



Tecnologie open-source

Docente: Dott. Ing. Luigi Bellio

E-mail: bellio@math.unipd.it

Web: <http://www.math.unipd.it/~bellio/>





Crediti: 6 crediti formativi

40 ore di lezione, 16 ore di laboratorio

Orario: Lunedì 09:30 - 11:30 Lezione (1BC/50)

Giovedì 09:30 - 11:30 Lezione (1BC/50)

Venerdì 09:30 - 11:30 Laboratorio (LabP036)

Ricevimento: Giovedì 11:30 - 12:30



Books

- *Open Leadership: How Social Technology Can Transform the Way You Lead*, Charlene Li - Wiley, 2010
- *Il Software Libero in Italia*, Andrea Glorioso - ShaKe Edizioni, 2009
- *Proprietà condivisa e open source. Il ruolo della conoscenza in emergenti ecologie del valore*, Luciano Pilotti, Andrea Ganzaroli - Franco Angeli, 2009
- *Economia dell'Open Source*, Luca Barbarito - Pearson, 2008
- *The Open Source Alternative: Understanding Risks and Leveraging Opportunities*, Heather J. Meeker - Wiley, 2008
- *Intellectual Property and Open Source: A Practical Guide to Protecting Code*, Van Lindberg - O'Reilly, 2008





Books

- *Open Business Models: How to Thrive in the New Innovation Landscape*, Henry Chesbrough - Harvard Business School Press, 2006
- *Perspectives on Free and Open Source Software*, Joseph Feller - The MIT Press, 2007
- *Open Source for the Enterprise: Managing Risks, Reaping Rewards*, Dan Woods, Gautam Guliani - O'Reilly, 2005
- *Innovation happens elsewhere*, Ron Goldman, Richard P. Gabriel - Morgan Kaufmann, 2005
- *Open Source: Strategie, Organizzazione, Prospettive*, Moreno Muffatto, Matteo Faldani - il Mulino, 2004





Lab practice

- Analysis and design of a collaborative development platform:
 - web site authoring tool
 - mailing list manager
 - version control system
 - issue tracking system
 - wiki software
 - build automation software
 - continuous integration system
 - quality assurance tools





Exam

- Report, presentation and discussion on:
 - my open source software project: vision, market, license, community and collaborative platform, developing process and project management
 - analysis of an open source project: strong points and weak points, strategic move, software quality and community support, target market
- Five sessions:
 - 23/06/2011 by appointment
 - 07/07/2011 by appointment
 - 08/09/2011 by appointment
 - 22/09/2011 by appointment
 - 15/12/2011 by appointment





Course contents

- Proprietary Software and Closed Source - Free Software and Open Source
- Free Software Movement and Open Source Movement
- Intellectual property, copyright, trademark, patent
- Free and Open Source Software (FOSS) - Past, present and future
- Licenses and legal issues
- Business Strategy
- New development processes - Agile methodologies
- Communities and collaborative environment
- Success stories - Linux, Apache, Eclipse, Open Office
- Free Software for companies, public administration and education
- Not only software: standards, formats, protocols, architectures





To President Obama: Please Consider Open Source (February 10, 2009)

- open-source software has already resulted in **dramatic cost reductions** in many technology areas
 - application hosting & infrastructure, thanks to open-source operating systems, application servers, and other products like Linux, Apache, Tomcat
 - application development and deployment, thanks to tools like Eclipse, Ruby on Rails, subversion
 - communication and collaboration, thanks to open-source applications such as OpenOffice and WordPress
- building **high quality software at much lower costs** through collaboration will be a catalyst for good work between software developers in the IT industry and subject matter experts





To President Obama: Please Consider Open Source

- open-source software brings **transparency to software development**; there are no “black boxes” in open-source software and therefore no need to guess what is going on “behind the scenes”
- this means a better product for everyone, because there is visibility at every level of the application, from the user interface to the data implementation
- the open-source industry is changing the world of software development

John Powell (Alfresco), Don Klaiss (Compiere), Javier Soltero (Hyperic), Brian Gentile (Jaspersoft), Ross Mason (MuleSource), Justin Steinman (Novell), Tom Rabon (Red Hat), Anthony Gold (Unisys)



Answering the Call for Open Source Government (April 6, 2009)

- open source principles are changing how we learn, how we share information, how developers create, and how companies do business
- when information is open and individuals have the means to contribute, **everyone shares in the responsibility for improvement**
- open source can also provide access to information; Open Document Format, or ODF, is a standard that asserts that public documents should be based in open, non-proprietary formats that anyone can read at any time
- we believe that open source also creates a **meritocracy**, an environment where everyone can contribute, and ideas are adopted and rewarded based on their merit. A meritocracy recognizes that the best ideas can come from anyone, anywhere

Jim Whitehurst (Red Hat)





Open Government Directive (December 8, 2009)

- To the extent practicable and subject to valid restrictions, **agencies should publish information online in an open format** that can be retrieved, downloaded, indexed, and searched by commonly used web search applications. An open format is one that is **platform independent, machine readable**, and made **available to the public** without restrictions that would impede the re-use of that information.





Open Government Directive

- The **three principles** of transparency, participation, and collaboration form the cornerstone of an open government. **Transparency** promotes accountability by providing the public with information about what the Government is doing. **Participation** allows members of the public to contribute ideas and expertise so that their government can make policies with the benefit of information that is widely dispersed in society. **Collaboration** improves the effectiveness of Government by encouraging partnerships and cooperation within the Federal Government, across levels of government, and between the Government and private institutions.

<http://www.whitehouse.gov/open>





EXECUTIVE OFFICE OF THE PRESIDENT
OFFICE OF MANAGEMENT AND BUDGET
WASHINGTON, D. C. 20503

January 7, 2011

MEMORANDUM FOR CHIEF INFORMATION OFFICERS AND
SENIOR PROCUREMENT EXECUTIVES

FROM:

Vivek Kundra *Vivek Kundra*
U.S. Chief Information Officer

Daniel I. Gordon *[Signature]*
Administrator for Federal Procurement Policy

Victoria A. Espinel *[Signature]*
U.S. Intellectual Property Enforcement Coordinator

SUBJECT: Technology Neutrality



Technology Neutrality

- remind agencies of the Federal Government's policy of selecting and acquiring information technology that best fits the needs of the Federal Government, including of being **technology and vendor neutral** in acquisitions for information technology (IT)
- this long-standing policy helps ensure that federal investments in IT are **merit-based, improve the performance** of our government and **create value** for the American people
- in the context of developing requirements and planning acquisitions for software, for example, this means, as a general matter, that agencies should analyze **alternatives that include proprietary, open source, and mixed source technologies**



U.S. DEPARTMENT OF LABOR

Employment and Training Administration

Notice of Availability of Funds and Solicitation for Grant Applications for Trade Adjustment Assistance Community College and Career Training Grants Program

AGENCY: Employment and Training Administration, U.S. Department of Labor

ANNOUNCEMENT TYPE: Notice of Solicitation for Grant Applications (SGA)

Funding Opportunity Number: SGA/DFA PY 10-03

Catalog of Federal Domestic Assistance Number: 17.282

KEY DATES: The closing date for receipt of applications under this announcement is April 21, 2011.

SUMMARY: The U.S. Department of Labor (DOL or the Department) announces the availability of up to \$500 million in grant funds to be awarded under the Trade Adjustment Assistance Community College and Career Training grants program (TAACCCT). These funds are available

January 20, 2011

