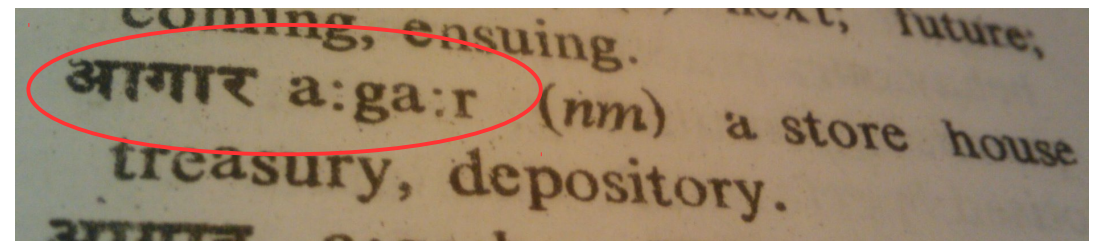
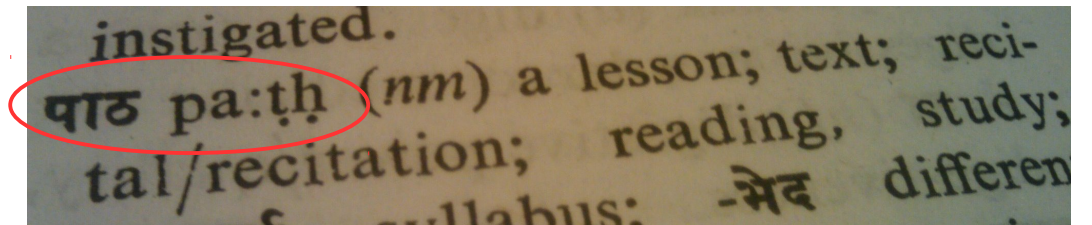


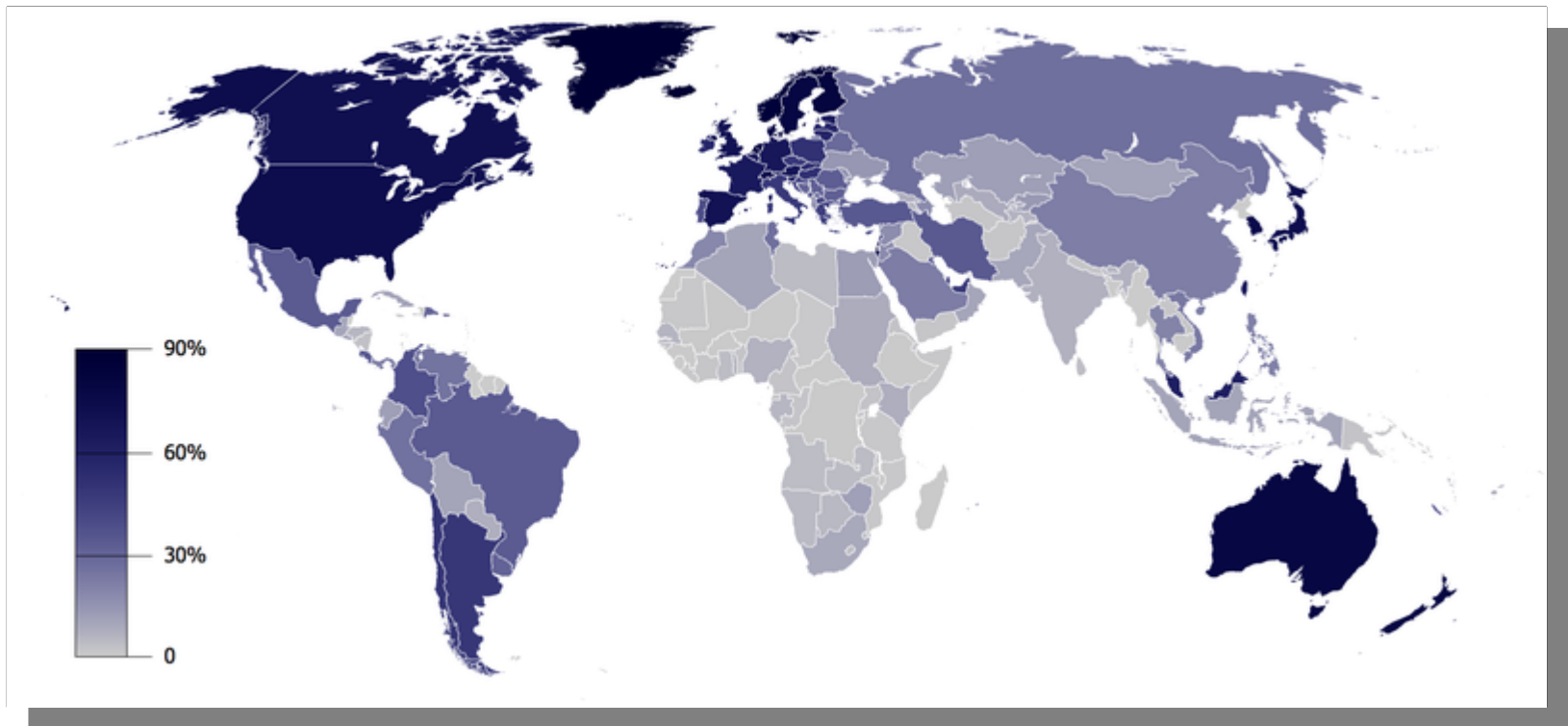
# Pathagar: A Book Server

## Open Publication Distribution System

Pathagar : Path + Agar  
पाठागार : पाठ + आगार



# Internet Access



[http://en.wikipedia.org/wiki/File:Internet\\_Penetration.png](http://en.wikipedia.org/wiki/File:Internet_Penetration.png)

# Internet Usage Statistics

*3/4 of the world is not connected*

<b>WORLD INTERNET USAGE AND POPULATION STATISTICS</b>						
<b>World Regions</b>	<b>Population ( 2009 Est.)</b>	<b>Internet Users Dec. 31, 2000</b>	<b>Internet Users Latest Data</b>	<b>Penetration (% Population)</b>	<b>Growth 2000-2009</b>	<b>Users % of Table</b>
<a href="#">Africa</a>	991,002,342	4,514,400	<b>86,217,900</b>	8.7 %	1,809.8 %	4.8 %
<a href="#">Asia</a>	3,808,070,503	114,304,000	<b>764,435,900</b>	20.1 %	568.8 %	42.4 %
<a href="#">Europe</a>	803,850,858	105,096,093	<b>425,773,571</b>	53.0 %	305.1 %	23.6 %
<a href="#">Middle East</a>	202,687,005	3,284,800	<b>58,309,546</b>	28.8 %	1,675.1 %	3.2 %
<a href="#">North America</a>	340,831,831	108,096,800	<b>259,561,000</b>	76.2 %	140.1 %	14.4 %
<a href="#">Latin America/Caribbean</a>	586,662,468	18,068,919	<b>186,922,050</b>	31.9 %	934.5 %	10.4 %
<a href="#">Oceania / Australia</a>	34,700,201	7,620,480	<b>21,110,490</b>	60.8 %	177.0 %	1.2 %
<b>WORLD TOTAL</b>	6,767,805,208	360,985,492	<b>1,802,330,457</b>	<b>26.6 %</b>	399.3 %	100.0 %

NOTES: (1) Internet Usage and World Population Statistics are for December 31, 2009. (2) CLICK on each world region name for detailed regional usage information. (3) Demographic (Population) numbers are based on data from the [US Census Bureau](#) . (4) Internet usage information comes from data published by [Nielsen Online](#), by the [International Telecommunications Union](#), by [GfK](#), local Regulators and other reliable sources. (5) For definitions, disclaimer, and navigation help, please refer to the [Site Surfing Guide](#). (6) Information in this site may be cited, giving the due credit to [www.internetworldstats.com](http://www.internetworldstats.com). Copyright © 2000 - 2010, Miniwatts Marketing Group. All rights reserved worldwide.

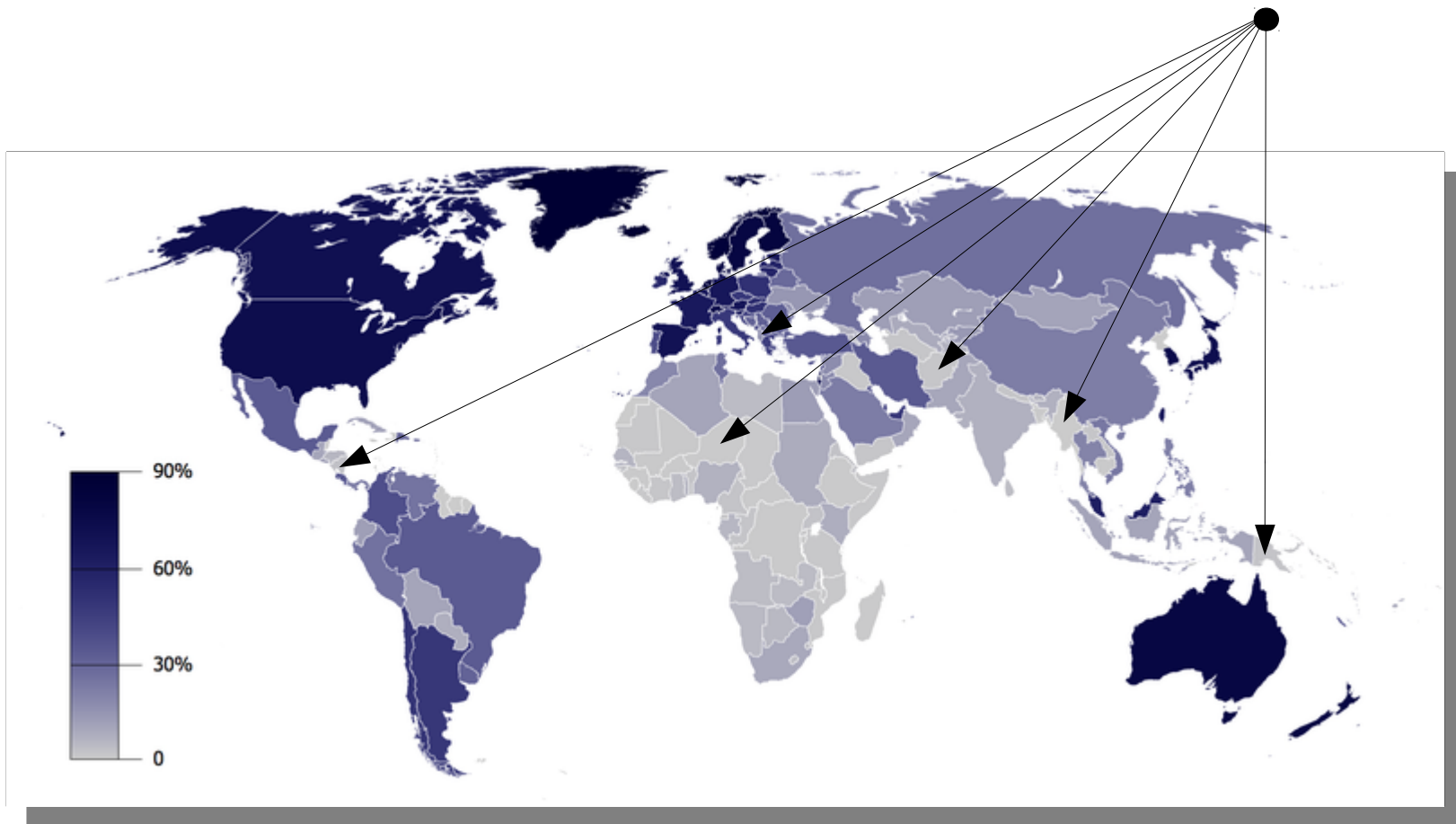
<http://www.internetworldstats.com/stats.htm>

# Problem:

## *Dissemination of Media in remote places*

- Books
  - Portable Document Format (PDF)
    - <http://en.wikipedia.org/wiki/Pdf>
  - Electronic Publication format (ePub)
    - <http://en.wikipedia.org/wiki/EPUB>
  - Hyper Text Markup Language (HTML)
    - <http://en.wikipedia.org/wiki/Html>
- All digital “media” are a collection of bits. So we can also disseminate
  - Music
  - Video
  - Images

# How do we get books to here?



# OPDS:

## *Open Publication and Distribution System*

- OPDS Specification
  - The Open Publication Distribution System (OPDS) Catalog is a syndication format for electronic publications based on Atom RFC4287 and HTTP RFC2616.
  - Catalogs enable the aggregation, distribution, discovery, and acquisition of electronic publications.
  - OPDS Catalogs use existing or emergent open standards and conventions, with a priority on simplicity.

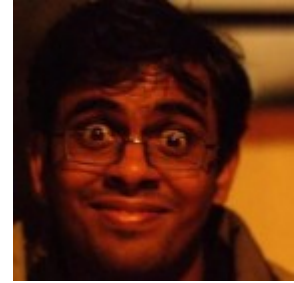


<http://code.google.com/p/openpub>

# Book Server

- Book Server = OPDS Server
- Repository
  - Add books, along with title, author, language, description, etc.
  - Serve
    - Atom-based OPDS feed (XML)
    - HTTP-based web pages that allow searching, listing, download, etc.

# Pathagar (पाठागार)



Written by Sayamindu Dasgupta  
<http://sayamindu.randomink.org>

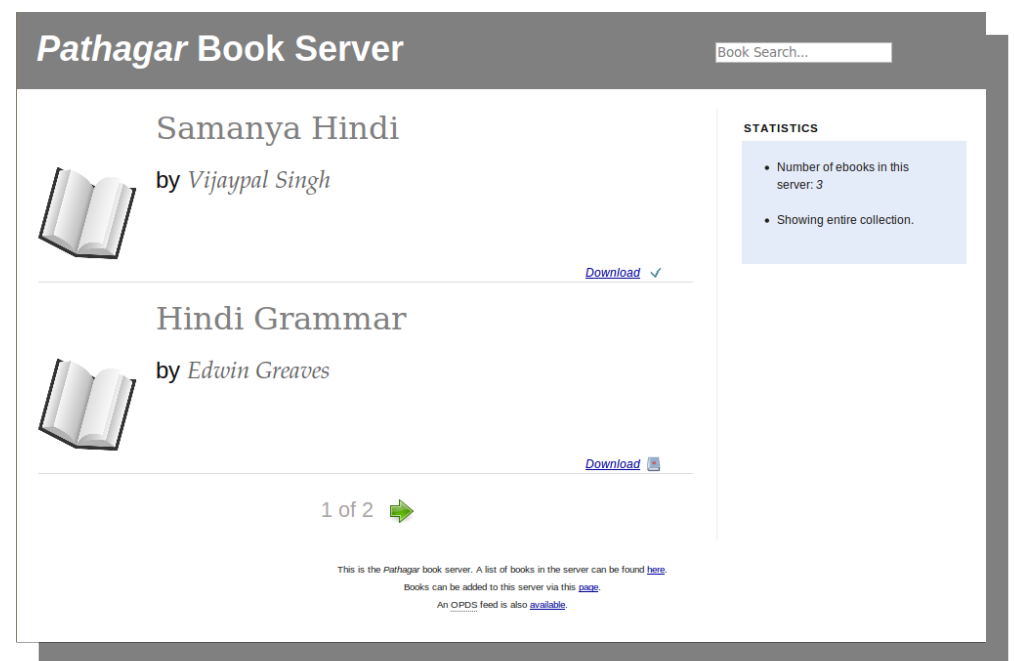
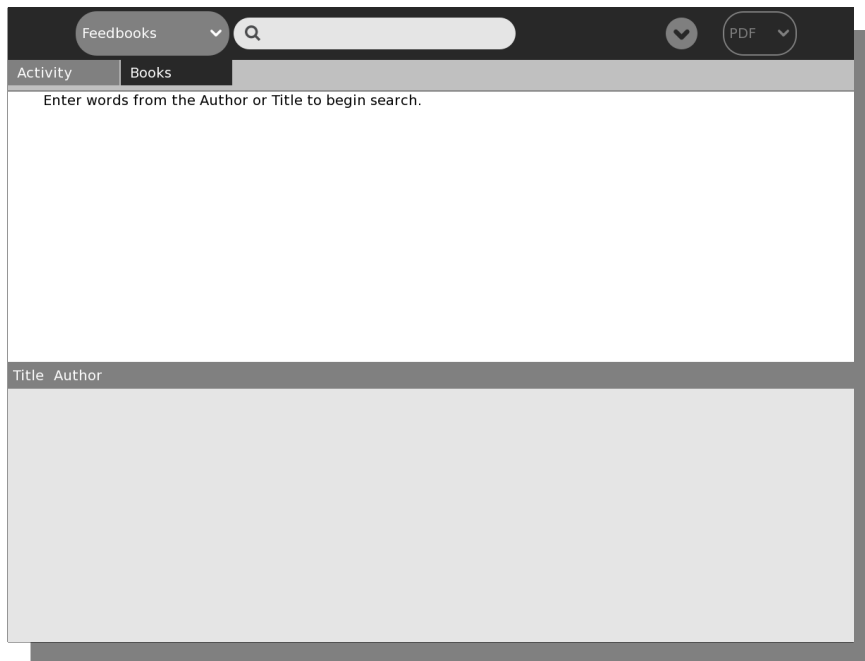
- Written in Python
- Requires python-django as a framework
- Creates a website for managing and accessing books
- Allows you to add books + metadata on books
- Catalog allows for listing
- Search feature
- OPDS Feed, which is Atom (XML) based.
- Books are served books via HTTP to:
  - Browsers
  - Get Books activity

Get it at <http://github.com/sayamindu/pathagar>



# Accessing Pathagar from Sugar

- Get Books Activity
  - <http://activities.sugarlabs.org/en-US/sugar/addon/4194>
- Browse Activity
  - <http://activities.sugarlabs.org/en-US/sugar/addon/4024>



# Bookserver vs Schoolserver

- Schoolserver
  - Course based taxonomy
  - Courses, teachers, students, assignments, assessment
  - Based on Moodle
- Bookserver
  - Library model
  - Books, catalog, searches, description.
  - Based on OPDS

# Catalog



### Samanya Hindi

by *Vijaypal Singh*

[Download](#) ✓



### Hindi Grammar

by *Edwin Greaves*

[Download](#) 📄

#### STATISTICS

- Number of ebooks in this server: 3
- Showing entire collection.

1 of 2 →

This is the Pathagar book server. A list of books in the server can be found [here](#).

Books can be added to this server via this [page](#).

An OPDS feed is also [available](#).

# Add a book

## Pathagar Book Server

### Add Book

File:

atom:title:

atom:author:

atom:summary:

dc:language:



Optional information ([click to expand](#))

# OPDS feed



This is a "feed" of frequently changing content on this site.

You can subscribe to this feed to receive updates when this content changes.

Subscribe to this feed using  Live Bookmarks 

Always use Live Bookmarks to subscribe to feeds.

Subscribe Now

## Pathagar Bookserver OPDS feed

---

OPDS catalog for the Pathagar book server

**Samanya Hindi**

07/16/2010 05:40 PM

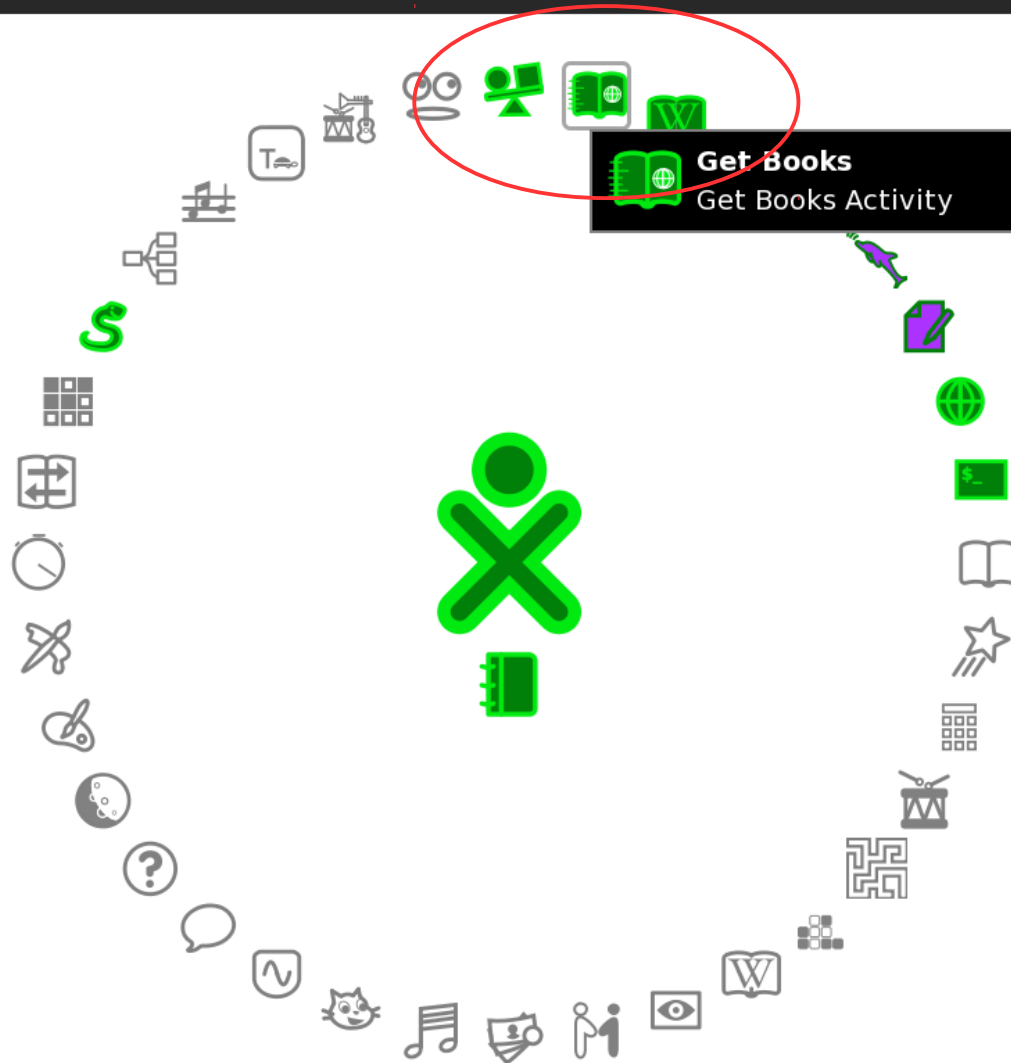
**Hindi Grammar**

07/16/2010 05:40 PM

# OPDS feed – source view

```
<?xml version="1.0" encoding="UTF-8"?>
  <feed xmlns:opds="http://opds-spec.org/" xmlns:dcterms="http://purl.org/dc/terms/"
xmlns="http://www.w3.org/2005/Atom" xmlns:opensearch="http://a9.com/-/spec/opensearch/1.1/"
xmlns:dc="http://purl.org/dc/elements/1.1/">
  <id>pathagar:full-catalog</id>
  <title>Pathagar Bookserver OPDS feed</title>
  <subtitle>OPDS catalog for the Pathagar book server</subtitle>
  <updated>2010-07-17T00:40:09Z</updated>
  <link href="?page=2" type="application/atom+xml" rel="next" title="Next results"></link>
  <entry>
    <id>bc84c99e-9166-11df-827d-001f3bafb0ab</id>
    <title>Samanya Hindi</title>
    <updated>2010-07-17T00:40:09Z</updated>
    <author>
      <name>Vijaypal Singh</name>
    </author>
    <link href="http://127.0.0.1:8000/books/samanyahindi005123mbp.pdf"
type="application/pdf" rel="http://opds-spec.org/acquisition"></link>
    <dcterms:language>hi</dcterms:language>
  </entry>
  <entry>
    <id>d5ddb018-9166-11df-827d-001f3bafb0ab</id>
    <title>Hindi Grammar</title>
    <updated>2010-07-17T00:40:09Z</updated>
    <author>
      <name>Edwin Greaves</name>
    </author>
    <link href="http://127.0.0.1:8000/books/hindigrammar00greauoft.epub"
type="application/epub+zip" rel="http://opds-spec.org/acquisition"></link>
    <dcterms:language>hi</dcterms:language>
  </entry>
</feed>
```

# Get Books Activity



# Pick a repository



Enter words from the Author or Title to begin search.

Title	Author
-------	--------



# Searching for Gulliver

Internet Archive  PDF

Activity Books

Performing lookup, please wait...

Title	Author
-------	--------

# Found Gulliver

Internet Archive  PDF

Activity Books

Title: GULLIVER'S TRAVELS.

Author: Jonathan Swift

Publisher: printed for Hector McLean

Language: English

Link: <http://www.archive.org/download/gulliverstravel01swifgoog/gulliverstravel01swifgoog.pdf>

Title	Author
order of issue of the Motte editions of 1726 and 1727, their relative accuracy and the source of the changes made in the Faulkner edition of 1735	Hubbard, Lucius L. (Lucius Lee), 1849-1933
Gulliver's travels, A tale of a tub, The battle of the books, etc.	Swift, Jonathan, 1667-1745
GULLIVER'S TRAVELS.	Jonathan Swift
Gulliver's travels into Lilliput and Brobdingnag	1878-1953, ill
Bausteine zur Psychoanalyse III Arbeiten aus den Jahren 1908 - 1933	Ferenczi, S&aacute;acute;ndor
Gulliver's travels. Edited with an introd. by Ernest Bernbaum	Bernbaum, Ernest, 1879-1958
The works of the Rev. Jonathan Swift	Nichols, John, 1745-1826

# Get Book

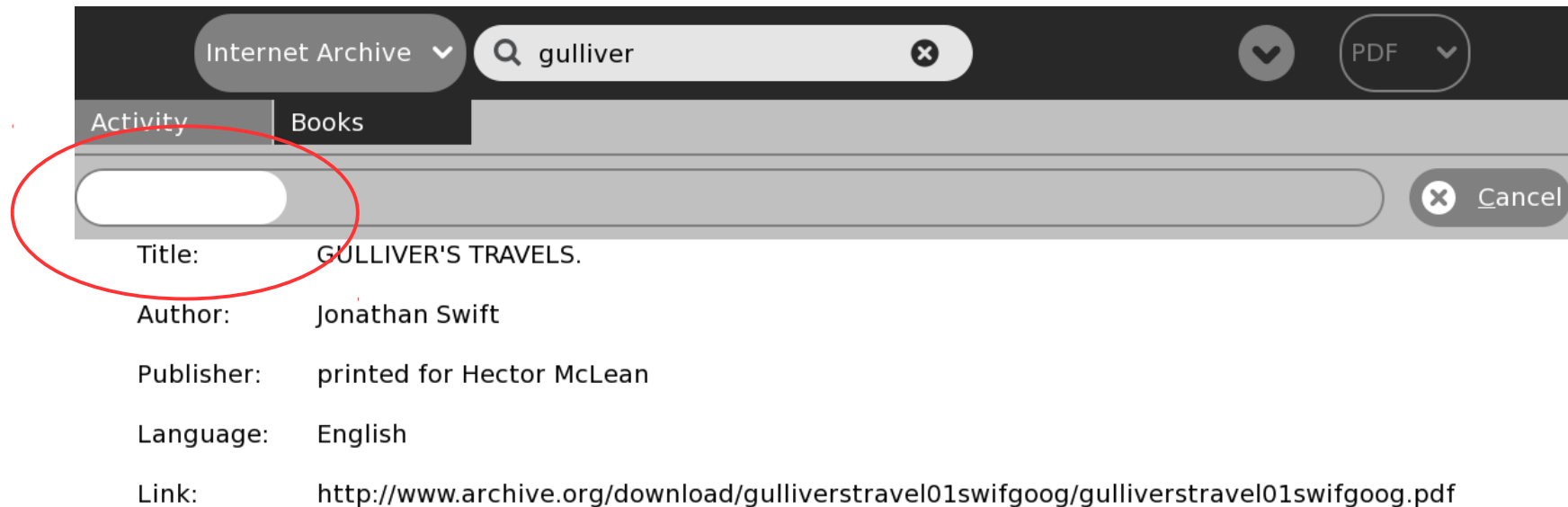
Internet Archive

Activity Books

Title: GULLIVER'S TRAVELS.  
Author: Jonathan Swift  
Publisher: printed for Hector McLean  
Language: English  
Link: <http://www.archive.org/download/gulliverstravel01swifgoog/gulliverstravel01swifgoog.epub>

Title	Author
order of issue of the Motte editions of 1726 and 1727, their relative accuracy and the source of the changes made in the Faulkner edition of 1735	Hubbard, Lucius L. (Lucius Lee), 1849-1933
Gulliver's travels, A tale of a tub, The battle of the books, etc.	Swift, Jonathan, 1667-1745
GULLIVER'S TRAVELS.	Jonathan Swift
Gulliver's travels into Lilliput and Brobdingnag	1878-1953, ill
Bausteine zur Psychoanalyse III Arbeiten aus den Jahren 1908 - 1933	Ferenczi, S&aacute;acute;ndor
Gulliver's travels. Edited with an introd. by Ernest Bernbaum	Bernbaum, Ernest, 1879-1958
The works of the Rev. Jonathan Swift	Nichols, John, 1745-1826

# Downloading Gulliver's Travels



The screenshot shows the Internet Archive search interface. At the top, there is a search bar with the text 'gulliver' and a search icon. To the right of the search bar are two dropdown menus: one with a downward arrow and another labeled 'PDF'. Below the search bar, there are two tabs: 'Activity' and 'Books'. The 'Books' tab is selected. Below the tabs is a search input field, which is highlighted with a red circle. To the right of the input field is a 'Cancel' button with a close icon. Below the input field, the search results are displayed in a list format. The first result is highlighted in gray and contains the following information:

**Title:** GULLIVER'S TRAVELS.  
**Author:** Jonathan Swift  
**Publisher:** printed for Hector McLean  
**Language:** English  
**Link:** <http://www.archive.org/download/gulliverstravel01swifgoog/gulliverstravel01swifgoog.pdf>

Title	Author
Order of issue of the motto editions of 1726 and 1727, their relative accuracy and the source of the changes made in the Faulkner edition of 1735	Hubbard, Lucius L. (Lucius Lee), 1849-1933
Gulliver's travels, A tale of a tub, The battle of the books, etc.	Swift, Jonathan, 1667-1745
<b>GULLIVER'S TRAVELS.</b>	<b>Jonathan Swift</b>
Gulliver's travels into Lilliput and Brobdingnag	1878-1953, ill
Bausteine zur Psychoanalyse III Arbeiten aus den Jahren 1908 - 1933	Ferenczi, S&aacute;acute;ndor
Gulliver's travels. Edited with an introd. by Ernest Bernbaum	Bernbaum, Ernest, 1879-1958

# Pathagar

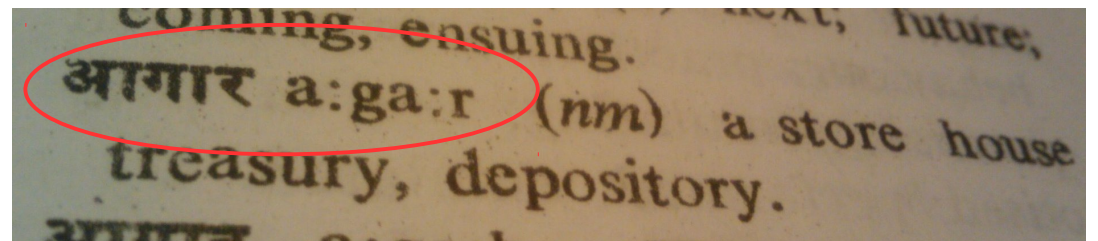
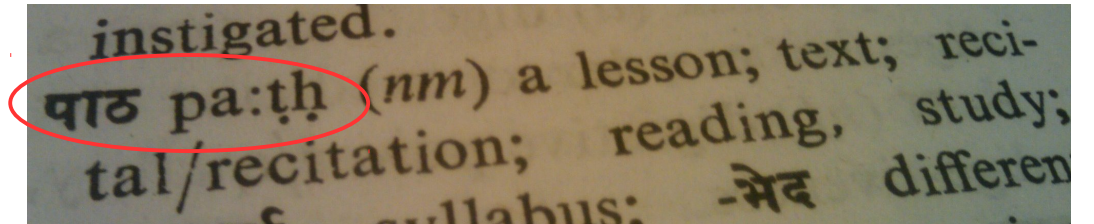
- Work in progress
- Fits deployment models where a curriculum isn't a central theme
- Library or media access center approach
- Easy to replicate and scale/federate

# Pathagar

Get it at <http://github.com/sayamindu/pathagar>

## OPDS Book Server

Pathagar : Path + Agar  
पाठागार : पाठ + आगार



# Slides made with the “free stuff”



Its your intellectual property. Keep it open.  
Vote with your fingers.  
Use open formats!

<http://www.openoffice.org/>