



# Pia's top 10 Open Source applications for Education

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26/11/08

VITTA - Top 10 OSS for Education

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# #1 – for the desktop

## Ubuntu/Edubuntu

- Feature rich and *fun* environment
- *Hundreds* of free & useful applications
  - Safe and able to be locked down
- Teach real world skills – Google, Wikimedia, etc
  - Scalable to school needs, not ICT budget :)
  - Can easily deploy by LTSP, Live CDs & VMs



## #2 – for teaching littlies

### **Gcompris, Childsplay & Tux series (Math, Type, Paint)**

- Free – so kids can enjoy at home!
- Over 80 activities with many levels
  - Suitable to primary school ages
  - Runs on Mac, Linux and Windows<sup>1</sup>
- Easy to fit into your existing classroom



# #3 - for teaching animation

**3D – Alice 3D, Blender3D**  
**2D – Synfig, Pencil, Ktoons**  
**1D – Inkscape, GIMP**

- Often cross platform
  - Fun and free
- Courseware available
- Many Youtube tutorials available



## #4 – for recording

**Audio – Audacity (Medibuntu)**  
**Video – Stopmotion/Kino**  
**Screencasts – Istanbul, CamStudio,**  
**Jing?**

- Good documentation available
  - Make your own screencasts
  - They can take the tools home!
- Create training for students and teachers



# #5 - for teaching programming



**Web – LAMP, Java, CSS, W3C**  
**Software – C++, Python, GCC, loads!**  
**Devel tools – SVN, sourceforge, Bugzilla**  
**Eclipse (Java, PHP & Python)**

- Real world application
  - Real world examples you can download
  - Free to take home and onto jobs and uni
    - Necessary for real world jobs!
- (pretty much every successful Web 2.0 initiative!)



# #6 – for collaboration

## Open Source communities

- Teach students how to collaborate online
  - Teaching contribution skills
- Contribute to Open Education Resources (eg – open clipart, Wikipedia, OER commons)
- Students can contribute to *real* projects
- Help student build online public profile (employers Google you these days :)



# #7 – for games development

## **Wesnoth, PyGame, Alice3D, PyDance, Scratch, Quake!**

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  - Teaching contribution skills
- Students can contribute to *real* projects
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# #8 - for teaching web apps

**CMS – Drupal, Joomla**  
**Blogging – Wordpress**  
**VoIP – Asterisk**  
**Videochat – Telepathy**  
**eLearning – Moodle**

- Students helping create school solutions
  - Don't reinvent the wheel
  - Dynamic web, not static
- Teach accessibility, concepts of Google Juice



## #9 – for ITD

### **LTSP/Wine/VirtualBox**

- Easy delivery of Linux environment
  - Very low maintenance overhead
    - Only need “Remote Desktop”
      - Single instance to manage
- Great tools for profile management (eg – Sabayon)
- Emulate Windows apps on Linux



# #10 – using Open Source

## Google & Communities

- Search for “open source <foo>”
- Look for existing tools and courseware
  - Get in contact with others
    - Edulists - Open Source
  - LUV EduSIG, Linux Australia
    - Moodle community
    - Many more!!
- OSS CDs for fund raising: better than chocolate!



# Thanks & References



The future is open, so use it!

<http://linux.org.au/education/>

<http://sites.google.com/site/webdevedu/>

<http://openeducation.org.au/>

<http://ask-oss.mq.edu.au/>

<http://olpcfriends.org/>

<http://www.edulists.com.au/mailman/listinfo/opensource/>