

Open Source: an introduction

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OSS Watch

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Key messages...

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These are the points to take away from this talk:

- *open source* is a copyright licensing paradigm
- *open source* is about freedom
- *open source* is a software development methodology
- *open source* is about community
- *open source* is a business model
- good policy needs to be discussed, understood, and embedded into current practice
- JISC's open source software policy is good policy

...and relax

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In this talk

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- OSS Watch
- The open source landscape
- The policy framework in the UK

OSS Watch: the UK open source software advisory service

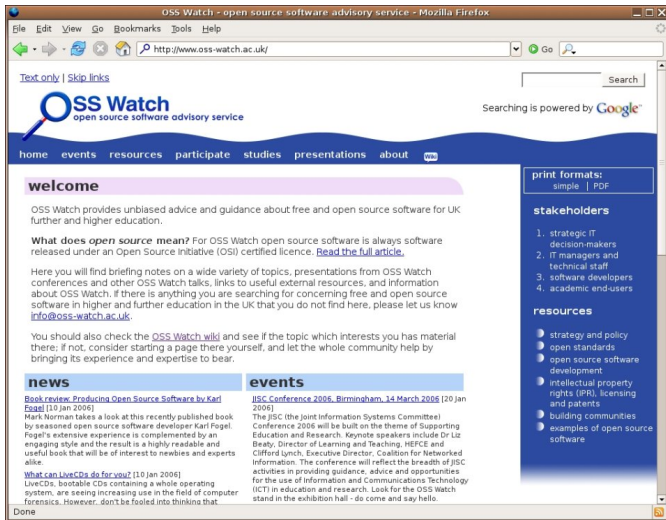
Open Source:
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OSS Watch provides unbiased advice and guidance on free and open source software for UK higher and further education.

- strategic IT decision-makers
- IT managers and technical staff
- software developers
- academic end-users

OSS Watch is funded by the Joint Information Systems Committee (JISC) and based within the Research Technologies Service at the University of Oxford.



The screenshot shows the OSS Watch website in a Mozilla Firefox browser window. The address bar shows the URL <http://www.oss-watch.ac.uk/>. The website has a blue header with the OSS Watch logo and navigation links: home, events, resources, participate, studies, presentations, about, and a RSS icon. A search bar is located in the top right, with the text "Searching is powered by Google".

The main content area is divided into three columns. The left column has a purple "welcome" section with the following text:

OSS Watch provides unbiased advice and guidance about free and open source software for UK further and higher education.

What does open source mean? For OSS Watch open source software is always software released under an Open Source Initiative (OSI) certified licence. [Read the full article.](#)

Here you will find briefing notes on a wide variety of topics, presentations from OSS Watch conferences and other OSS Watch talks, links to useful external resources, and information about OSS Watch. If there is anything you are searching for concerning free and open source software in higher and further education in the UK that you do not find here, please let us know info@oss-watch.ac.uk.

You should also check the [OSS Watch wiki](#) and see if the topic which interests you has material there; if not, consider starting a page there yourself, and let the whole community help by bringing its experience and expertise to bear.

The middle column has a blue "events" section with the following text:

JISC Conference 2006, Birmingham, 14 March 2006 [20 Jan 2006]
The JISC (the joint Information Systems Committee) Conference 2006 will be built on the theme of Supporting Education and Research. Keynote speakers include Dr Liz Beatty, Director of Learning and Teaching, HEFCE and Clifford Lynch, Executive Director, Coalition for Networked Information. The conference will reflect the breadth of JISC activities in providing guidance, advice and opportunities for the use of Information and Communications Technology (ICT) in education and research. Look for the OSS Watch stand in the exhibition hall - do come and say hello.

The right column has a blue "resources" section with the following text:

print formats:
simple | PDF

stakeholders

1. strategic IT decision-makers
2. IT managers and technical staff
3. software developers
4. academic end-users

resources

- strategy and policy
- open standards
- open source software development
- intellectual property rights (IPR), licensing and patents
- building communities
- examples of open source software

The bottom of the browser window shows a "Done" status bar.

Promoting awareness and understanding

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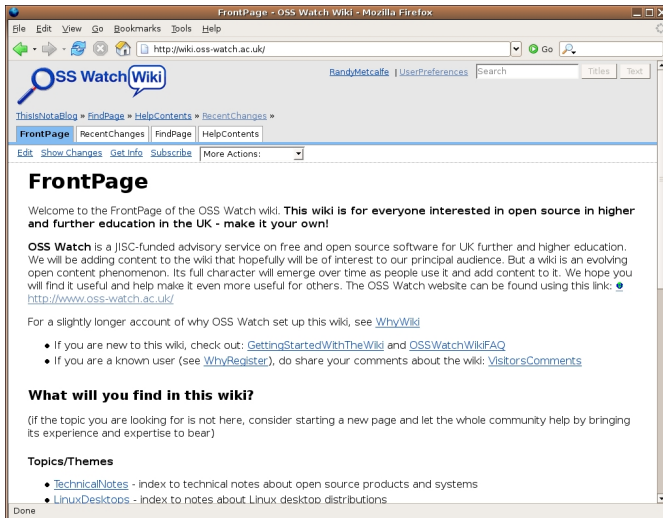
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OSS Watch is *not* an advocacy group. There are many other groups across the world who fulfil the advocacy function, e.g.:

- Free Software Foundation
- Open Forum Europe
- SchoolForgeUK
- and many more

OSS Watch's role is to promote awareness and understanding of the legal, social, technical and economic issues that arise when educational institutions engage with free and open source software.

- Website <http://www.oss-watch.ac.uk/>
- Wiki <http://wiki.oss-watch.ac.uk/>
- Briefing notes and guidance materials
- Conferences and workshops
- Consultation
- Research
 - national survey on open source software use in HE and FE
 - JISC study on models for sustainability in open source projects



FrontPage - OSS Watch Wiki - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://wiki.oss-watch.ac.uk/

OSS Watch Wiki RandyMetcalfe | UserPreferences Search Titles Text

[ThisIsNotABlog](#) » [FindPage](#) » [HelpContents](#) » [RecentChanges](#) »

FrontPage RecentChanges FindPage HelpContents

Edit Show Changes Get Info Subscribe More Actions: ▾

FrontPage

Welcome to the FrontPage of the OSS Watch wiki. **This wiki is for everyone interested in open source in higher and further education in the UK - make it your own!**

OSS Watch is a JISC-funded advisory service on free and open source software for UK further and higher education. We will be adding content to the wiki that hopefully will be of interest to our principal audience. But a wiki is an evolving open content phenomenon. Its full character will emerge over time as people use it and add content to it. We hope you will find it useful and help make it even more useful for others. The OSS Watch website can be found using this link: <http://www.oss-watch.ac.uk/>

For a slightly longer account of why OSS Watch set up this wiki, see [WhyWiki](#)

- If you are new to this wiki, check out: [GettingStartedWithTheWiki](#) and [OSSWatchWikiFAQ](#)
- If you are a known user (see [WhyRegister](#)), do share your comments about the wiki: [VisitorsComments](#)

What will you find in this wiki?

(if the topic you are looking for is not here, consider starting a new page and let the whole community help by bringing its experience and expertise to bear)

Topics/Themes

- [TechnicalNotes](#) - index to technical notes about open source products and systems
- [LinuxDesktops](#) - index to notes about Linux desktop distributions

Done

Open source is not a self-certification scheme.

Either your software is released under an Open Source Initiative (OSI) certified licence or it is **not** open source software.

There are, at present, 58 OSI certified licences.

The first question you should ask of any software claiming to be *open source* is, what licence is this software released under?

All certified licences meet the 10 criteria of the Open Source Definition <http://www.opensource.org/docs/definition.php>

Why OSI?

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The OSI is **not** a legislative body. Its authority resides entirely in the fact that the open source community

- recognizes it as the maintainer of the Open Source Definition (OSD)
- is willing to participate in the OSI certification process
- has not set up a viable alternative

- free redistribution
- source code
- derived works
- integrity of the author's source code
- no discrimination against persons or groups
- no discrimination against fields of endeavour
- distribution of licence
- licence must not be specific to a product
- licence must not restrict other software
- licence must be technology-neutral

Open source is about freedom

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- The freedom to run the program, for any purpose
- The freedom to study how the program works, and adapt it to your needs
- The freedom to redistribute copies so you can help your neighbour
- The freedom to improve the program, and release your improvements to the public, so that the whole community benefits

The Free Software Definition

<http://www.gnu.org/philosophy/free-sw.html>

Free vs Free

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In many languages we distinguish between two very different senses of *free*.

In French, we have *libre* and *gratuit*.

In English, we sometimes mark this distinction by pointing out the difference between *free speech* and *free beer*.

Free and open source software is **not** about free beer!

Open source is a development methodology

Key features of open source development may include:

- Programmer commitment, because the programmer is also the user
- Rapid change, because programmers want to see results
- Unconstrained specifications, because there is no external client
- Collective maintainance of the code
- Response to change, dictated by (perhaps unexpected) users

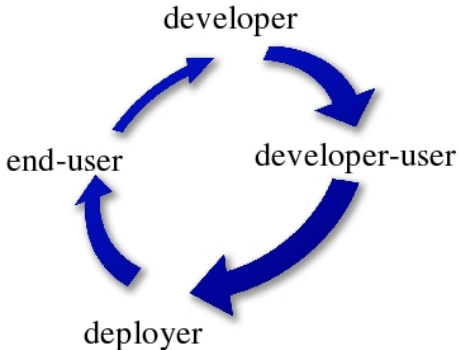
Eric Raymond famously characterised this apparent new development paradigm in his monograph *The Cathedral and the Bazaar*.

Open source is about community

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Those who *merely* deploy open source software are also part of the open source community.



It's the community, not the code, that's important.

Open source is a business model

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Any business whose business model depends upon the use or development of open source software is an open source business.

This leaves plenty of room for many different types of businesses:

- consultation
- business process analysis
- implementation support
- bespoke module development
- ongoing support contractor
- training
- hosting
- and more!

Policy framework in the UK

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- Government Open Source Software Trials: final report
http://www.cabinetoffice.gov.uk/e-government/policy_guidance/index.asp
- Open Source Software: Use within UK Government
<http://www.govtalk.gov.uk/policydocs/>
- Becta report - Open Source Software In Schools
http://www.becta.org.uk/corporate/press_out.cfm?id=4681
- BBC use of open source
<http://www.bbc.co.uk/opensource/>
- OSS Watch <http://www.oss-watch.ac.uk/>

Office of Government Commerce software trials: Sept 2003
- October 2004. Key conclusions:

- Open Source software is a viable and credible alternative to proprietary software for infrastructure implementations, and for meeting the requirements of the majority of desktop users; no significant obstacles were noted for the adoption of Open Source in infrastructure developments
- Adoption of Open Source software can generate significant savings in hardware and software costs for infrastructure implementation, and reduce the licensing costs and hardware refresh requirements for desktop implementation

UK Government open source policy(1)

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The second and current version of the UK government policy was issued on 28 October 2004:

- UK Government will consider OSS solutions alongside proprietary ones in IT procurements. Contracts will be awarded on a value for money basis.
- UK Government will only use products for interoperability that support open standards and specifications in all future IT developments.
- UK Government will seek to avoid lock-in to proprietary IT products and services.

UK Government open source policy(2)

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- UK Government will consider obtaining full rights to bespoke software code or customisations of COTS(Commercial Off The Shelf) software it procures wherever this achieves best value for money.
- Publicly funded Research and Development projects which aim to produce software outputs shall specify a proposed software exploitation route at the start of the project. At the completion of the project, the software shall be exploited either commercially or within an academic community or as OSS.

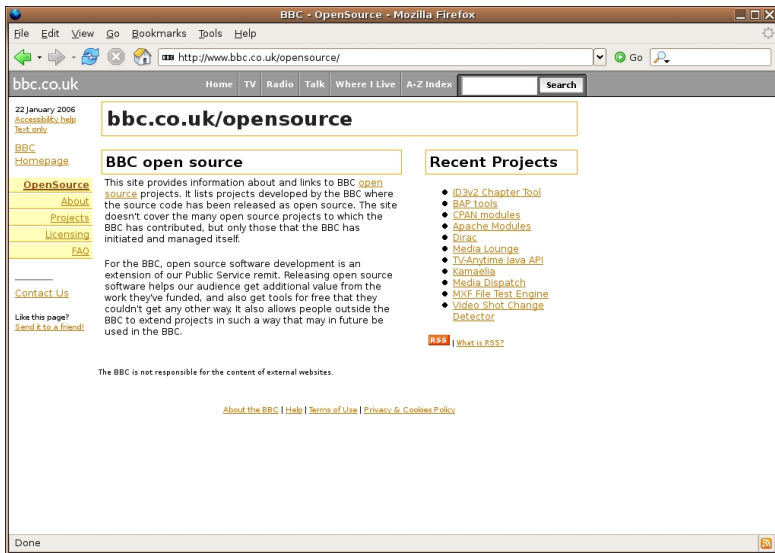
Becta study conducted in 2004-5, published immediately after the May election on 13 May 2005:

- Our study indicates that OSS can be implemented successfully as a networking solution within the technical infrastructure and with obvious cost benefits. It is important to adopt a strategic approach to financial planning in which any savings are then allocated to best meet the wider educational aims of the school.
- The use of office-based OSS such as StarOffice and OpenOffice offers a cost-effective alternative to proprietary office software.

BBC use and development of open source

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The screenshot shows a Mozilla Firefox browser window titled "BBC - OpenSource - Mozilla Firefox". The address bar shows the URL "http://www.bbc.co.uk/opensource/". The page content includes the BBC logo, navigation links (Home, TV, Radio, Talk, Where I Live, A-Z Index), and a search bar. The main heading is "bbc.co.uk/opensource". Below this, there is a section titled "BBC open source" which states: "This site provides information about and links to BBC open source projects. It lists projects developed by the BBC where the source code has been released as open source. The site doesn't cover the many open source projects to which the BBC has contributed, but only those that the BBC has initiated and managed itself." To the right of this section is a "Recent Projects" list containing links to various tools and APIs. At the bottom of the page, there is a footer with links to "About the BBC", "Help", "Terms of Use", and "Privacy & Cookies Policy".

22 January 2006
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bbc.co.uk/opensource

BBC open source

This site provides information about and links to BBC [open source](#) projects. It lists projects developed by the BBC where the source code has been released as open source. The site doesn't cover the many open source projects to which the BBC has contributed, but only those that the BBC has initiated and managed itself.

For the BBC, open source software development is an extension of our Public Service remit. Releasing open source software helps our audience get additional value from the work they've funded, and also get tools for free that they couldn't get any other way. It also allows people outside the BBC to extend projects in such a way that may in future be used in the BBC.

Recent Projects

- [ID3v2 Chapter Tool](#)
- [RAP Tools](#)
- [CPAN modules](#)
- [Apache Modules](#)
- [Dirac](#)
- [Media Lounge](#)
- [TV-Anytime Java API](#)
- [Kamaelia](#)
- [Media Dispatch](#)
- [MXF File Test Engine](#)
- [Video Shot Change Detector](#)

[RSS](#) | [What is RSS?](#)

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The *JISC Policy on Open Source Software for JISC Projects and Services* was initially drafted by Sebastian Rahtz and Stuart Yeates of OSS Watch. It is based on

- UK government open source policy
- well-established best-practice in software engineering and management of intellectual property rights (IPR)
- current IT best-practice within JISC and higher and further education more broadly

It was confirmed by the principal JISC committee in February 2005, but not published on the JISC website until September 2005.

http://www.jisc.ac.uk/index.cfm?name=about_policy

JISC open source policy(1)

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- Advice and guidance to the communities JISC serves must be neutral and unbiased, and must not discriminate between open source and closed source software products.
- Calls for funding, the bidding process, the award of funding, the administration of awarded funding and the evaluation of funded projects and services must not discriminate between open source and closed source software, unless the purpose of the projects or services specifically requires it.
- Where open source and closed source software are evaluated against one another, value for money over the expected lifetime of the system must be compared.

JISC open source policy(2)

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- Projects must maintain an IPR register, listing all contributors to their software and who owns the copyright on contributions.
- The ownership of code which is to be developed in joint projects must be established before work begins.
- Copyright of software, documentation, design materials, user interface and source code must be released under an OSI-approved open source licence, unless the bid explicitly argues why this should not be the case and proposes an alternative licence.

JISC open source policy(3)

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- Projects must state in their bid whether they foresee the project continuing beyond the timespan of funding, and if so whom they see participating in the project.
- Projects should engage with end users and other parties to encourage and build self- sustaining communities.
- Projects should accept bug reports, patches, translations and feedback from contributors outside the project.

These are the points to take away from this talk:

- *open source* is a copyright licensing paradigm
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Further Information

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For more information on open source software development and deployment, visit <http://www.oss-watch.ac.uk/> or write to info@oss-watch.ac.uk