

Open-Source & Software

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Wir

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FABLAB NECKAR-ALB e.V.

Gemeinsam selbermachen!

- Gemeinnütziger Verein
- Offene High-Tech Werkstatt
- Wissensvermittlung
 - Eigenproduktion und Selbstbau („Maker“)
 - Neue Technologien & Computer
 - Kunst in Gesellschaft und Technik
- FabLab-Charta



Inhalt

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- Die „Free Software Foundation“ (FSF)
- Verbreitung von Open-Source Software
- Beispiel: Bugfix in einem Open-Source Projekt

Grundgedanke

Freie Software ...

- ... ermöglicht uns zu verstehen, was unsere Maschinen tun
- ... wird der Tatsache gerecht, dass Information an sich nicht in ihrer Verbreitung limitiert ist



- Gründung: 4. Oktober 1985
- Gründer: Richard Stallman
- finanzielle, personelle, technische und juristische Unterstützung des GNU-Projekts

Die 4 Freiheiten

0. Das Programm ausführen.
1. Die Funktionsweise untersuchen und eigenen Bedürfnissen anzupassen.
2. Das Programm weiterverbreiten.
3. Das Programm verbessern und diese Verbesserungen der Öffentlichkeit freigeben.

Copyleft

- Lizenzen:
 - GNU Lesser General Public License (LGPL), Version 3
 - GNU General Public License (GPL), Version 3

		I want to license my code under:					
		GPLv2 only	GPLv2 or later	GPLv3 or later	LGPLv2.1 only	LGPLv2.1 or later	LGPLv3 or later
I want to copy code under:	GPLv2 only	OK	OK [2]	NO	OK: Combination is under GPLv2 only [7]	OK: Combination is under GPLv2 only [7][2]	NO
	GPLv2 or later	OK [1]	OK	OK	OK: Combination is under GPLv2 or later [7]	OK: Combination is under GPLv2 or later [7]	OK: Combination is under GPLv3 [8]
	GPLv3	NO	OK: Combination is under GPLv3 [3]	OK	OK: Combination is under GPLv3 [7]	OK: Combination is under GPLv3 [7]	OK: Combination is under GPLv3 [8]
	LGPLv2.1 only	OK: Convey copied code under GPLv2 [7]	OK: Convey copied code under GPLv2 or later [7]	OK: Convey copied code under GPLv3 [7]	OK	OK [6]	OK: Convey copied code under GPLv3 [7][8]
	LGPLv2.1 or later	OK: Convey copied code under GPLv2 [7][1]	OK: Convey copied code under GPLv2 or later [7]	OK: Convey code under GPLv3 [7]	OK [5]	OK	OK
	LGPLv3	NO	OK: Combination is under GPLv3 [8][3]	OK: Combination is under GPLv3 [8]	OK: Combination is under GPLv3 [7][8]	OK: Combination is under LGPLv3 [4]	OK
I want to use a library under:	GPLv2 only	OK	OK [2]	NO	OK: Combination is under GPLv2 only [7]	OK: Combination is under GPLv2 only [7][2]	NO
	GPLv2 or later	OK [1]	OK	OK	OK: Combination is under GPLv2 or later [7]	OK: Combination is under GPLv2 or later [7]	OK: Combination is under GPLv3 [8]
	GPLv3	NO	OK: Combination is under GPLv3 [3]	OK	OK: Combination is under GPLv3 [7]	OK: Combination is under GPLv3 [7]	OK: Combination is under GPLv3 [8]
	LGPLv2.1 only	OK	OK	OK	OK	OK	OK
	LGPLv2.1 or later	OK	OK	OK	OK	OK	OK
	LGPLv3	NO	OK: Combination is under GPLv3 [9]	OK	OK	OK	OK

Verbreitung von Open-Source Software

Bugfix in Open-Source Project

- Projekt: *vim-pandoc* Plugin für Vim, hosted auf github.com
- Workflow:
 - Report bug
 - Fork project
 - Find & fix bug
 - Create pull request
 - Merge pull request
(by project owner or other devs. with write access to repo)



Lesestoff

- <https://www.fsf.org>
- <https://www.gnu.org>
- <https://www.gnu.org/philosophy/free-sw>
- <https://www.gnu.org/philosophy/>
- <https://www.gnu.org/philosophy/open-source-misses-the-point>
- <http://nvie.com/posts/a-successful-git-branching-model/>



Trivia: Tomaten Parabel

I wrote some code to embed my tweets on my website. There's a statement that would have made no sense in 1990. Actually, it barely makes sense now. But I did it. I'm proud of my site. I built it myself. Occasionally I get an email saying, "What software do you use to run your site and how do I get it?" I think the answer is: receive a Commodore 64 for your tenth birthday and no good games.

But that's not why I'm writing. I'm writing because I decided to grow my own vegetables. A few people I knew were growing their own vegetables, and they kept yakking about how wonderful it was, not depending on manufactured supermarket vegetables, which are evil for some reason, so I thought what the hell.

For a while I was intimidated by the idea of growing vegetables. When I reach for a vegetable, I usually just want to eat it. I don't want to be intimately involved with its creation. I worried I would end up spending more time tending to the health of fragile, overly complicated peas than eating them.

Then I saw an ad for genetically modified seeds. These promised to take the hassle out of growing vegetables, which seemed pretty intriguing. The tomatoes would be big and red and I wouldn't have to do anything. So I got those.

This upset my hippy friends. Especially when I started having problems. My frankenfruit was supposed to be simple but after a few weeks the whole garden stopped growing. My cabbages were flaccid. My carrots were anemic. My spinach wouldn't self-seed. It wasn't supposed to self-seed. The genetics company had engineered it not to, so I'd have to buy new seeds each season. But I thought there should be a way around that.

I asked my hippy friends for help. Well! You'd think I asked for a kidney. They kept bringing up the fact that I was using GM seeds. Eventually they all got together and said, "Max... we can't help you any more. We want to. But you brought these problems on yourself. And the thing is, when you ask for help, you're actually asking us to use our skills and knowledge to prop up a corporatized product that's not just practically inferior to the free alternative you ignored, but actually bad for the world. We just can't do that."

And that was how I taught them to stop asking me for help with Windows. — [Quelle: <http://maxbarry.com/2011/03/23/news.html>]