word that people hear from me, is "hmmm...", and I think it relates to my long thinking! Therefore, I'm interesting in analysis-thinking, scientific researching, development, and design.

For our Students-ACM-Chapter newsletter, am acting as a checker in Editorial members. I hope to give things that are more interesting firstly for myself and for ACM finally.

"Don't ever look back always look at a bright future" This is the rule in my life, and it's the thing that gives me a positive energy
Some wishes, some actions, Great results Coming.



Azhar Almutiri

5th Level of IT, College of Computer
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Ambitious, optimistic, I love everything related to technology and enjoy social media, I entered in the computer field is not my desire, but level after level increased my passion for it, I joined for (acm-w student chapter) because I am a girl being likes to read and is looking for a new and especially in the field of technical .

My goal in life is to The finest in my country to the highest levels of sophistication and happiest around me

Finally, **"Mark your desire to succeed stronger and bigger than any obstacle or failure passed it".**

You stronger with Allah .



References :

- What is open source software? | Opensource.com.” [Online]. Available at: <http://opensource.com/resources/what-open-source> .
- Software Freedom Day - SFD Home.” [Online]. Available at: <http://softwarefreedomday.org> .

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