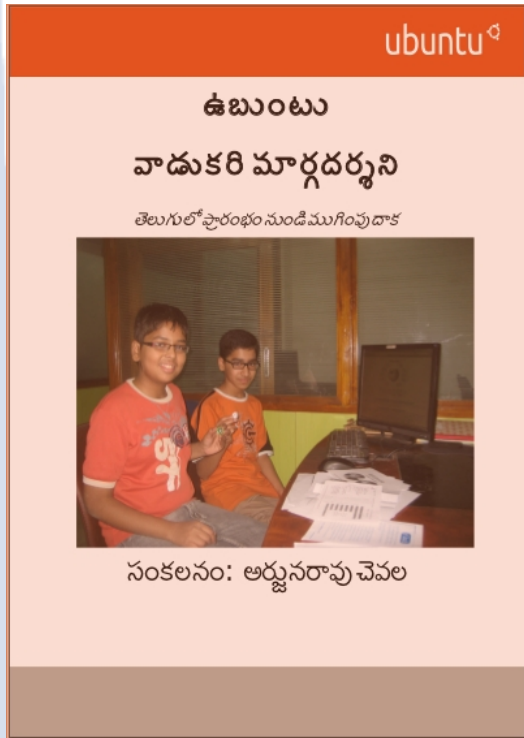


How to publish a book with Free and Open Source Software



Talk for BCB10 on 11 June 2011

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Independent Technologist

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Acknowledgements: Wikimedia projects

Outline

- Idea for a new book?
- No of contributors and Licensing model
- Wikibooks as collaboration platform.
- Typesetting/Layout with Libreoffice-few tips
- Making book which can be used in electronic and physical versions
- Making ebook in epub format
- Summary

Idea for a new book?

- Quest for Knowledge
- Existing sources inadequate
- Dissatisfaction with other mediums to communicate ideas


Decide on Contributors

- **Single**
 - Faster pace of work
 - Need for external support to improve quality
- **Multiple**
 - Slower pace of work
 - Leverage others for reviews
 - Need for collaboration platform

Licensing Model and implications

- Copyright: All rights reserved
 - Need to invest for graphics, design services
 - Possibility of earning money and fame
- Copyleft:
 - Ability to leverage copyleft content
 - Possibility of earning fame

Collaboration platform-Wikibooks



WIKIBOOKS
Open books for an open world

- Main Page
- Help
- Browse
- Cookbook
- Wikijunior
- Featured books
- Recent changes
- Donations
- Random book

▼ Community

- Reading room
- Community portal
- Bulletin Board
- Help out!
- Policies and guidelines
- Contact us

► Toolbox

— Algorithms by discussion by pro

Main Page **Discussion** Read View source View hi

The Wikimedia Board of Trustees election has started. [Please vote.](#)

[Overview](#) • [Using Wikibooks](#) • [Questions](#) • [Help](#)

Welcome to Wikibooks,
the open-content textbooks collection that **anyone**
can edit.
2,382 books with 36,807 pages

- [Computi](#)
- [Engineer](#)
- [Humanit](#)

More featured books »



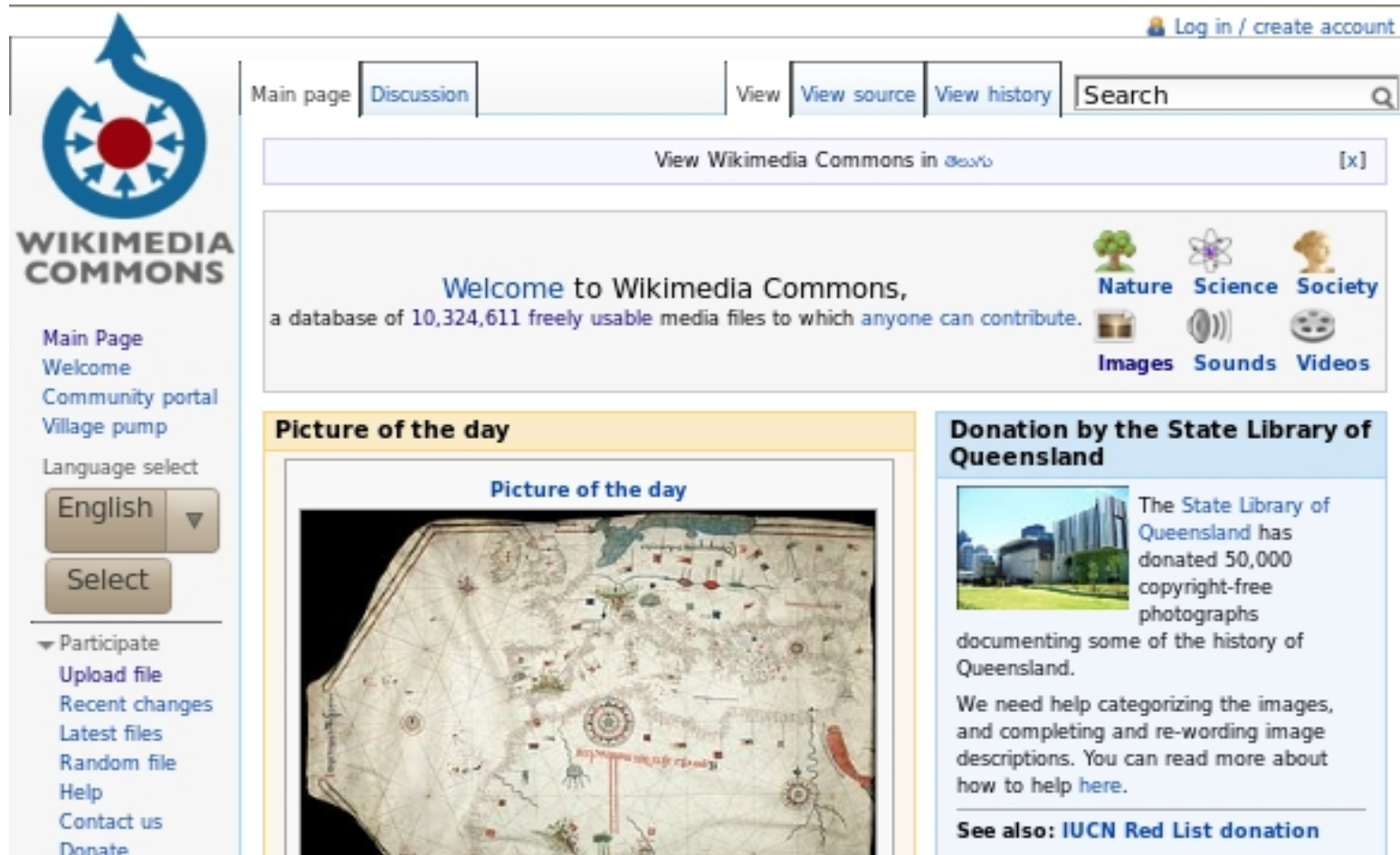
The [Algorithms](#) book aims to be an accessible introduction into the design and analysis of efficient algorithms.

Image credit

More featured children's books »



Free media



The image shows the Wikimedia Commons homepage. At the top right, there is a "Log in / create account" link. Below it, navigation tabs include "Main page", "Discussion", "View", "View source", and "View history". A search bar is located to the right of these tabs. A banner below the navigation says "View Wikimedia Commons in *DeVb* [x]". The main content area features a welcome message: "Welcome to Wikimedia Commons, a database of 10,324,611 freely usable media files to which anyone can contribute." To the right of this message are icons for "Nature", "Science", and "Society", and below them are icons for "Images", "Sounds", and "Videos". On the left side, there is a sidebar with the Wikimedia Commons logo, a "Language select" dropdown menu set to "English", and a "Participate" section with links for "Upload file", "Recent changes", "Latest files", "Random file", "Help", "Contact us", and "Donate". Below the main content, there are two featured sections: "Picture of the day" showing a historical map, and "Donation by the State Library of Queensland" with a photograph of a library building and text stating that 50,000 copyright-free photographs were donated to document Queensland's history.

Wikibooks print/export

Collection creator

With the *collection creator* you can create a collection containing wiki pages of your choice. You can export the collection in different formats (for example PDF or ODF) or order a printed copy.

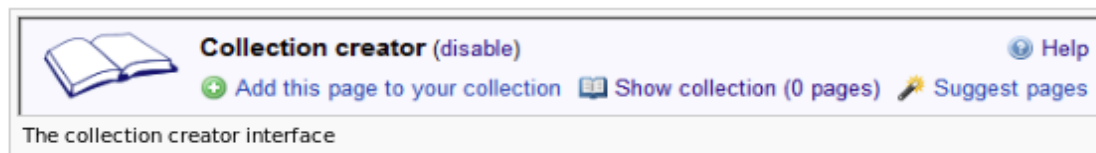
Start collection creator

Cancel

See [Help:Collections](#) for more information.

Using the collection creator

After the *collection creator* has been enabled, the box as seen below is shown above each wiki page.



Add this page to your collection

Adds the currently viewed page to your collection.

Show collection

Opens a new page which will show a list of all pages that you added to your collection. On that page, you can **change the order** of the pages in your collection and **structure** them using chapters. Further, you can **download** the books as a [PDF](#) or [ODF](#), or order a **printed book**.

Suggest pages

This tool analyzes the current set of pages in your book and **suggests** pages that might be also relevant to the overall topic of your collection. This tool allows to create collections **quickly**.

Disable

This will **disable** the *Collection creator* and **delete** your collection (unless you saved it first).

A page in Wikibook

ఉబుంటు/తెలుగు టైపు చేయటం

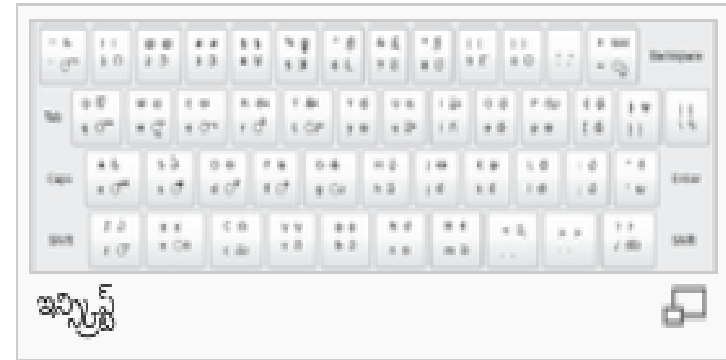
< ఉబుంటు

ఉబుంటు/తెలుగు లినక్స్ లో టైపింగు చేయు విధానాలు చాలా వున్నాయి. ఈ విభాగంలో భారత దేశం ప్రామాణిక ప్రవేశపెట్టువద్దతి ఐన ఇన్స్ట్రక్షన్ గురించి వివరంగా మరియు ఇతర వద్దతులు గురించి క్లుప్తంగా తెలుసుకుందాము.

సహజతోడ్పాటుతో ఇన్స్ట్రక్షన్

[మార్పు]

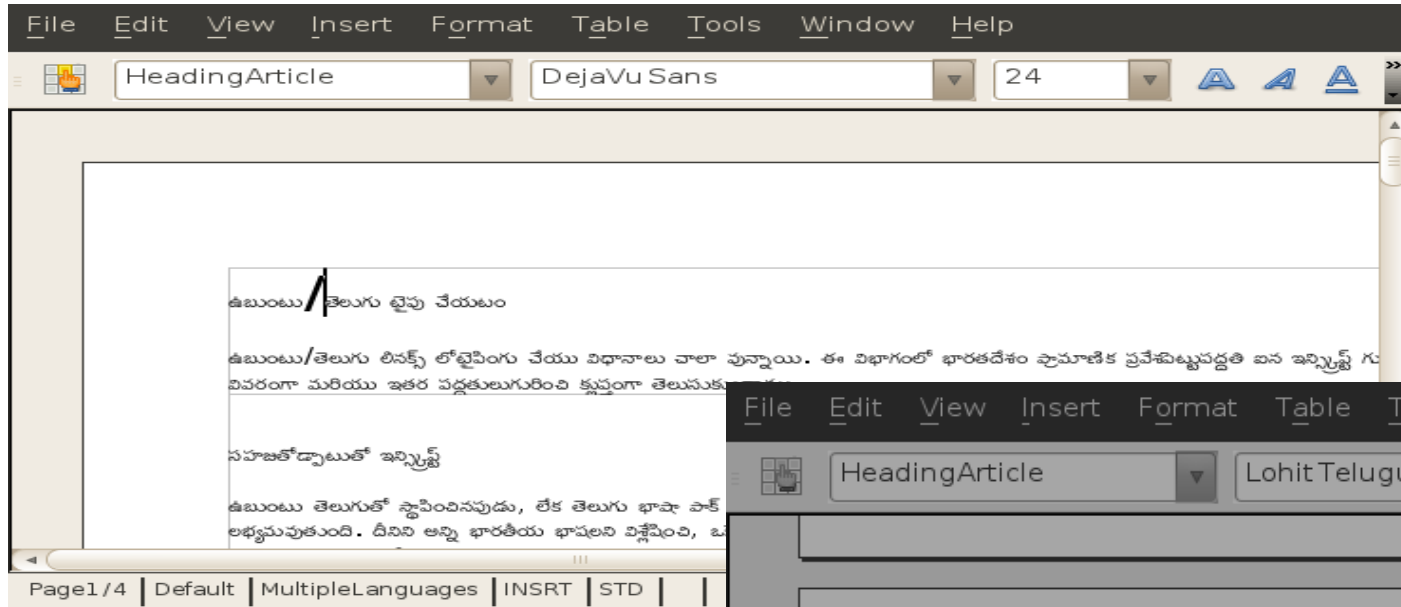
ఉబుంటు తెలుగుతో స్థాపించినపుడు, లేక తెలుగు భాషా పాక్ స్థాపించినపుడు సహజంగా ఇన్స్ట్రక్షన్ కీ బోర్డు ఇండియా తెలుగు అనే పేరుతో లభ్యమవుతుంది. దీనిని అన్ని భారతీయ భాషలని విశ్లేషించి, ఒకేలా వుండేలా ప్రామాణీకరించారు. దీనిలో ఎడమవైపు అచ్చులు కుడివైపు హల్లులు వున్నాయి. అచ్చుల కీలలో గుణింతాలు మామూలుగాను, పిప్లీతో అచ్చులుగాను వస్తాయి. ప్రాన్య అచ్చులు ప్రధాన పేరుసలో, ద్విధ అచ్చులు పై పేరుసలో వున్నాయి. 'd' కు మామూలుగా హలాంత్ (ం వకార పాల్లు) వస్తుంది. దీనిని సంయుక్త అక్షరాలకు వాడతారు.



Typesetting/Layout

- **Pediapress Print/export extension**
 - Easy supports English and other European languages
 - Can be ordered from Pediapress
- **Export in .odt format**
 - Gives maximum freedom

Typesetting/Layout Corrections in LibO



How to publish a book with FOSS -Arjuna Rao C

Layout with LibreOffice-few tips

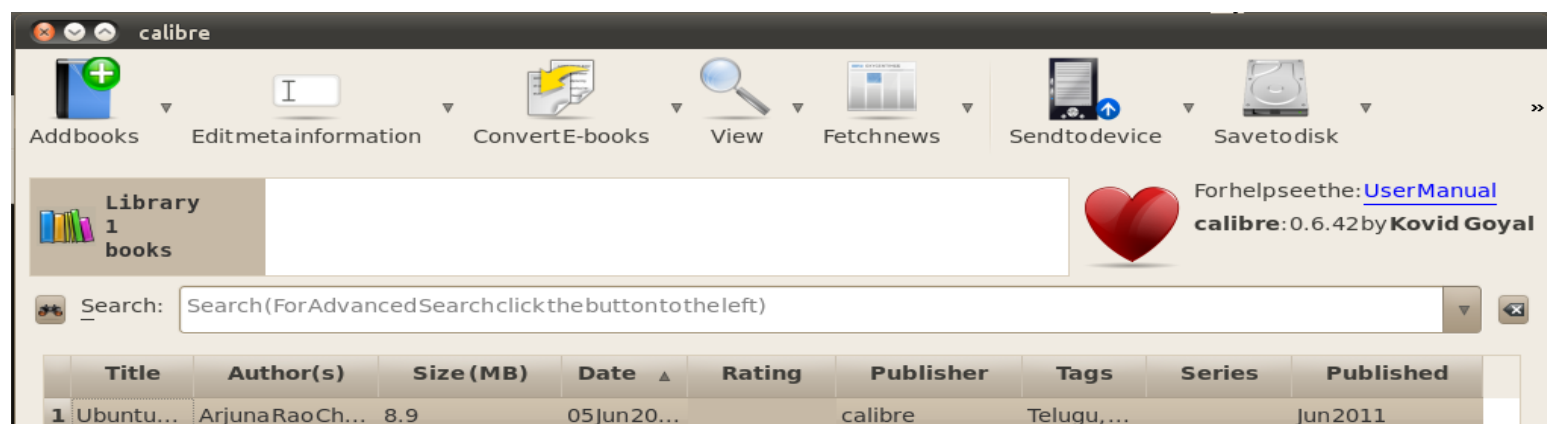
- Directory structure of wikiarticle exported and needs to be cleaned up
- Headings are exported with named styles
- By modifying the style, you can alter the layout to your taste
- Pictures need to be separately added
- For Booklet style, ensure that number of pages is a multiple of 4, add blank pages at the end if required
- Use Libreoffice export as pdf feature

Making Printable and Electronic books

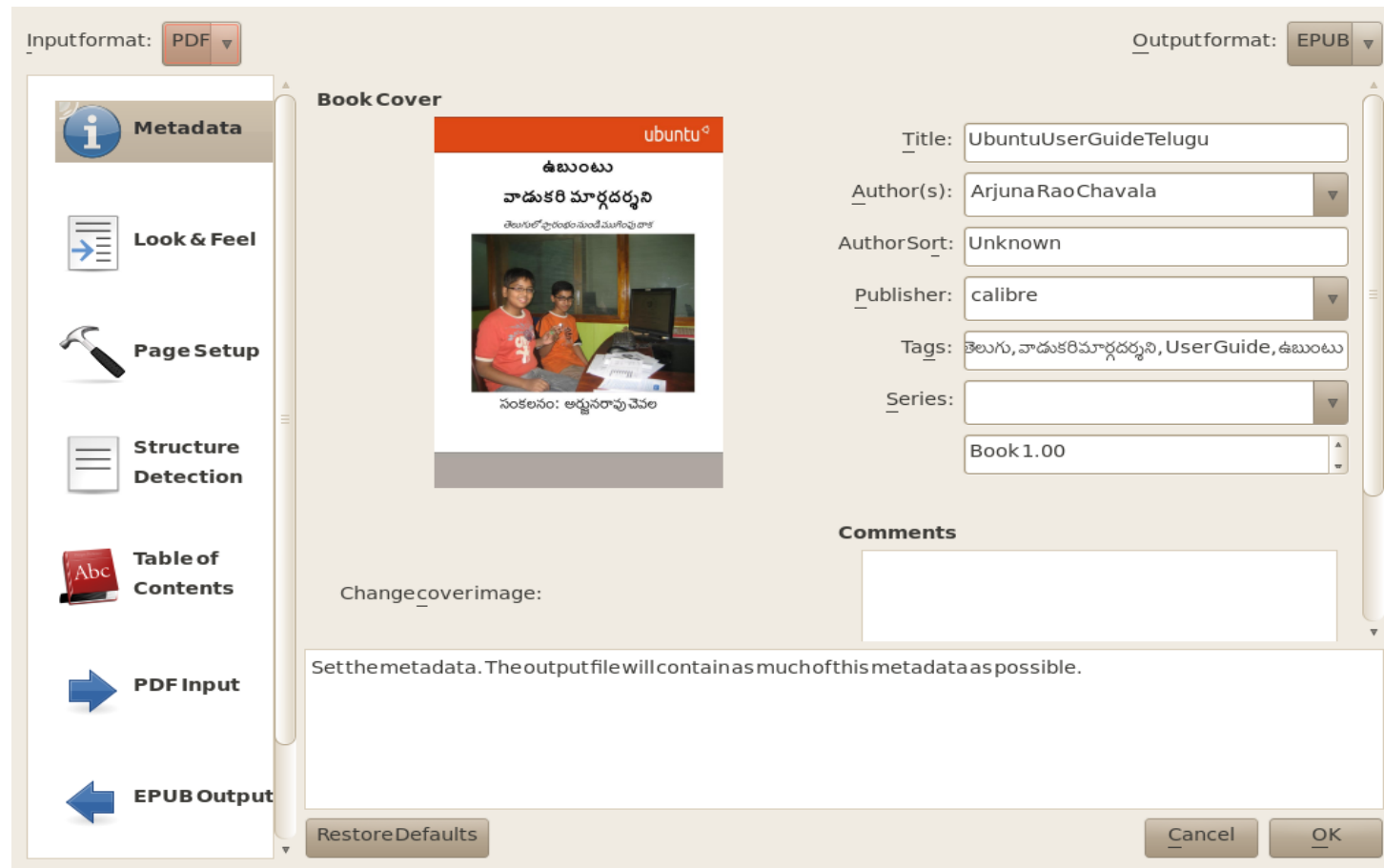
- PDF files usually do not have explicit contents page but have navigation outline.
- Hyperlinks are not useful with printed version
- Add Table of Contents explicitly
- Add hyperlinks into the captions (with a short url service) so that people with print access can use the online resources easily
- Tools like PDF-Shuffler can help combine and rearrange pages, but the navigation outlines will be lost.

E-books

- Use Calibre to convert from PDF to E-book format (epub)
- Cover pages are converted as image
- Issues remain with support of Indian languages



Epub conversion



Distribution/sale of e-books

- Upload on Wikimedia Commons
- Portals
 - Pothi (<http://pothi.com/pothi/>)

Summary

- Wikibooks and LibreOffice help in easy generation of digital books.
- Minor style adjustments, separate embedding of images are needed for a good layout.
- Add cover pages with appropriate graphics
- Ensure for booklet formats that your page count is multiple of 4
- Generate TOC and embed short form URLs in captions/footnotes for making print version easy to use.
- Use Calibre to convert from pdf to epub format
- Use Adobe Reader(The only Free but not open source software required) to print in booklet form and pin the printed pages in the middle.

References

- Wikibooks: <http://en.wikibooks.org>
- Libreoffice: <http://www.libreoffice.org/>
- Calibre: <http://calibre-ebook.com/>
- Ebooks wiki page:
<http://en.wikipedia.org/wiki/E-book>

Thanks for your attention,
For clarifications contact

arjunaraoc [at] gmail.com