DLF Aquifer

Bringing collections to light through the Digital Library Federation

Realizing Benefits for Scholars and the Digital Library Community through DLF Aquifer

Katherine Kott, Susan Harum, Chick Markley

DLF Fall Forum, November 2007

Focus on *American Social History Online*

- Mellon funded project within DLF Aquifer initiative
- Outcome to make digital collections in American culture and life easier for scholars to find and use
  - Aggregate content to enable multiple collections to be used as one
  - Deliver content through multiple channels

Who's who

- *American Social History Online* relies on Aquifer working groups, collaborative infrastructure in place
- Core team focused on development and assessment, coordination with working groups
  - Susan Harum (UIUC) business analyst/assessment expert
  - Kat Hagedorn (Michigan) data analyst
  - Chick Markley (Freewheeling contractor) systems architect/developer
  - Tom Habing (UIUC) developer

Overview of accomplishments

- Architecture
- Portal with Zotero—initial SEO analysis
- MODS
  - Guidelines
  - Levels of adoption
  - MARC to MODS transform
- Harvesting workflow
- Agile development process

What's next

- Add collections—attend open discussion session to find out more
  - Workflow, including asset actions
  - Support for static repositories
- Develop "local implementations"
  - Sakai @ Indiana
  - Federated search @ UIUC
- More SEO
- Assessment planning
- Sustainability planning

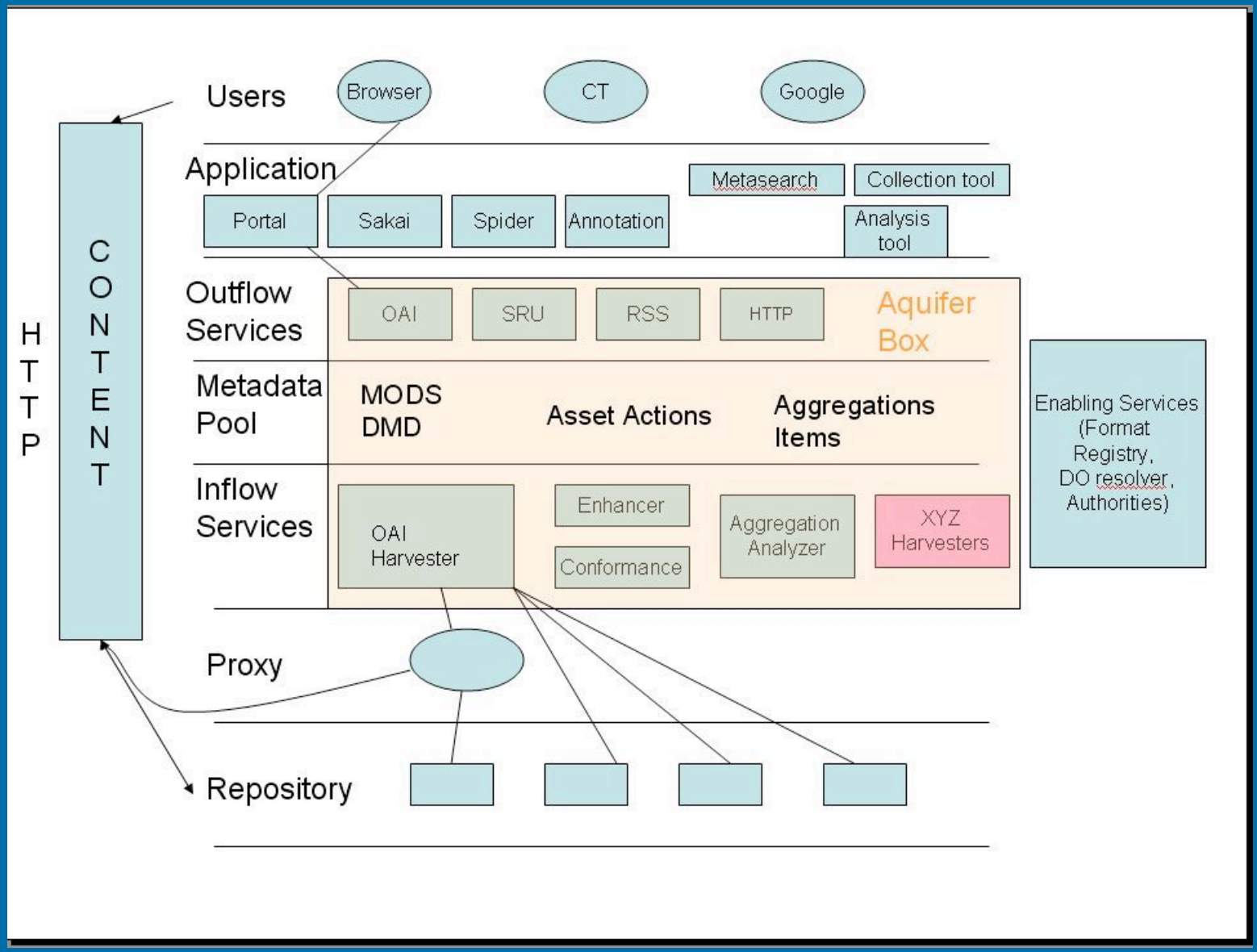
Beyond *American Social History Online*

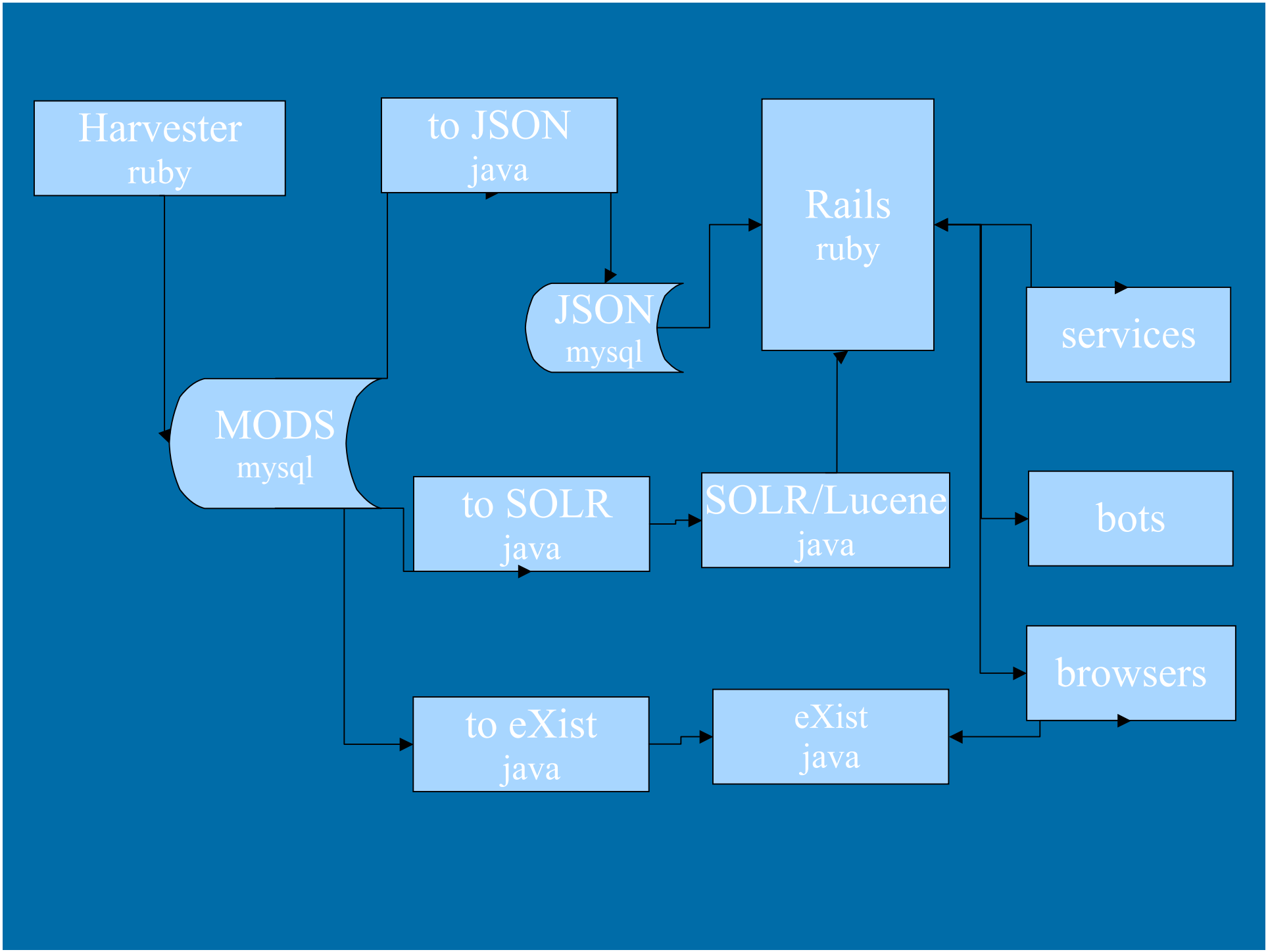
- More metadata remediation and enhancement
- More tools integration
  - Workflow
  - End user

Chick Markley

- Systems Architect and Developer
- Technorati
- Personal Bee
- Innovative Interfaces (23 years)

Inherited

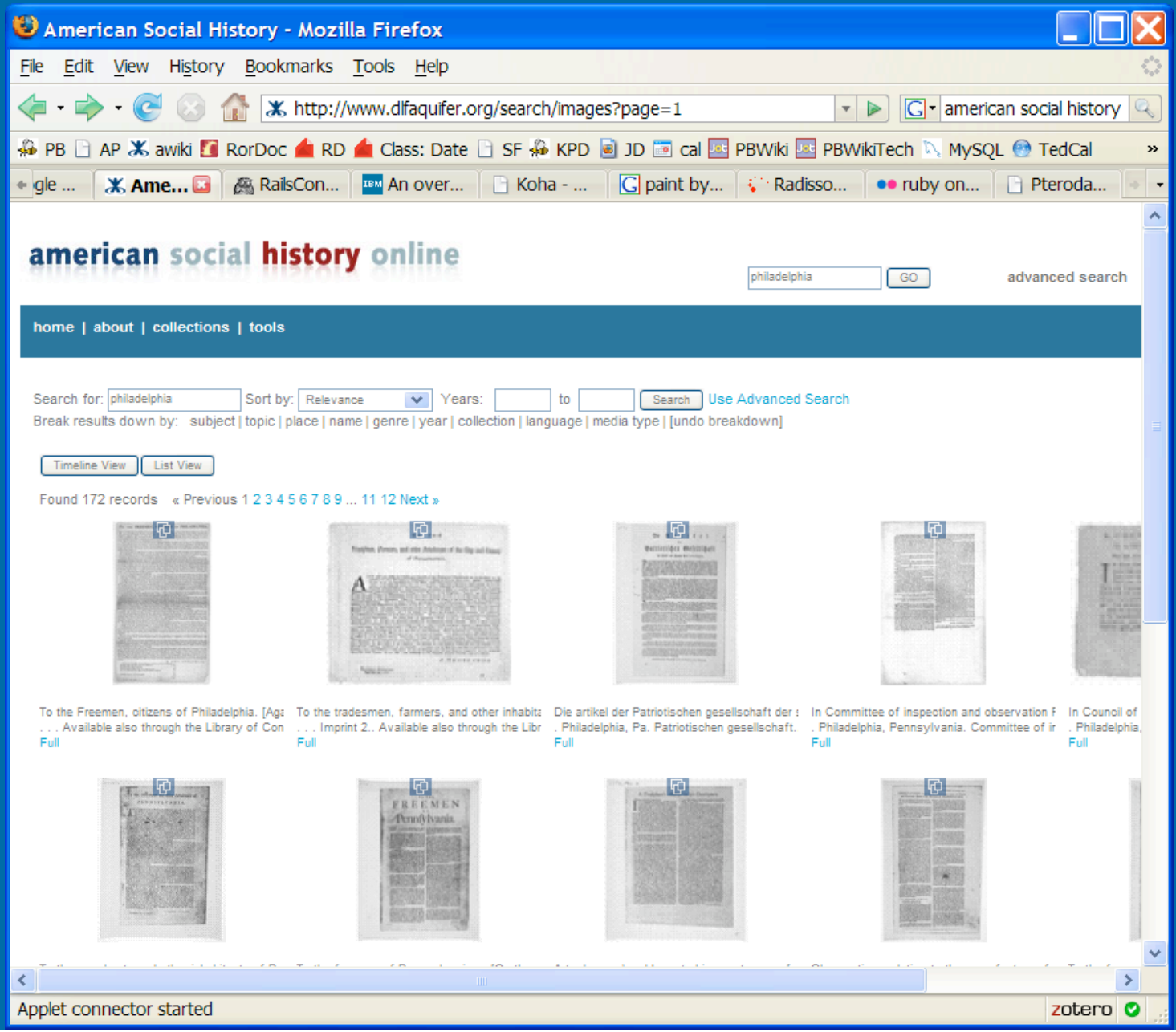

Users
Browser
CT
Google
Application
Portal
Sakai
Spider
Annotation
Metasearch
Collection tool
Analysis tool
HTTP
CONTENT
Outflow Services
OAI
SRU
RSS
HTTP
Aquifer Box
Metadata Pool
MODS DMD
Asset Actions
Aggregations Items
Inflow Services
OAI Harvester
Enhancer
Conformance
Aggregation Analyzer
XYZ Harvesters
Enabling Services (Format Registry, DO resolver, Authorities)
Proxy
Repository

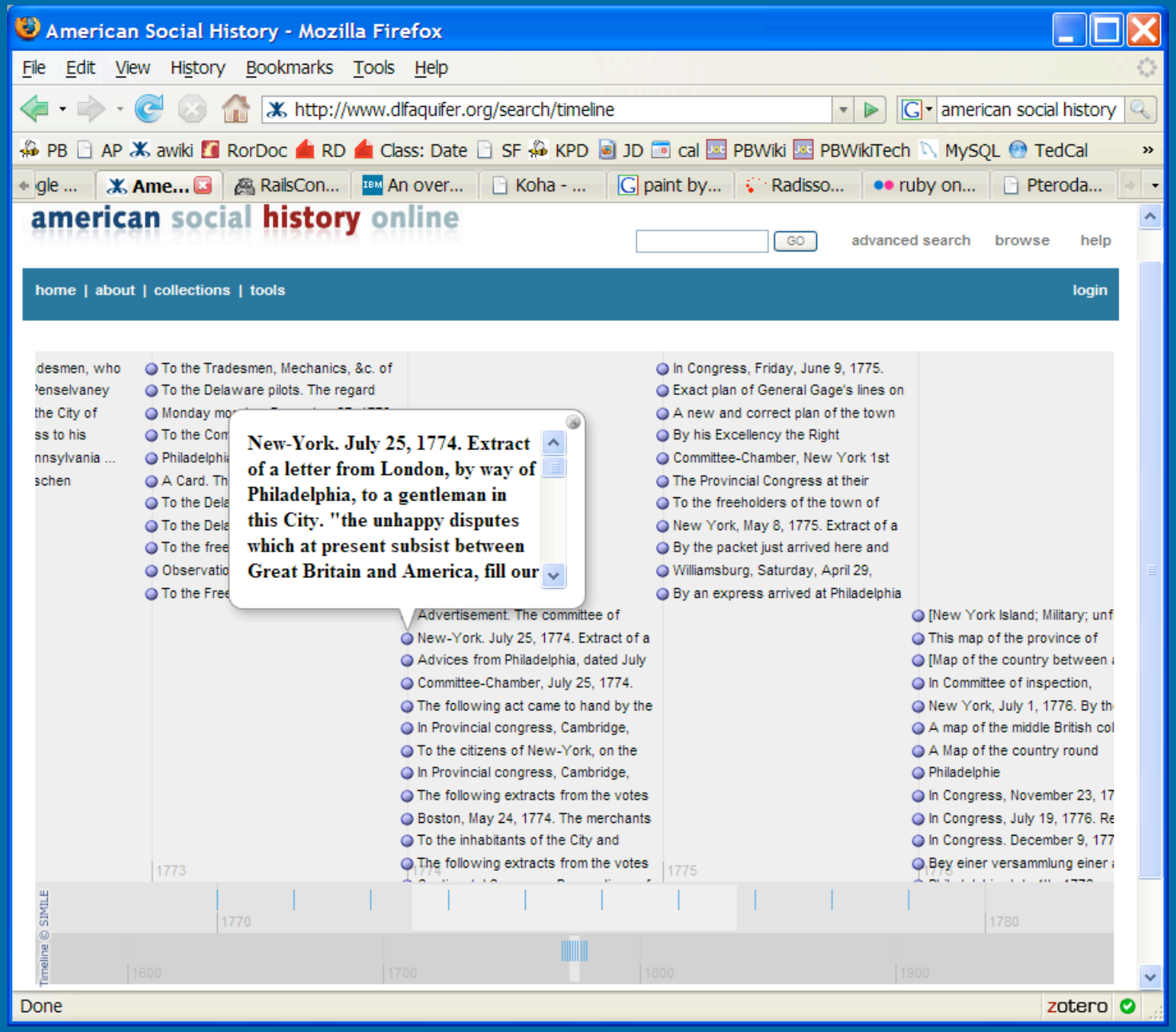

Harvester
ruby
to JSON
java
Rails
ruby
JSON
mysql
services
MODS
mysql
to SOLR
java
SOLR/Lucene
java
bots
browsers
to eXist
java
eXist
java

Asset Actions

- Collectus Tool
- Service call
- Ask Tom

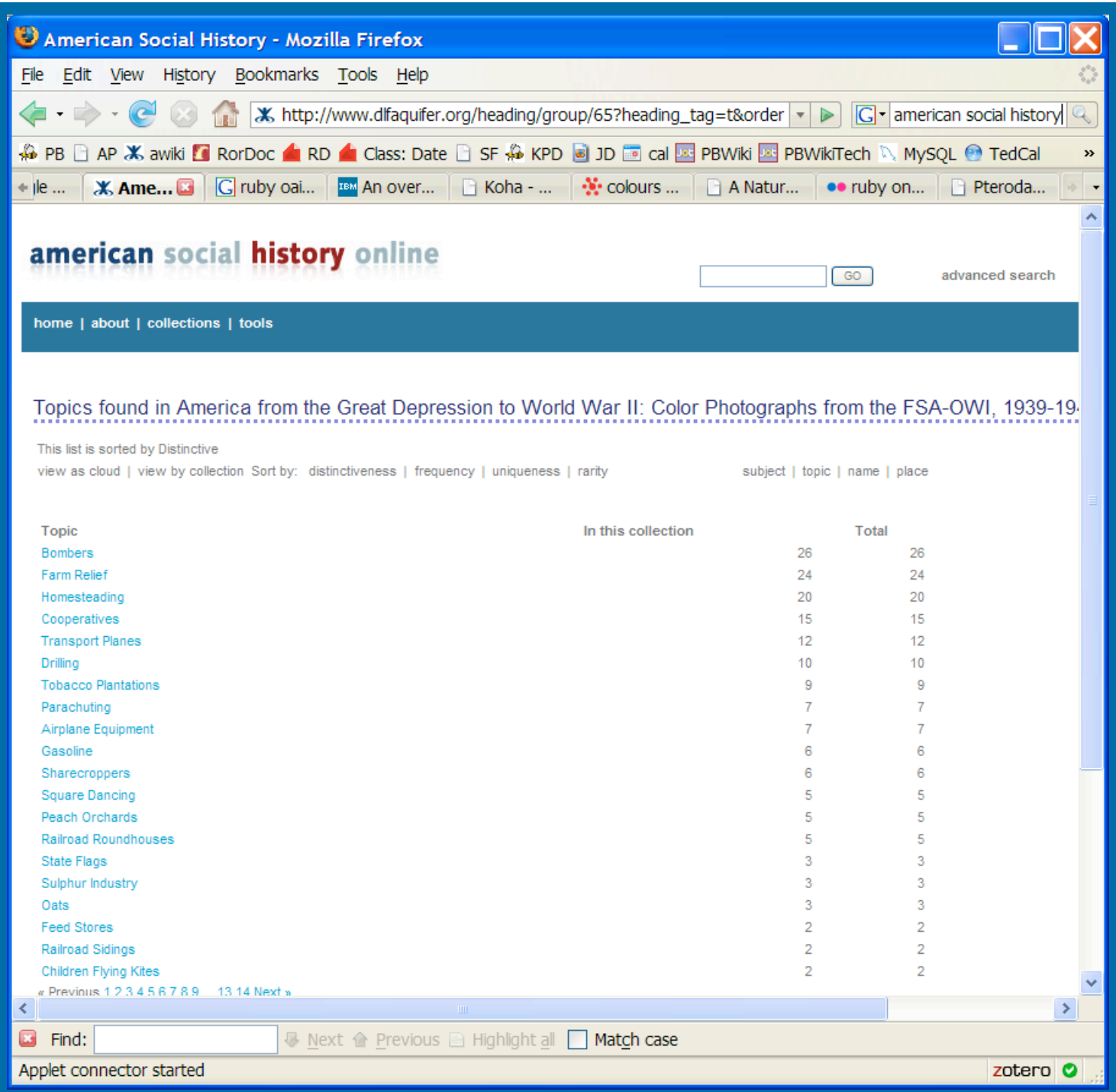
Simile Timeline

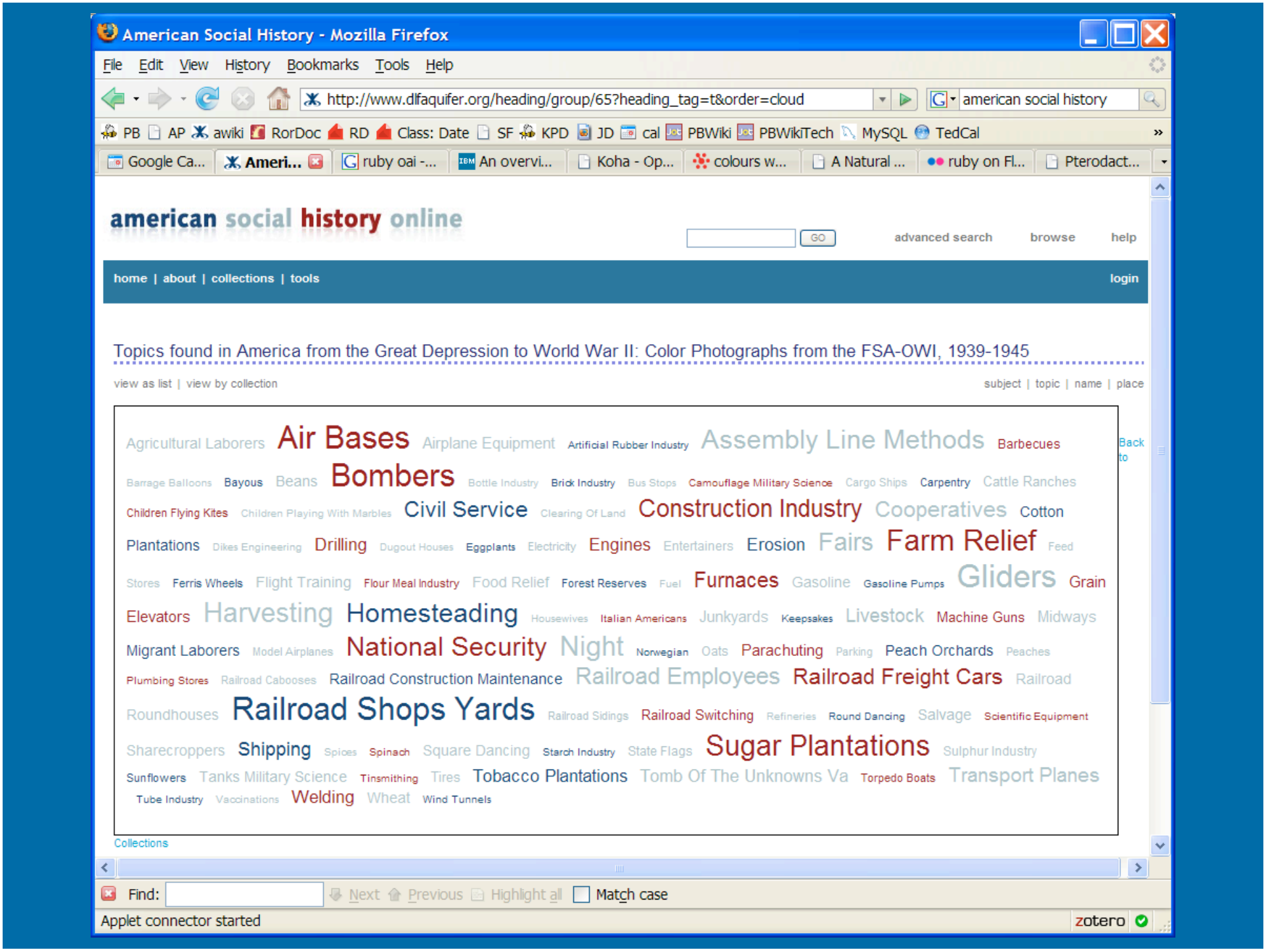



American Social History - Mozilla Firefox
File Edit View History Bookmarks Tools Help
http://www.dlfaquifer.org/search/timeline
american social history
american social history online
GO
advanced search
browse
help
home | about | collections | tools
login
New-York. July 25, 1774. Extract of a letter from London, by way of Philadelphia, to a gentleman in this City. "the unhappy disputes which at present subsist between Great Britain and America, fill our
To the Tradesmen, Mechanics, &c. of
To the Delaware pilots. The regard
In Congress, Friday, June 9, 1775.
Exact plan of General Gage's lines on
A new and correct plan of the town
By his Excellency the Right
Committee-Chamber, New York 1st
The Provincial Congress at their
To the freeholders of the town of
New York, May 8, 1775. Extract of a
By the packet just arrived here and
Williamsburg, Saturday, April 29,
By an express arrived at Philadelphia
Advertisement. The committee of
New-York. July 25, 1774. Extract of a
Advices from Philadelphia, dated July
Committee-Chamber, July 25, 1774.
The following act came to hand by the
In Provincial congress, Cambridge,
To the citizens of New-York, on the
In Provincial congress, Cambridge,
The following extracts from the votes
Boston, May 24, 1774. The merchants
To the inhabitants of the City and
The following extracts from the votes
[New York Island; Military; unf
This map of the province of
In Committee of inspection,
New York, July 1, 1776. By th
A map of the middle British col
A Map of the country round
Philadelphie
In Congress, November 23, 17
In Congress, July 19, 1776. Re
In Congress. December 9, 177
1773
1775
1770
1780
1600
1700
1800
1900
Timeline © SIMILE
Done
zotero

SEO

- bot friendly
- shallow tree to relevant information
- urls reflect relevance
- distinctive headings
- Success? Too early to tell
- There's more to do


American Social History - Mozilla Firefox
File Edit View History Bookmarks Tools Help
http://www.dlfaquifer.org/heading/group/65?heading_tag=t&order
american social history
PB AP awiki RorDoc RD Class: Date SF KPD JD cal PBWiki PBWikiTech MySQL TedCal
ruby oai... An over... Koha - ... colours ... A Natur... ruby on... Pteroda...
american social history online
GO
advanced search
home | about | collections | tools
Topics found in America from the Great Depression to World War II: Color Photographs from the FSA-OWI, 1939-19
This list is sorted by Distinctive
view as cloud | view by collection Sort by: distinctiveness | frequency | uniqueness | rarity
subject | topic | name | place
Topic In this collection Total
Bombers 26 26
Farm Relief 24 24
Homesteading 20 20
Cooperatives 15 15
Transport Planes 12 12
Drilling 10 10
Tobacco Plantations 9 9
Parachuting 7 7
Airplane Equipment 7 7
Gasoline 6 6
Sharecroppers 6 6
Square Dancing 5 5
Peach Orchards 5 5
Railroad Roundhouses 5 5
State Flags 3 3
Sulphur Industry 3 3
Oats 3 3
Feed Stores 2 2
Railroad Sidings 2 2
Children Flying Kites 2 2
« Previous 1 2 3 4 5 6 7 8 9 13 14 Next »
Find: Next Previous Highlight all Match case
Applet connector started
zotero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http://www.dlfaquifer.org/heading/group/65?heading_tag=t&order=cloud
american social history
PB AP awiki RorDoc RD Class: Date SF KPD JD cal PBWiki PBWikiTech MySQL TedCal
Google Ca... Ameri... ruby oai -... An overvi... Koha - Op... colours w... A Natural ... ruby on Fl... Pterodact...
american social history online
GO
advanced search
browse
help
home | about | collections | tools
login
Topics found in America from the Great Depression to World War II: Color Photographs from the FSA-OWI, 1939-1945
view as list | view by collection
subject | topic | name | place
Agricultural Laborers
Air Bases
Airplane Equipment
Artificial Rubber Industry
Assembly Line Methods
Barbecues
Barrage Balloons
Bayous
Beans
Bombers
Bottle Industry
Brick Industry
Bus Stops
Camouflage Military Science
Cargo Ships
Carpentry
Cattle Ranches
Children Flying Kites
Children Playing With Marbles
Civil Service
Clearing Of Land
Construction Industry
Cooperatives
Cotton
Plantations
Dikes Engineering
Drilling
Dugout Houses
Eggplants
Electricity
Engines
Entertainers
Erosion
Fairs
Farm Relief
Feed
Stores
Ferris Wheels
Flight Training
Flour Meal Industry
Food Relief
Forest Reserves
Fuel
Furnaces
Gasoline
Gasoline Pumps
Gliders
Grain
Elevators
Harvesting
Homesteading
Housewives
Italian Americans
Junkyards
Keepsakes
Livestock
Machine Guns
Midways
Migrant Laborers
Model Airplanes
National Security
Night
Norwegian
Oats
Parachuting
Parking
Peach Orchards
Peaches
Plumbing Stores
Railroad Cabooses
Railroad Construction Maintenance
Railroad Employees
Railroad Freight Cars
Railroad
Roundhouses
Railroad Shops Yards
Railroad Sidings
Railroad Switching
Refineries
Round Dancing
Salvage
Scientific Equipment
Sharecroppers
Shipping
Spices
Spinach
Square Dancing
Starch Industry
State Flags
Sugar Plantations
Sulphur Industry
Sunflowers
Tanks Military Science
Tinsmithing
Tires
Tobacco Plantations
Tomb Of The Unknowns Va
Torpedo Boats
Transport Planes
Tube Industry
Vaccinations
Welding
Wheat
Wind Tunnels
Back to
Collections
Find:
Next
Previous
Highlight all
Match case
Applet connector started
zotero

Other things I'm supposed to mention

- OpenID
- Zotero integration
- unAPI
- SRU/SRW
- Collections
- eXist – Xquery
- Transparent process -- XSLT

Why RoR is just too Great

- It's the framework
- DRY (don't repeat yourself)
- Tightly coupled testing harness
- Exuberant and dedicated community

Refactotum

- Community spirit
- Towards more robust code
- Using the test harness
- flog and heckle

Code Example

```
class User < ActiveRecord::Base
  acts_as_solr
end
```

Code Example

```
class User < ActiveRecord::Base
end
```

Significant Resources

- rubyonrails.org/
- simile.mit.edu/
- lucene.apache.org/solr/
- exist.sourceforge.net/
- www.cdlib.org/inside/diglib/datenorm/

Ruby Resources

Gems

- capistrano
- htmlentities
- json
- oai
- ruby-openid

Plug-ins

- acts_as_solr
- cql_to_solr (soon)
- mdd
- will_paginate

Questions? Comments?

Portal: www.dlfaquifer.org

kkott@diglib.org