



LISBON
SCHOOL OF
ECONOMICS &
MANAGEMENT
UNIVERSIDADE DE LISBOA

Free and Open Source Software

& Much More!

Prof. Doutor **Carlos J. Costa**

Index

- The Code Source
- Intellectual Property
- Copyleft
- Free Software and FSF
- Open Source and OSI
- Open Source vs. Free Software
- Free and Open Source Software Research
- Creative commons
- Open data



The Code Source

```
if (top !== self)
function calcWidth() {
  var wW = 0;
  if (typeof window.innerWidth == 'number') {
    wW = window.innerWidth;
  } else if (document.documentElement.clientWidth) {
    wW = document.documentElement.clientWidth;
  } else if (document.body.clientWidth) {
    wW = document.body.clientWidth;
  }
  if (sH = document.documentElement.scrollHeight)
  var wH = window.innerHeight || document.documentElement.clientHeight || document.body.clientHeight;
  wW = (document.all && (sH > wH)) ? document.all.clientWidth : wW;
}
```



Intellectual Property

- Industrial property: Patents



Intellectual Property

- Industrial property: Trade Marks



Intellectual Property

- Copyright



Copyleft

- Copyleft is a general method of making software free and enforcing that all its modified and extended versions are also free.
- Copyleft says that anyone who distributes the software, with or without modifications, must give third parties the freedom to copy and modify the software again.



Free Software

- The **freedom to run** the program as you wish, for any purpose (freedom 0).
- The **freedom to study** how the program works, and change it so it does your computing as you wish (freedom 1). Access to the source code is a precondition for this.
- The **freedom to redistribute** copies so you can help others (freedom 2).
- The freedom to distribute copies of **your modified** versions to others (freedom 3). By doing this you can give the whole community a chance to benefit from your changes. Access to the source code is a precondition for this.



Free Software Foundation

- The Free Software Foundation (FSF) is a non-profit with a worldwide mission to promote computer user freedom.
- Richard Stallman
- Founded: 1985
- <https://www.fsf.org>

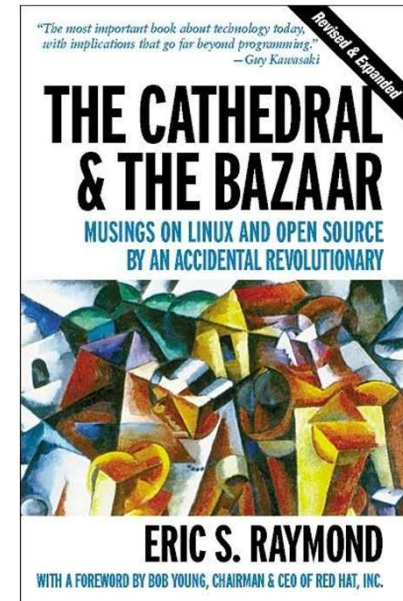


Free Software



Open Source

- More “realistic” approach
- open source software is better than proprietary software.
- Collaborative development:
 - Software engineering tools
 - Business model

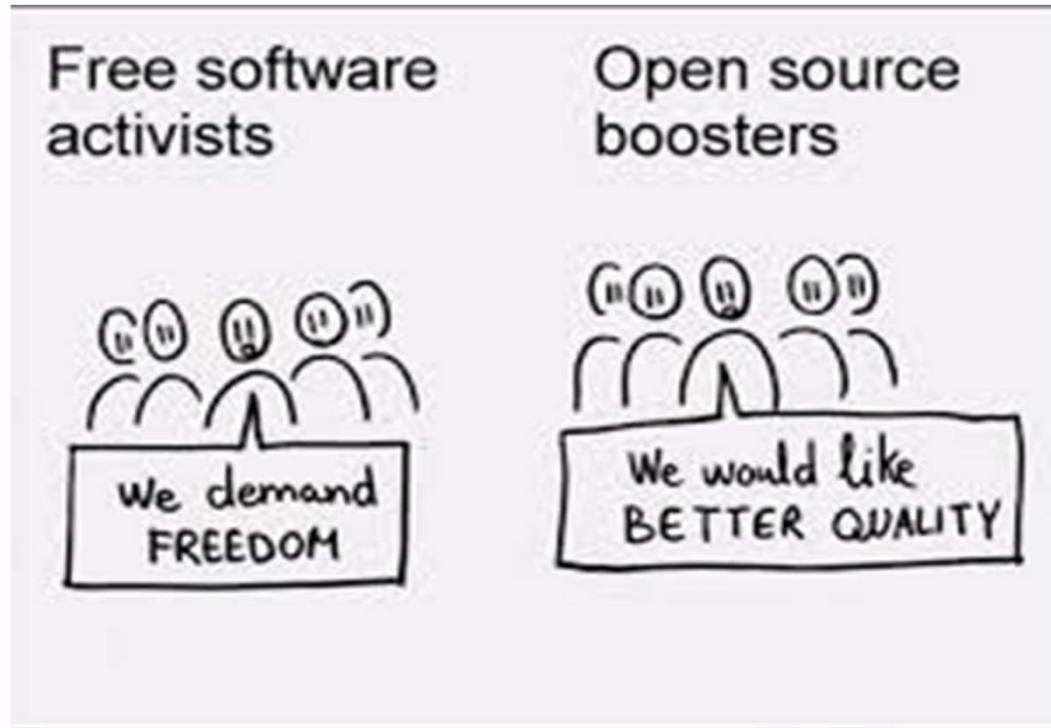


Open Source Initiative

- Non-profit
- Founded 1998
- <https://opensource.org/>
- OSI was jointly founded by Eric Raymond and Bruce Perens in late February 1998, with Raymond as its first president, Perens as vice-president, and an initial Board of Directors including Brian Behlendorf, Ian Murdock, Russ Nelson, and Chip Salzenberg.



Open Source vs. Free Software



- Stallman, 2016

Free and Open Source Software

- Law - Licences



Free and Open Source Software Law - Licences

	GPL	LGPL	MPL	Apache	BSD-3	MIT
Use	X	X	X	X	X	X
Modification	X	X	X	X	X	X
Distribution	X	X	X	X	X	X
Provide source code in distribution	X	X	X			
Show license on distribution	X	X	X	X	X	X
Identify changes in distribution	X	X	X	X		
Modifications in the same work with the same license (weak copyleft) in the distribution	X	X	X			
Derivatives must have the same license (strong copyleft) in the distribution	X	X				
Prohibited to disclose trademark of the original entity without prior authorization				X	X	

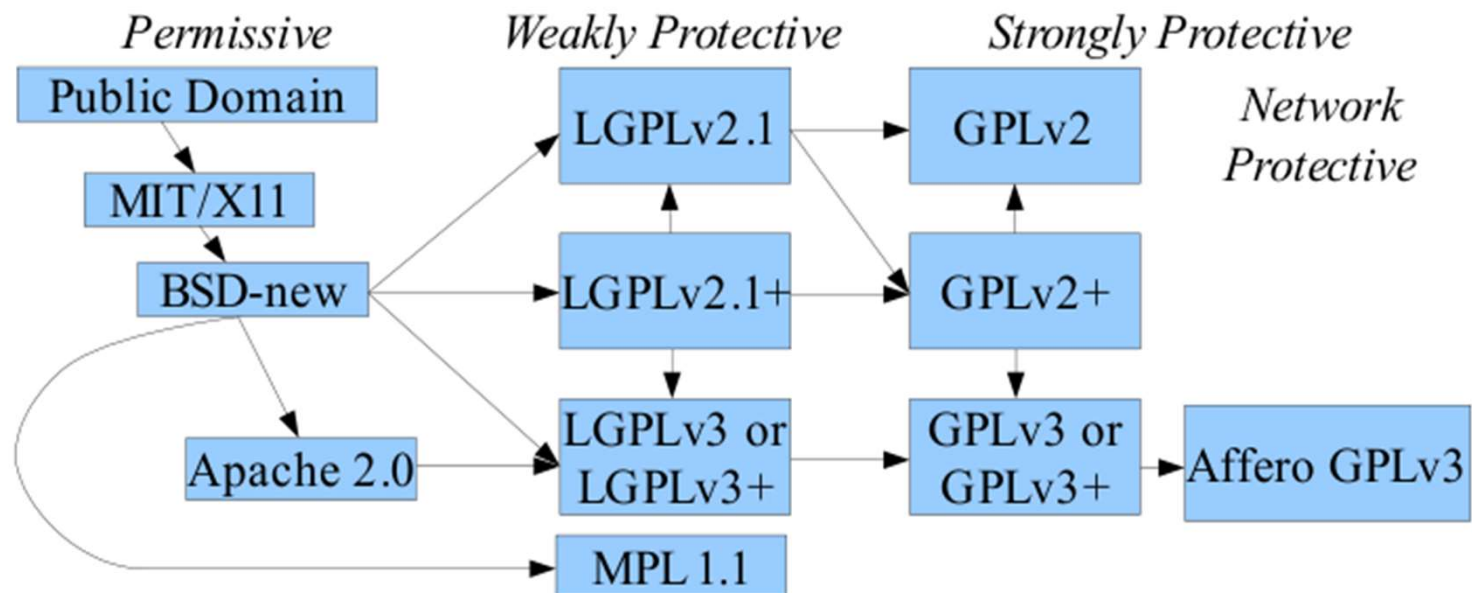
Free and Open Source Software

- Law – Licences
 - <http://choosealicense.com/>
 - <https://www.gnu.org/licenses/license-list.html>
 - <https://tldrlegal.com/>
 - <https://opensource.org/licenses/>



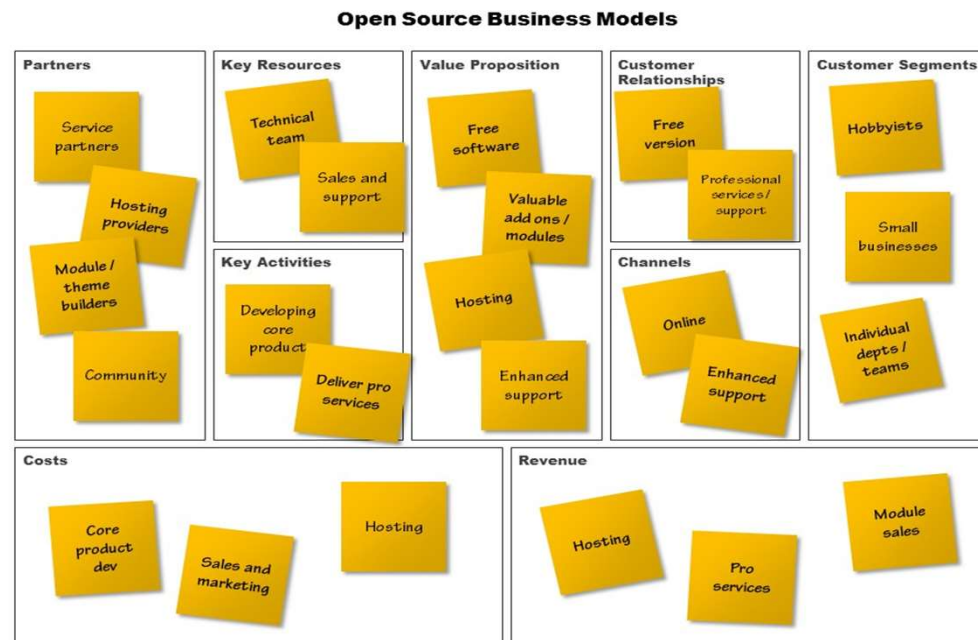
Free and Open Source Software

Law – Licences



Free and Open Source Software

- Management: New Business Models



Free and Open Source Software

- Software Engineering



Free and Open Source Software

- Informatics and End Using



Free and Open Source Software

- Economics and Social Approaches



Free and Open Source Software

- Motivations

Love



Money




Glory



Creative Commons

<https://creativecommons.org/license/>



The screenshot shows a web browser window with the URL <https://creativecommons.org/licer>. The page is titled "Características da Licença" and contains several sections:

- Características da Licença**: A section with the subtext "As suas escolhas neste painel irão atualizar os outros painéis nesta página." It contains two questions:
 - "Permitir que adaptações do seu trabalho sejam compartilhadas?" with radio buttons for "Sim", "Não", and "Sim, desde que os outros compartilhem igual" (which is selected).
 - "Permitir usos comerciais do seu trabalho?" with radio buttons for "Sim" and "Não" (which is selected).
- Licença Seleccionada**: A section showing the selected license: "Atribuição-NãoComercial-Compartilhaigual 4.0 Internacional". It features icons for CC, BY, NC, and SA. Below the icons, it states "Esta não é uma Licença de Cultura Livre." with a star icon.
- Ajude os outros a atribuírem-no!**: A section with the subtext "Esta parte é opcional, mas, ao preenchê-la, irá adicionar metadados legíveis por máquinas ao HTML sugerido!"
- Tem uma página web?**: A section with a question mark icon and a small Creative Commons license icon below it.

Open Access



Open Access

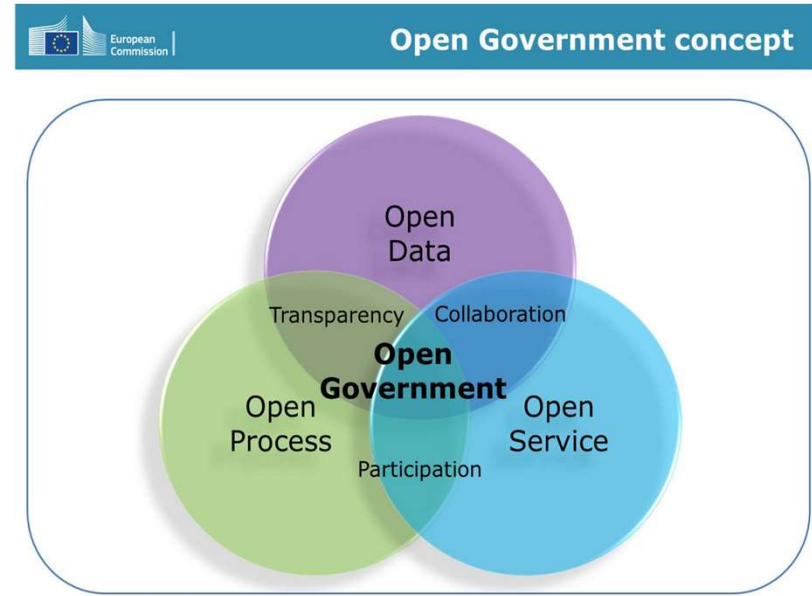


Open Data



- <https://www.pordata.pt/>
- <https://dados.gov.pt/pt/>
- <https://data.europa.eu/euodp/en/home>
- <https://data.europa.eu/euodp/en/data/group>
- <https://www.europeandataportal.eu/>
- <http://lisboaaberta.cm-lisboa.pt/index.php/pt/>

Open



Vision Paper: <http://ec.europa.eu/digital-agenda/en/news/vision-public-services>

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Webgraphy

- <http://www.oreilly.com/openbook/opensources/book/>
- <http://choosealicense.com/>
- <https://www.gnu.org/licenses/license-list.html>
- <https://tldrlegal.com/>
- <https://opensource.org/licenses/>
- <http://dcti.iscte.pt>

