

Koha: The Next Level

Amzari Abu Bakar
Head

Research Interest Group
Open Source in Library

Faculty of Information Management
Universiti Teknologi MARA

5th International Conference On Libraries
25th – 26th August 2015
Vistana Hotel, Penang



Abstract

- ▶ Koha is an **Open Source** Integrated Library Systems was developed in **1999**.
- ▶ Koha has been adopted by libraries in **Malaysia** starting in **2008**.
- ▶ After **7 years**, Koha has been chosen by significant numbers of libraries in Malaysia including large academic library recently.
- ▶ The trend gives indication of library **acceptance** in Open Source Software as compared to other Open Source ILS.
- ▶ This paper intends to discuss post implementation of Koha Open Source ILS in perspectives; technical perspective, new suggested features and managerial perspective related to Koha and open source software.

Introduction

- ▶ Koha is the first **fully web based** ILS.
- ▶ Incorporated with *on the fly* cataloging features using z39.50 protocol.
- ▶ **Web 2.0** features for OPAC.
- ▶ Earliest adoption in Malaysia is in 2008.
- ▶ In 2010, 8 academic libraries are known to use Koha.
- ▶ To date, more than **19 academic libraries** are using Koha.

Post Installation

- ▶ For libraries that are using Koha, they can:
 - Send **automated email notification** for free. – Using Postfix and gmail.
 - Open **z39.50 Public Server** – Other people can search library catalog via z39.50
 - Provide **Self Check services** – at minimum cost. **SIP2** already available in Koha.
 - Share Online Video, Audio and Multimedia Content – via **HTML5 media** features.

Post Installation

- ▶ Other advanced extended features
 - Single Sign On (SSO) with existing LMS, SMS using LDAP
 - Provide **Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH)** services.
 - Provide **ILS Discovery Interface (ILS-DI)**.

Example

OAI PMH

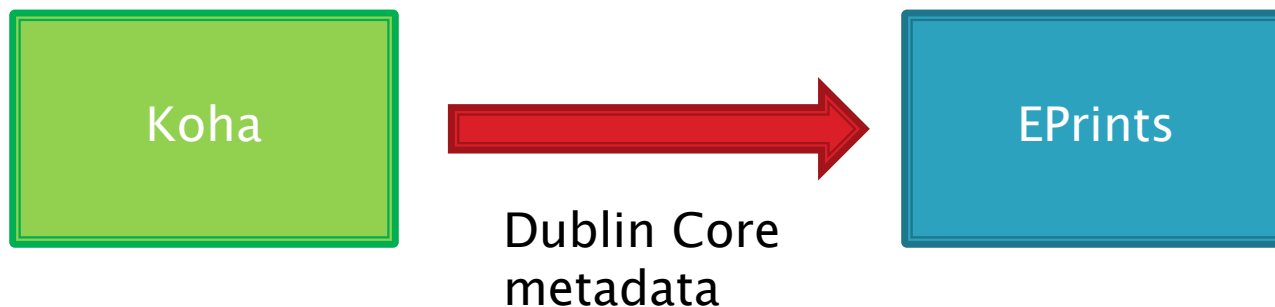
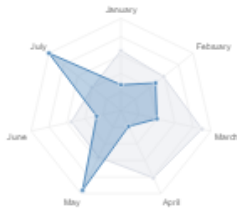


Figure 1 – Example of OAI-PMH protocol can be used by Repository Softwares such as Eprints to harvest metadata records from Koha.

Future Expansion

▶ Dashboard

Six chart types



Visualize your data in 6 different ways. Each of them animated, with a load of customisation options and interactivity extensions.

HTML5 based



Chart.js uses the HTML5 canvas element. It's supported in all modern browsers, and polyfills support for IE7/8.

Simple and flexible

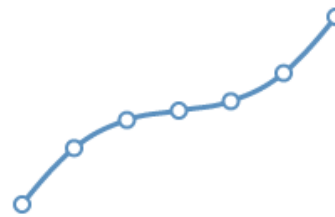


Chart.js is dependency free and super lightweight. All six core chart types are only 11.01kb when minified, concatenated and served gzipped.

Figure 2 – Dynamic chart can be produced in real time from ILS databases using ChartJS

Responsive new



Chart.js will resize your chart if the browser changes size, along with providing the perfect scale granularity for that size

Modular new



Chart.js is modular, and each of the chart types have been split up, so you can load only which chart types you need for your project

Interactive new



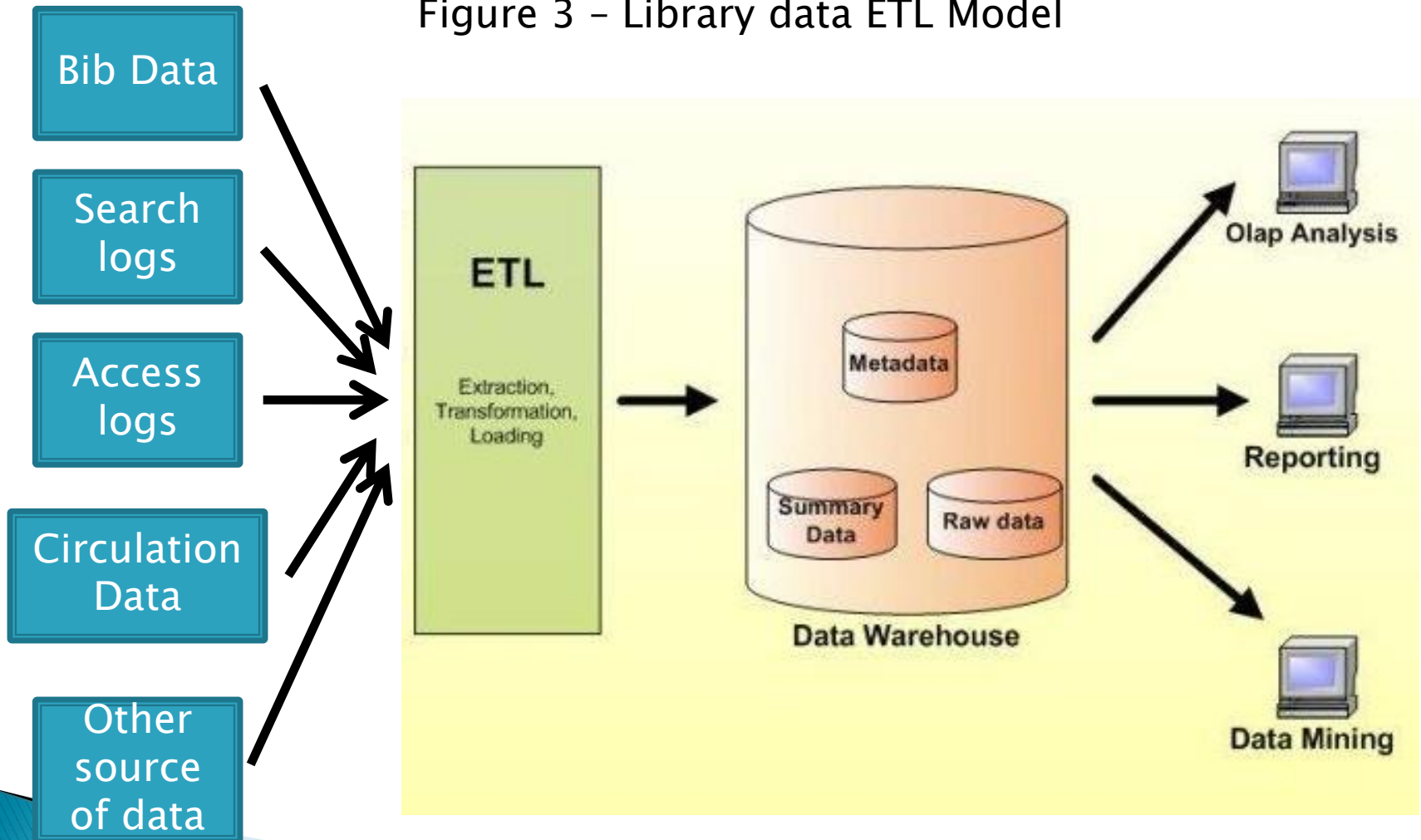
Chart.js provides default simple support for canvas tooltips on hover/touch, but you can extend these interactions to trigger events in your application

Future Expansion

- ▶ Big Data – Make sense from library data
- ▶ Source of data from Koha
 - Search logs (Koha database and Apache web server logs)
 - Bibliographic data (Koha database)
 - Circulation data (Koha database)
 - Access logs (Apache web server log)
- ▶ Library can start with Extraction Transformation and Load (ETL), and Data Warehousing

Future Expansion

Figure 3 - Library data ETL Model



Managing the software

- ▶ Knowledge Transfer Program
 - Emphasize on building internal expertise
- ▶ Participation in Open Source Project Community
 - Activities – Funds, organizing events, training, documentation, translation, testing, reviewing and etc.
- ▶ Establishment of Open Source Society in Libraries
 - Coordinate activities, cooperate with other Open Source Society (e.g: OSDC.my, FOSS.org.my, MOSC and etc).

Conclusion

- ▶ Library need to harvest benefits from Open technology.
- ▶ Open Source development program → sustainability and continuity.
- ▶ Libraries can acquire additional values, more competitive → heighten the librarianship profession to next level.

Q&A

- ▶ Q&A
- ▶ Thank you for listening.