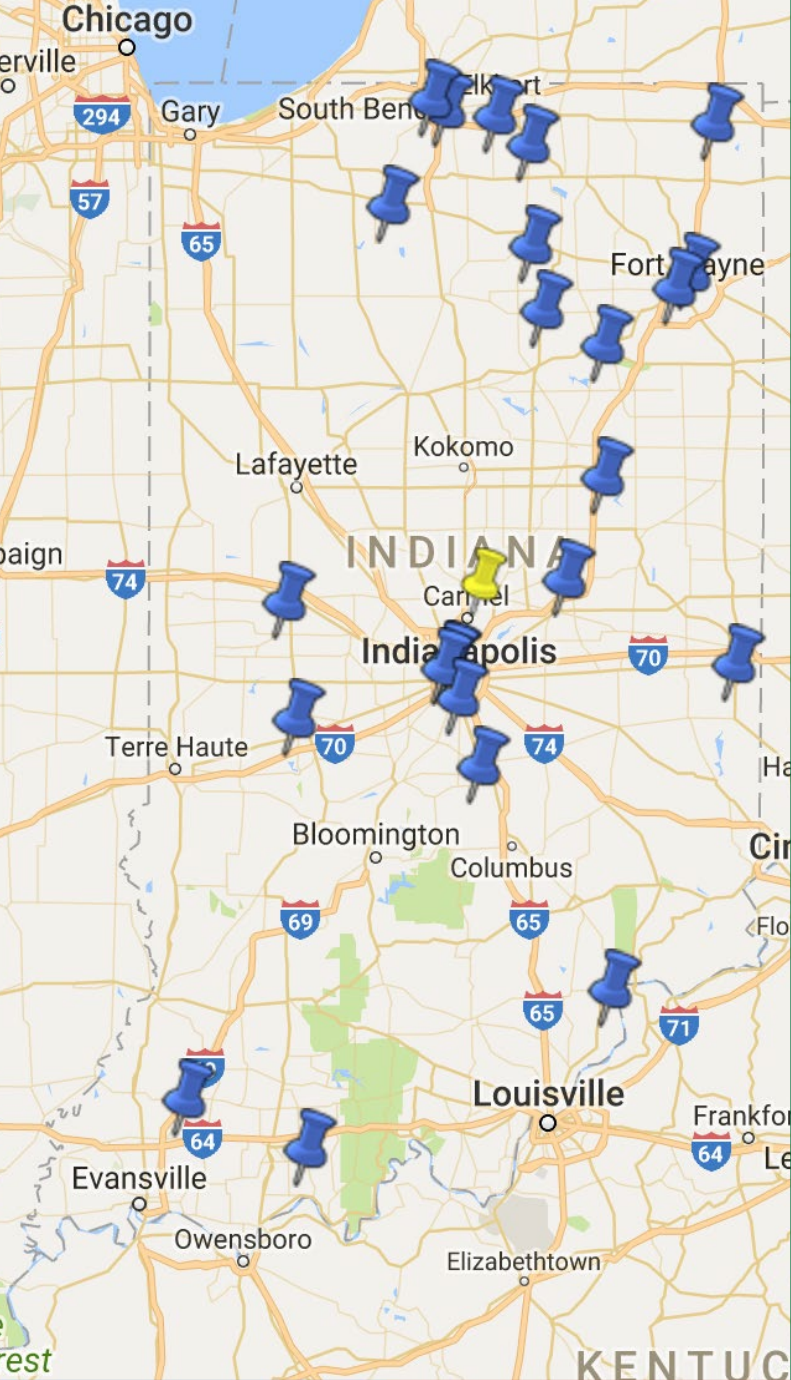


# Enhancing D2D Through Library Development

**Noah Brubaker - Associate Director - PALNI**

**Lauren Magnuson - PALNI Development Coordinator**

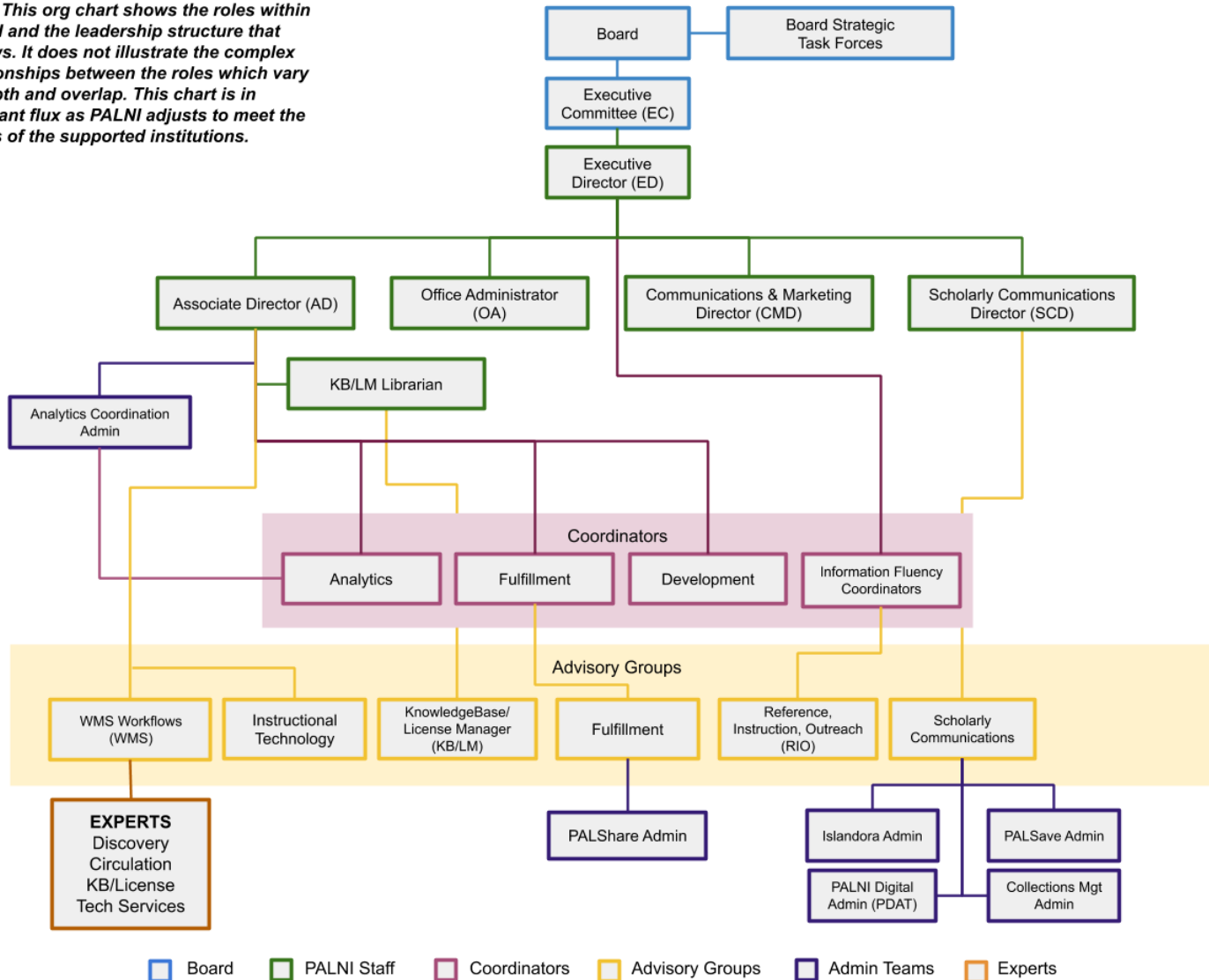


- AMBS
- Ancilla
- Anderson
- Bethel
- Butler
- CTS
- Concordia
- DePauw
- Earlham
- Franklin
- Goshen
- Grace
- Hanover
- Huntington
- Manchester
- Marian
- Oakland City
- Saint Francis
- Saint Mary's
- Saint Meinrad
- Taylor
- Trine
- U of Indy
- Wabash

**24 Libraries**

# PALNI Organization

*Note: This org chart shows the roles within PALNI and the leadership structure that follows. It does not illustrate the complex relationships between the roles which vary in depth and overlap. This chart is in constant flux as PALNI adjusts to meet the needs of the supported institutions.*



Revised October 2018

# PALNI Development Capacity

## *Coordinator and Developer*

### **Focus and Activities (Coordinator):**

- Coordinate PALNI-wide development efforts
- Provide development capacity and support for systems infrastructure
- Design and implement solutions using standards and product API's

### **Focus and Activities (Developer):**

- Perform software development work within scope of identified needs
- Conduct application maintenance
- Create technical documentation

# PALNI Development Capacity

## *Development Team*

### **Focus and Activities:**

- Manage coding development opportunities
- Establish and maintain Developer Pool (all PALNI invited to meetings if interested)
- Solicit input from across PALNI regarding current software limitations/gaps, workflow issues, system extensions
- Vet projects for scale, sustainability, impact, technical clarity and strategic importance
- Assist in project management
- Develop software (web, server based) in a sustainable manner to meet needs identified
- Liaison with interested individuals at supported organizations when appropriate to determine scope, needs, and support possibilities for development efforts

# OneButton

# OneButton Origin

## Personnel

Fulfillment Advisory Group

PALShare Admin Team

Lauren Magnuson  
PALNI Development Coordinator

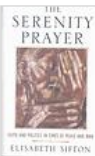


Figure 1. "Advisory Group" retrieved from <https://webixi.com/2017/12/28/nonprofit-advisory-group/>

# Previously...

## 1. The serenity prayer : faith and ...

1 OF 1 AVAILABLE



by Elisabeth. Sifton

Print book ©2003

[Other Editions & Formats](#)

Database: WorldCat

Held by: [AMBS Library](#)

AMBS Library General Books (North) 230.092 S57

Available



## 2. Instrument of thy peace 1 OF 1 AVAILABLE



by Alan. Paton

Print book [1968]

[Other Editions & Formats](#)

Database: WorldCat

Held by: [AMBS Library](#)

AMBS Library General Books (North) 242 P31

Available



## Availability / Holdings

### AMBS Library

1 available

Place hold



#### Holding Summary

Local Holdings Available.

### AMBS Library General Books (North)

1 of 1 available

Call Number

Availability

230.092 S57

Available

### PALNI libraries (4 Group Libraries)

Place hold



Anderson University

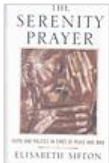
Check Availability Tell us what you think!



# Currently...

## 1. The serenity prayer : faith and ...

1 OF 1 AVAILABLE



by Elisabeth Sifton

Print book ©2003

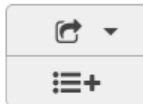
[Other Editions & Formats](#)

Database: WorldCat

Held by: **AMBS Library**

AMBS Library General Books (North) 230.092 S57

Available



## 2. Instrument of thy peace 1 OF 1 AVAILABLE



by Alan Paton

Print book [1968]

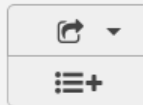
[Other Editions & Formats](#)

Database: WorldCat

Held by: **AMBS Library**

AMBS Library General Books (North) 242 P31

Available



## Availability / Holdings

### AMBS Library

1 available

Get It!

#### Holding Summary

Local Holdings Available.

#### AMBS Library General Books (North)

1 of 1 available

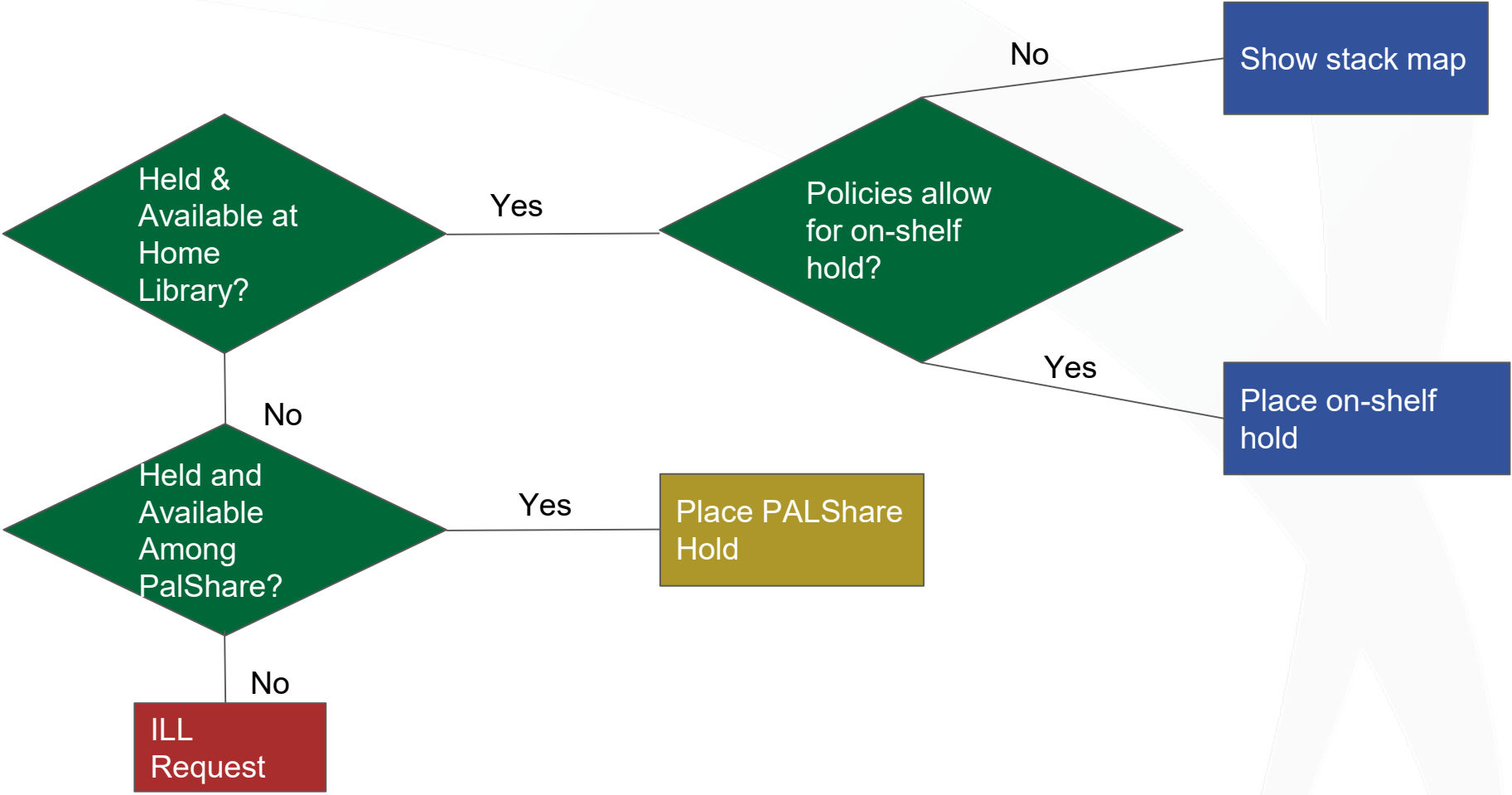
Text  
Call Number

Availability

230.092 S57

Available

# OneButton Process



# Holding XML

[Full sample response available here.](#)

```
<holding>
  <typeOfRecord>x</typeOfRecord>
  <encodingLevel>z</encodingLevel>
  <format>zu</format>
  <receiptAcqStatus>2</receiptAcqStatus>
  <generalRetention>8</generalRetention>
  <completeness>4</completeness>
  <dateOfReport>141205</dateOfReport>
  <nucCode>ITU</nucCode>
  <localLocation>ITUZ</localLocation>
  <shelvingLocation>Main
Collection</shelvingLocation>
  <callNumber>500 B8481s</callNumber>
  <copyNumber>1</copyNumber>
  <volumes>
  <volume/>
</volumes>
```

```
<circulations>
  <circulation>
    <availableNow value="1"/>
  </circulation>
</circulations>
<itemId>39227020805457</itemId>
  <renewable value="0"/>
  <onHold value="0"/>
</holding>
```

## The Code

//Else, if a chosen PALShare partner is in the array, redirect to PalShare hold:

```
elseif (in_array(($partnerA || $partnerB || $partnerC ||
$partnerD), $institutions)) {

Header( 'Location: https://' . $institutionURL
.'on.worldcat.org/search?sortKey=LIBRARY_PLUS_RELEVANCE&databaseL
ist=&queryString=' . $bookTitle .
'&changedFacet=author&scope=&format=all&database=all#/oclc/' .
$oclcNum . '/circ/hold/PLACE_HOLD' );

}
```

# Software Utilized

- **GitHub:** <https://github.com/PALNI/onebutton>
- PHP 5.6+
- [Composer for PHP](#)
- [OCLC Availability API](#) for WorldShare Management System (WMS) (could use another library system API that returns real-time availability of physical items) ([sample API response](#))
- [OCLC PHP Auth Library](#) (only if using OCLC WMS APIs)
- [Bootstrap](#)
  - Optional but is used to display the 'availability' menu if an item is held and available

# Gochiso

# Concept

**Gochiso** rushing around to provide full-text at point-of-need

We think ILL forms should be smart enough to do the searching users don't know how to or don't want to do.

**Gochiso** helps with that.

Installation and setup  
Configuration options  
Limitations  
Problems?  
What's with the name?  
Thanks!



Look what I found at the library! Is this what you need?

Nanometre-scale thermometry in a living cell

Kucsko, G.; Maurer, P. C.; Yao, N. Y.; Kubo, M.; Noh, H. J.; Lo, P. K.; Park, H.; Lukin, M. D.

*Nature*, v500 n7460 (2013)

- Full text from MasterFILE Premier
- Full text from MAS Ultra: School Edition
- Full text from Science Reference Center
- Full text from Academic Search Premier
- Full text from Science in Context
- Full text from Nursing and Allied Health Collection
- Full text online
- Full text online

[View in the library catalog](#)

# Gochiso

## Search Tools

Group related editions

## Library

- Libraries Worldwide
- PALNI Partner Libraries
- PALNI

Nanometre-scale thermomet... >> 45 results in Libraries Worldwide

1.



### [Nanometre-scale thermometry in a living cell](#)

by [G Kucsko](#), [P C Maurer](#), [N Y Yao](#), [M Kubo](#), [H J Noh](#), [P K Lo](#), [H Park](#), [M D Lukin](#)


 Article 2013 |  Peer-reviewed

**Journal:** Nature v500 n7460 (20130731): 54-58



# Gochiso

- ILL Form with Gochiso results
- Gochiso can be intermediate screen
- Gochiso currently displays electronic holdings, could be modified to also display print holdings



Look what I found at the library! Is this what you need?

Nanometre-scale thermometry in a living cell  
Kucsko, G.; Maurer, P. C.; Yao, N. Y.; Kubo, M.; Noh, H. J.; Lo, P. K.; Park, H.; Lukin, M. D.  
*Nature*, v500 n7460 (2013)

- Full text from Science in Context
- Full text from Science Reference Center
- Full text from MAS Ultra: School Edition
- Full text from Academic Search Premier
- Full text from Nursing and Allied Health Collection
- Full text online
- Full text online

[View in the library catalog](#)

First name (required)

Last name (required)

Your E-mail (required)

Your Phone Number

Hanover Unit Number

I am a  Student  Faculty/Staff

I need this within: 4 weeks ▾

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Send

Articles will be delivered to your e-mail address.

Title of periodical Nature

Title of book

ISSN 0028-0836

ISBN

Author Kucsko

G

Article Title Nanometre-scale thermometry in a living cell

Volume 500

Issue 7460

Pages 54

Date 2013

OCLC number 5140613509

# Software Utilized

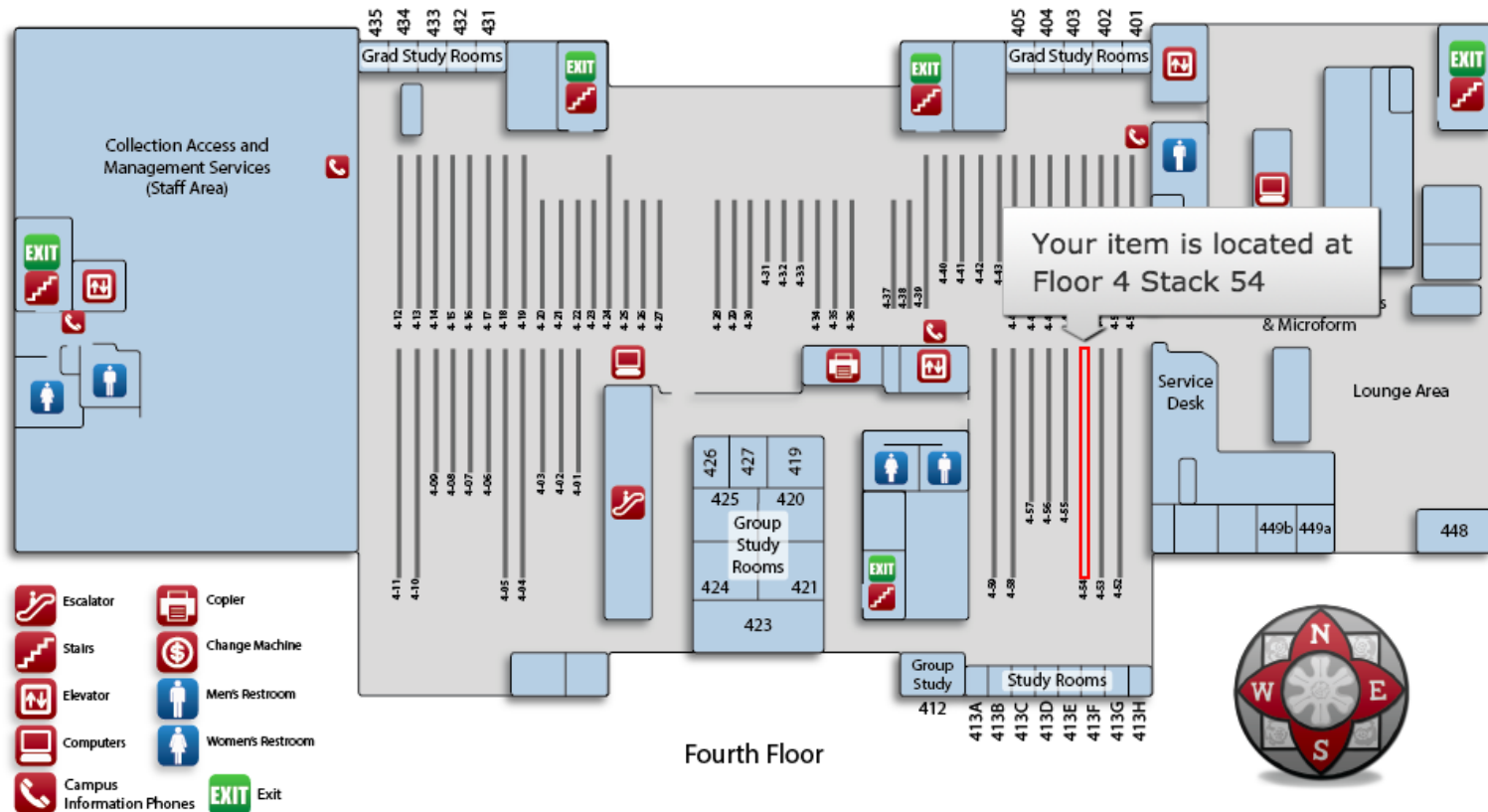
- **GitHub:** <https://github.com/apcshields/gochiso.git>
- **Gochiso Information Page:**  
<https://apcshields.github.io/gochiso/>
- WorldCat Knowledge Base API
- Unpaywall API
- Open Access Button API
- Bootstrap
- Guzzle

# Shelf Map

# Shelf Map

## Library Location Map

Your item TT922 .F7 1998 is shelved on Floor 4, Stack 54



# Shelf Map

- Leverages OneButton
- When an item is held and available, call number (from availability API) is searched in delimited table

For example, for call number TT922.F7 1998, the call number (normalized) matches the range indicated in this table entry:

```
f4|TL 671.2 .A3735 1988|TX 501 .R47|454|Floor 4, Stack 54
```

# Shelf Map

The delimited table must have an entry for every shelf unit (if the shelf map is to show that level of detail).

When match is found in table, user is shown a map image with jQuery image hotspots mapped to highlight specific stack locations

Shelf maps are in the process of being deployed in production at PALNI. The code is based on a project developed at California State University, Northridge to work with the III Innovative System.

# Software Utilized

- PHP 5.6+
- jQuery

# PeaRL










# Audiences / Use Cases

- Audiences
  - Librarians
  - Course Designers
  - Faculty
- Use Cases
  - Simplification of discovering and adding materials to courses (no proxy issues / cut-paste)
  - No toggling between interfaces all within LMS
  - Consistent course experience
  - Promote use of library content

# PeaRL

View Progress [+ Module](#)

-  Account
-  Dashboard
-  Courses
-  Calendar
-  Inbox
-  Commons
-  Help

- Home
- Announcements
- Assignments
- Discussions
- Grades
- People
- Pages
- Files
- Syllabus
- Outcomes
- Quizzes

**Modules**

▼ Tsugi Test ✓ + ⋮





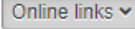



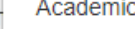












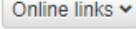


<span>⋮</span> <span>🔗</span> Tsugi Builder <span>✓</span> <span>⋮</span>
<span>⋮</span> <span>🔗</span> Reading List <span>✓</span> <span>⋮</span>
<span>⋮</span> <span>🔗</span> Library Resources <span>✓</span> <span>⋮</span>
<span>⋮</span> <span>🔗</span> Hodgepodge Test List <span>✓</span> <span>⋮</span>
<span>⋮</span> <span>🔗</span> Test <span>✓</span> <span>⋮</span>

# PeaRL

## Reading List

This is a sample reading list.

 Edit description

-  Free-electron Generators of coherent radiation : 26 June- 1 July 1983, Rosario Resort, Orcas Island, Wash. (1984) [Library catalog]  Edit description 
-  Native American women's responses to Christianity (1996) [Library catalog]  Online links  Add description 
-  An Amish patchwork : Indiana's Old Orders in the modern world (2005) by Tr  Online links  Add description 
-  Mennonite by William S. Banks [Library catalog]  Add description 
-  Biology of hematopoiesis and stem cell gene transfer : Proceedings of the 9th Conference on Hemoglobin Switching held at Orcas Island, Washington, USA, 10-14 June 1994 (1995) [Library catalog]  Add description 
-  Mosby's medical, nursing, & allied health dictionary (2002) [Library catalog]  Add description 
-  Lippincott Nursing Procedures (2015) by Lippincott [Library catalog]  Online links  Add description 

 Add another resource

# PeaRL

Reading L

Select a resource:



URL

**Name**

**URL**

**Description**

Preview

Add

Close

1. Cast
2. Fen
3. Siste
4. Tin c
5. Airst

+ Add another re

- Add
- descrip
- line link
- descrip
- descrip
- descrip
- descrip

# PeaRL

Reading

Select a resource: ✕

Library Resource ▾

test

Search

Filter results

8254378 total results in 330176 total pages.

1.  Test. (200u/9999) [Library catalog] Online links ▾ ✓
2.  The test (2013) by Peggy Kern [Library catalog] +
3.  The Test. (1756/1757) [Library catalog] +
4.  Test. [Library catalog] +
5.  The test (1993) by Stacie Johnson [Library catalog] +

# PeaRL

Reading L

Select a resource: ✕

Library Resource ▾

test Search

Filter results

Filters

Format	Author	Language
<input type="checkbox"/> Article, Chapter (6224554)	<input type="checkbox"/> United States (20295)	<input type="checkbox"/> English (5258245)
<input type="checkbox"/> Article (4535000)	<input type="checkbox"/> Polska (5508)	<input type="checkbox"/> Undetermined (254142)
<input type="checkbox"/> Chapter (1087841)	<input type="checkbox"/> National Learning Corporation (5015)	<input type="checkbox"/> Korean (126270)
<input type="checkbox"/> Downloadable Article (601713)	<input type="checkbox"/> British Standards Institution (3389)	<input type="checkbox"/> German (110028)
<input type="checkbox"/> Book (1025111)	<input type="checkbox"/> Oak Ridge National Laboratory (3134)	<input type="checkbox"/> Japanese (81674)
<input type="checkbox"/> Print Book (461369)	<input type="checkbox"/> Lawrence Livermore National Laboratory (2356)	<input type="checkbox"/> French (80521)
<input type="checkbox"/> Thesis, Dissertation (250344)	<input type="checkbox"/> American Society for Testing and Materials (2317)	<input type="checkbox"/> Spanish (70276)
<input type="checkbox"/> Ebook (239549)		<input type="checkbox"/> Chinese (64807)
<input type="checkbox"/> Microform (73819)		<input type="checkbox"/> Russian (36866)

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Add another r

descrip

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# PeaRL

## Reading List

This is a sample reading list.

[Edit description](#)

1.  [Free-electron Generators of coherent radiation : 26 June- 1 July 1983, Rosario Resort, Orcas Island, Wash. \(1984\) \[Library catalog\]](#)

I have no idea what free-electron generators are, but you should read this.

[Edit description](#)

2.  [Native American women's responses to Christianity \(1996\) \[Library catalog\]](#)

[Online links](#)

[JSTOR Arts & Sciences II Collection](#)

[Academic Search Premier](#)


[Add description](#)

3.  [An Amish patchwork : Indiana's Old Orders in the modern world \(2005\) by Tr](#)

[Add description](#)

4.  [Mennonite by William S. Banks \[Library catalog\]](#)


[Add description](#)

5.  [Biology of hematopoiesis and stem cell gene transfer : Proceedings of the 9th Conference on Hemoglobin Switching held at Orcas Island, Washington, USA, 10-14 June 1994 \(1995\) \[Library catalog\]](#)

[Add description](#)

6.  [Mosby's medical, nursing, & allied health dictionary \(2002\) \[Library catalog\]](#)

[Add description](#)

7.  [Lippincott Nursing Procedures \(2015\) by Lippincott \[Library catalog\]](#)

[Online links](#)

[Add description](#)

[+ Add another resource](#)

# Future Development (PALNI)



- Learning Analytics
- Collection Management
- Additional Content Repositories



# Future Development (Others)



- LTI platform enables functionality across multiple learning management systems
- API connectors to other library discovery platforms to enable search

# Software Utilized

- Worldcat Discovery API
- PHP
- LTI (Learning Tools Interoperability)
- [Tsugi](#) Open framework for building LTI based tools
- Bootstrap

# Collaboration Opportunities!

- Coders, those interested in coding projects
- Interface design / graphics
- New feature ideas or use cases

# Thank you!

 [nbrubaker@palni.edu](mailto:nbrubaker@palni.edu)

 317-721-8198

---

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 [@PALNIUpdates](https://twitter.com/PALNIUpdates)