



I WANT TO DISTRIBUTE MY SOFTWARE DEVELOPMENTS. HOW TO DEFINE AN OPEN LICENSING STRATEGY?

11th CÉCI Scientific Meeting, April 25th

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Knowledge Transfer Offices (KTO)



Promote research activities

Stimulate links between research and industry / enhance partnerships with external partners

Support the innovation process / transfer research results to society

Agenda

- **Motivation**: Why define a software strategy?
- Intellectual property (IP) : Why discuss about Copyright?
- Licensing: Why a license? Which one?
- In practice: What impacts a licensing strategy?



Why define a software strategy?

What happens when you use an off-the-shelf code?

You use it to gain time but (perhaps) without asking if you can or checking ownership, confidentiality rights and so on...

Do you wish to appear as a contributor when your code is distributed? It is obvious! Right?

What does code become after a PhD thesis?

Researchers leave, with code on a server in the best case, and full point.

Why discuss about Copyright ?

Author right protects the "form" : the source code and the executable software

- As soon as the work is created
- No formalities
- At least 50 years (70 in BE) after death of the author
- A single condition: originality
- Protect the <u>expression of an idea</u>, not the idea itself
- For example
 - > Literary works: romans, poems, scientific papers...
 - > Visual works: pictures, drawings, photographs, logos...
 - > Audio works: musics, jingles...
 - > Audiovisual works: movies, animations, video games....
 - > Other works: sculptures, architectural works, design, **software**...



Copyright regulations

Moral & Economic rights

Moral rights belong to the author

They are perpetual, inalienable and imprescriptible The author can not sell/lose them through non-use

- **Disclosure**: decision for the first availability
- Paternity: respect for his name and quality
- **Integrity:** respect for his work

Economic rights also belong to the **author but...**

Exception for software: your University is the rights holder

The university may transfer the rights of use or exploit a software, usually non-exclusively, these rights include:

- **Reproduction:** including loading, displaying, running, transmission or storage,
- **Distribution:** authorize the placing on the market, for payment or free of charge,
- Modification: translation, adaptation, modification



Why a license? Which one?

- Distribution = make available the software out of your lab
 - making it available to a (research) partner (!!!)
 - selling it,
 - installing it on a computer,
 - offering it as download from a website...
- License = a contract that gives some rights \rightarrow loose a part of your freedom



License: transfer of the "economic" rights

- 100% ownership = all rights for the rights holder = full freedom
- <u>Take care</u>: co-ownership = co-management !
- A University may not transfer more rights than it has:
 - Insertion of source code belonging to a third party ?
 - Source code developed in collaboration with other parties ?

The university (researchers and KTO) have to think together about the license under which a software will be distributed, either proprietary or open-source

Software license



Open-source licenses Permissive vs. copyleft

ACADEMIC LICENSES:

GNU LICENSES:

GPL, LGPL, AGPL...

Close to the public domain, as they generally impose only the respect of

paternity

PERMISSIVE

 BSD, MIT...
 All derivative software is subject to the same license

 Unconditional sharing of knowledge
 INSTITUTIONAL LICENSES:

 Artistic, Apache...
 Mainly from OS projects

 Mainly from OS projects
 Introduced by companies interested in the cooperative development

Persistent granted freedoms, as the subsequent users automatically grant the same freedoms

COPYLEFT

Most used open-source licenses



From BlackDuck 10-2018

(Creative Commons)

- Not adapted to software
- Adapted to documentation





Issues of the compatibility clause

It may be impossible to choose a license (and thus to distribute or use a software) if the final software integrates <u>incompatible libraries</u>

- Concerns the software **distribution**
- Not all open-source licenses are mutually compatible
- A license is compatible if it replaces another in accordance with all its terms

Issues of the compatibility clause

Reciprocity: BSD is MIT-compatible and MIT is BSD-compatible



False idea of reciprocity: BSD is GPL-compatible but GPL is not BSD-compatible



Complete incompatibility: Mozilla v.1 is not GPL-compatible and GPL is not Mozilla-compatible



(In)Compatibility – a recapitulative view

Compatibilité entre licences (a)

Lecture du tableau : peut-on, à partir d'une licence A (licence d'origine), distribuer sous une autre licence B (licence de distribution) ?

			Licences B : utilisées pour la distribution																				
				Copyleft													Permissif						
			Proprié- taire		AfferoGP	GPLV	GPL	J2 PL	V3 LGPL	12.1 CeO	CeCII	L'C MP	N JÖ	A EU	24 CP1	- /&	24	850	nonmo	Apache	Latex	ernic Free	CECILB
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ences A : d'origine	Copyleft permissif	Affero GPL		0	O*																		
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		GPL V2		0\	0\	0																	
		LGPL V3		0*	O*		0																
		LGPL V2.1		0\	0\	0	0\	0															
		CeCILL			0	0			0														
		CeCILL-C			0?	0?			0	0													
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		CPL												0									
		EPL													0								
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		Apache	O*	0*	O*		O*										0*	O*	0	0*	O*	0*	
		Artistic License	O*	0*	0*		0*										0*	0*	O*	0	O*	O*	
	Ье	Academic Free License	O*		0*							0					O*	O*	0*	0*	0	0*	
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0	Oui, la distribu		0?	Une i	ncerti	tude e	existe			lon													

O\ Oui, la distribution est possible sous la licence B, si le concédant a autorisé le relicenciement sous les versions ultérieures de la licence A

O* Oui, la distribution est possible sous la licence B, mais il est nécessaire d'ajouter une clause pour adapter la licence

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What impacts a licensing strategy ?





- Code reuse
- Collaborative development

Your expectations

- Capture part of the value
- Give access to the source code

Parts of a software license

- LICENSE.txt or COPYING.txt : terms of the license itself i.e. a copy-and-paste from the website of the organization that issued the license
- README.txt : terms of application of the license, copyright notice, a brief description of the program ^(*)
- AUTHORS.txt : list of contributors to the software and their affiliation
- **SOURCES.txt** : mentions that must appear in the headers of the source files

(*) optional: information about the license of the documentation and the list of dependencies and their licenses

Start your source files with an appropriate Copyright and License header

GPL

Copyright (C) 2016-2017 University of "..." // this is the owner(s) (mandatory)

<NEW SOFTWARE is a software for doing new things>

James Cook (laboratory of Soft Dev) - Contact: james.cook@research.be // facultative

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You should have received a copy of the GNU General Public Licence along with this program.

If not, see <http://www.gnu.org/licences/>. // these are the licence specific terms (mandatory)

Take-home message

- Think early to the distribution license to avoid compatibility problems
- Always use a license for the code you distribute outside your University
- Universities are the rights holders → Important for the validity of the license (especially the warranty exemption clause)
- Editors now often ask a license
- Your KTO can advise you

LIEU – Network of Knowledge Transfer offices





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THANK YOU

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