

Dr. Satish Annigeri
Professor, Civil Engineering Department
B.V.B. College of Engineering & Technology, Hubli

FREE AND OPEN SOURCE SOFTWARE IN ENGINEERING EDUCATION

Contents

- Introduction to FOSS
- FOSS Operating Systems
- FOSS for Mathematics
- FOSS for Personal Productivity
- FOSS for Software Development
- FOSS for Technical Document Preparation
- FOSS for Organizations

FOSS Operating Systems

⦿ Linux

- Debian GNU/Linux
- Ubuntu – Desktop and Server editions
- Fedora

⦿ BSD Unix

- FreeBSD, PC-BSD, OpenBSD, NetBSD

⦿ Specialized Distributions

- OpenFiler – NAS
- Untangle

FOSS for Mathematics

- ⊙ Numerical computation
 - Scilab, GNU Octave, FreeMat
- ⊙ Computer Algebra Systems
 - Maxima, wxMaxima
- ⊙ Statistics
 - R – Project
- ⊙ Graph plotting software
 - gnuplot

FOSS for Personal Productivity

- ⦿ OpenOffice.org
- ⦿ Multimedia
 - GIMP – Adobe Photoshop
 - InkScape – Adobe Illustrator
 - F – Spot : Photo management (Picasa)
 - VLC media player and convertor
 - Audacity – Audio file editor

FOSS for Software Development

- ⊙ Programming Languages
 - GNU Compiler Collection (GCC)
 - C, C++, Fortran95, Java
 - Perl, PHP, Python, Ruby
- ⊙ Integrated Development Environments
 - Eclipse, NetBeans, Aptana
- ⊙ Web Servers
 - Apache
- ⊙ SQL Servers
 - MySQL, PostgreSQL

FOSS for Technical Document Preparation

- LaTeX for scientific document preparation and presentations
- TeXMaker – IDE for LaTeX document preparation

FLOSS for Organizations

- ⦿ Operating Systems
- ⦿ Virtualization
 - Xen, QEMU, KVM, VirtualBox
- ⦿ Programming Languages, IDEs and Technologies
- ⦿ Document Management Systems (DMS)
 - KnowledgeTree
 - Dspace
 - Eprints

FOSS for Organizations

- ◎ Learning Management Systems (LMS)
 - Moodle
 - Claroline
 - Sakai Project
- ◎ Content Management Systems (CMS)
 - Drupal, Joomla, Wordpress
 - DekiWiki, Liferay, MediaWiki
- ◎ GroupWare
 - Group-Office, eGroupWare

THANK YOU