exhibit

lightweight structured data publishing

david huynh + david karger + rob miller

MIT COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE LABORATORY

Vietnamese Recipes at Epicurious.com

Back Forward Reload Stop Home http://www.epicuric Search Bookmarks

epicurious

epishop • video • forums

RECIPES FEATURES COOKING DRINKING RESTAU

recipe collections • slideshows • forums • find a recipe

recipe search GO

advanced search · browse

Member? Log in. Not a member? Register here!

search

facets

browse

search our drink database

browsing by: Vietnamese

refine by: Main Ingredient | Course | Dish | Season/Occasion | Recipe Category | Preparation | Healthy Options

Beans (1)	Fruits (7)	Mushrooms (4)	Pork (5)	Soy (3)
Beef (13)	Garlic (6)	Nuts (3)	Potatoes (1)	Tomatoes (1)
Chicken (8)	Ginger (2)	Onions (4)	Poultry (7)	Vegetables (8)
Citrus (6)	Greens (7)	Pasta (13)	Rice (6)	
Fish (5)	Herbs (10)	Peppers (6)	Shellfish (11)	

query preview

55 recipes

sort results

sort

Best Match

rating at a glance

ED FISH WITH DILL AND ONION

Epi

GREEN PAPAYA SALAD WITH BEEF AND LIVER JERKY
Epicurious, October 2006

SHAKING BEEF
Epicurious, October 2006

HUE NOODLE SOUP
Bon Appétit, January 2006

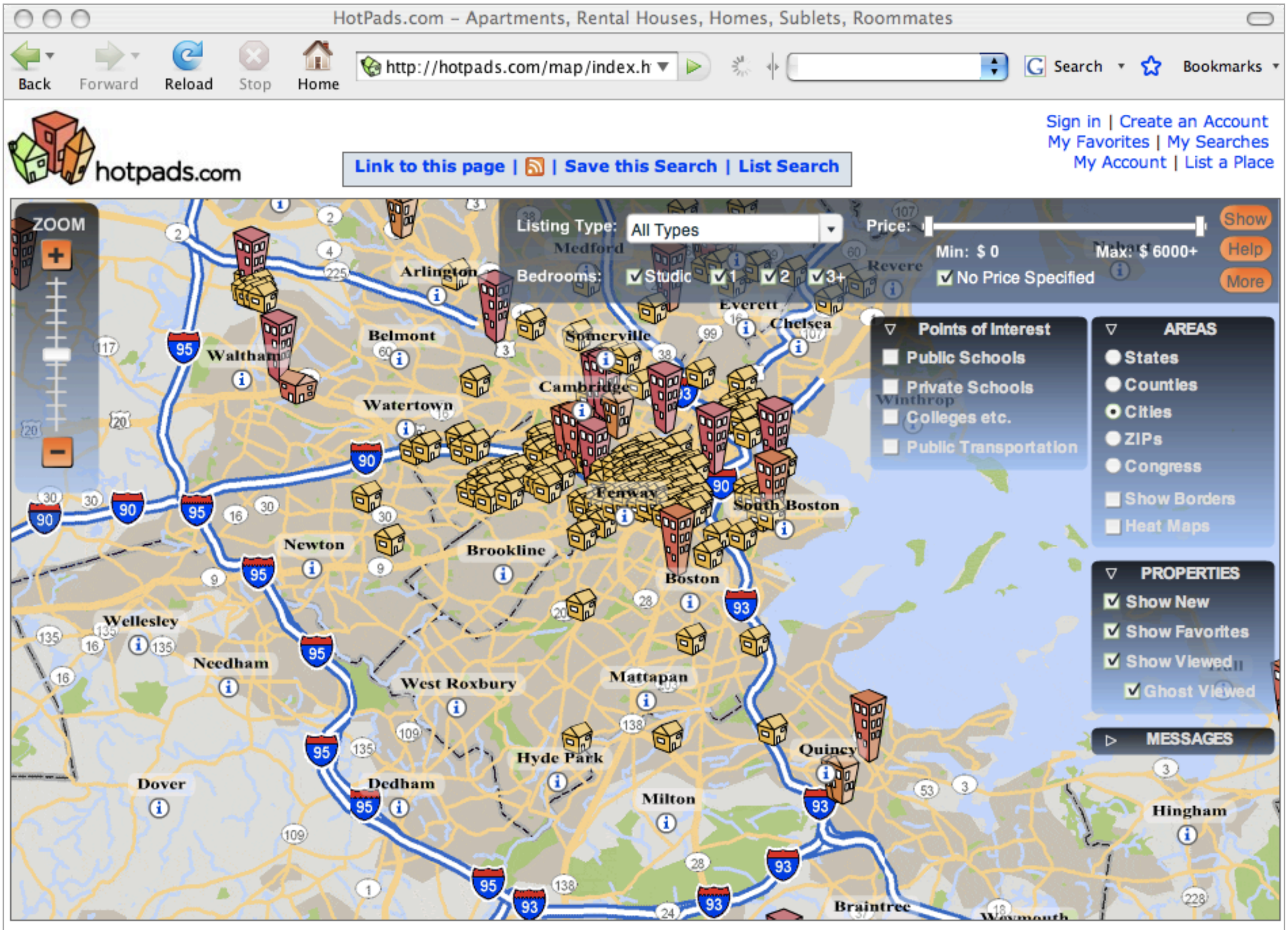
BON APPÉTIT read · subscribe

Gourmet read · subscribe

SHOP ON EPICURIOUS

Done

2


HotPads.com – Apartments, Rental Houses, Homes, Sublets, Roommates
Back
Forward
Reload
Stop
Home
http://hotpads.com/map/index.h
Search
Bookmarks
hotpads.com
Link to this page | | Save this Search | List Search
Sign in | Create an Account
My Favorites | My Searches
My Account | List a Place
ZOOM
Listing Type: All Types
Price:
Min: $ 0
Max: $ 6000+
Bedrooms: Studio 1 2 3+
No Price Specified
Show
Help
More
Points of Interest
Public Schools
Private Schools
Colleges etc.
Public Transportation
AREAS
States
Counties
Cities
ZIPs
Congress
Show Borders
Heat Maps
PROPERTIES
Show New
Show Favorites
Show Viewed
Ghost Viewed
MESSAGES
Medford
Arlington
Belmont
Waltham
Watertown
Cambridge
Somerville
Everett
Chelsea
Revere
Winthrop
Boston
Fenway
South Boston
Brookline
Newton
Wellesley
Needham
West Roxbury
Mattapan
Hyde Park
Milton
Quincy
Dedham
Dover
Braintree
Hingham
Transferring data from maptiles.hotpads.com...

3

Web Browser

PRESENTATION

HTML

Javascript CSS Images

Web Server

Static Files

File System

4

Web Browser

PRESENTATION

HTML

Javascript CSS Images

Web Server

Static Files

File System

DATA

Database

MySQL / Postgres / Oracle

5

Web Browser

PRESENTATION

HTML

Javascript CSS Images

XML XSLT

XmlHttp

Application Server

Web Server

CGI

LOGIC

ASP.NET JSP/Java

ASP PHP

Static Files

SQL

File System

DATA

Database

MySQL / Postgres / Oracle

6

publishing data is **hard**.

7

Ivan Herman, Publications {grouped as sorted}

Back Forward Reload Stop Home http://homepages.cwi.nl/~ivan/AboutMe/CV/Pres.html Google Bookmarks

- About me
- Education, positions
- Publications
- Major Presentations
- R&D Activities
- Professional actitivies:
  - Current
  - Past
- Computing experiences

Public Presentations

(An RDF version of the list are also available.)

46 presentation total

Copy All

sorted by: city; then by... • ...orted • ○ show duplicates

sort

country
labels
year

Amsterdam (2)

1. "*Tutorial on Semantic Web Technologies*", at "XTech 2005 Conference" , Amsterdam, The Netherlands, 2005-05-24. Slides are available on-line.
2. "*RDF/OWL Semantic Technologies*", at "News Standards Summit 2005" , Amsterdam, The Netherlands, 2005-05-24. ...ilable on-line.

group by city

Antwerpen (1)

3. "*Tutorial on Sem...*" ...Semantic Web Seminarie" (Semantic Web Presentations) , An... ...6. Slides are available on-line.

Athens, GA (2)

4. "*Uncertainty and the Semantic Web*", at "Workshop on Uncertainty Reasoning on the Semantic Web" , Athens, GA, USA, 2006-11-05. Slides are available on-line.
5. "*...ntic Web @ W3C: Activities, Recommendations and State of Adoption*", at "Industrial ... 5th International Semantic Web Conference (ISWC2006)" , Athens, GA, USA, ...des are available on-line.

...akes, Queensland (1)

6. "*...ard are Important: An overview of W3C, its operation and current technical ...*" ...AusWeb06" , Australis Noosa Lakes, Queensland, Australia, 2006-07-03. Slides ...e on-line

Search facets:

country

filter by country

- 2 Australia
- 1 Austria
- 3 Belgium
- 5 China
- 2 Finland
- 5 Germany
- 2 Hungary
- 6 India
- 1 Italy
- 1 Korea
- 3 Norway

javascript:

8

raise your hand...

... if you have
your own web sites
listing your publications?

9

keep your hands up...

... if your web sites
support sorting and grouping by
by year, author, topic, ...?

10

keep your hands up...

... if your sites
support filtering by
year, author, topic, ...?

11

keep your hands up...

... if your sites
can export data in structured formats?

12

publishing data is **hard**.

can Semantic Web technologies help?

13

remember back in the early 1990s...

14

outline

✓problem: publishing data is too hard

✓demo: using Exhibit to publish data in 10 min

- implementation: how Exhibit works
- real world uses + discussion
- related work
- future work
- conclusion

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Web Browser

PRESENTATION

HTML

Javascript CSS Images

XML XSLT

XmlHttp

Application Server

Web Server

CGI

LOGIC

ASP.NET JSP/Java

ASP PHP

Static Files

SQL

File Systems

DATA

Database

MySQL / Postgres / Oracle

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Web Browser

PRESENTATION

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Javascript CSS Images

XML XSLT

XmlHttp

Application Server

Web Server

CGI

LOGIC

ASP.NET JSP/Java

ASP PHP

SQL

Static Files

File Systems

DATA

Database

MySQL / Postgres / Oracle

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Web Browser

HTML

Javascript CSS Images

PRESENTATION

LOGIC

DATA

Exhibit API

XmlHttp

Web Server

Static Files

File Systems

18

web browser

HTML
+
Images
+
CSS
+
JS

19

web browser

HTML
+
Images
+
CSS
+
JS

<script src= “..... /exhibit-api.js”>
</script>

19

web browser

HTML
+
Images
+
CSS
+
JS

views

lens
template

facets

exporters

images
css

localization

expression language

database

importers

Exhibit API

19

web browser

HTML
+
Images
+
CSS
+
JS

views

lens
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Exhibit API

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19

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Exhibit API

data

19

web browser

HTML

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Images
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CSS
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Exhibit API

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19

web browser

DOM

HTML

JS

HTML
+
Images
+
CSS
+
JS

views

lens
template

facets

exporters

images
css

localization

expression language

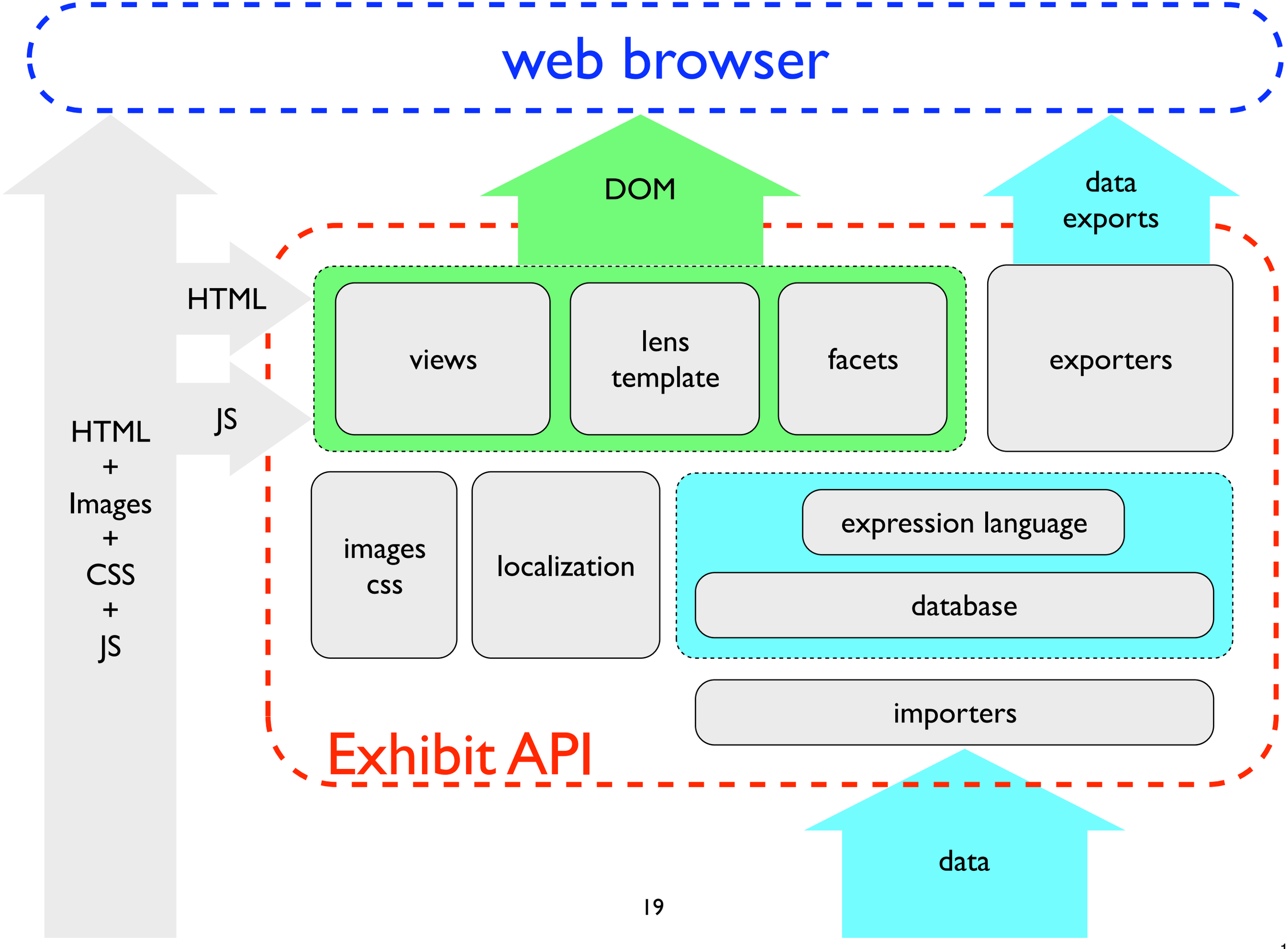
database

importers

Exhibit API

data

19


web browser
DOM
data
exports
HTML
HTML
JS
+
Images
+
CSS
+
JS
views
lens
template
facets
exporters
images
css
localization
expression language
database
importers
Exhibit API
data

19

web browser

20

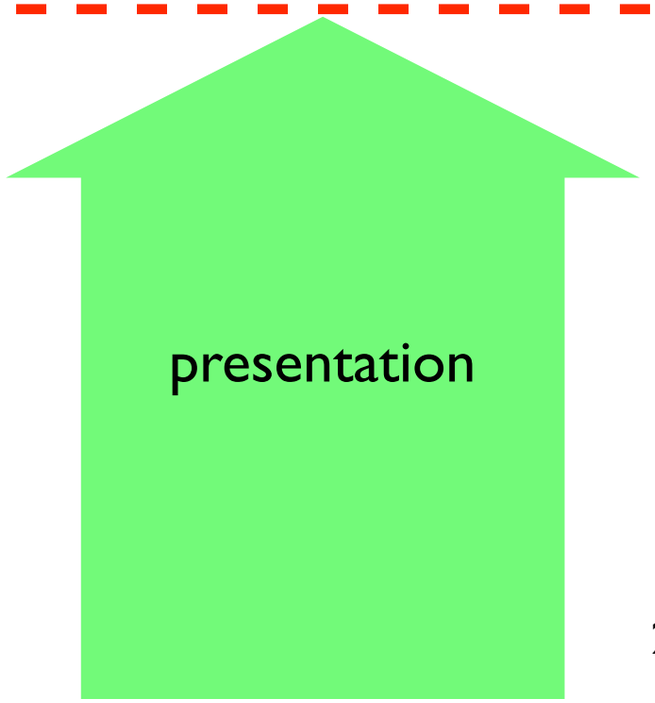
web browser

Exhibit API

20

web browser

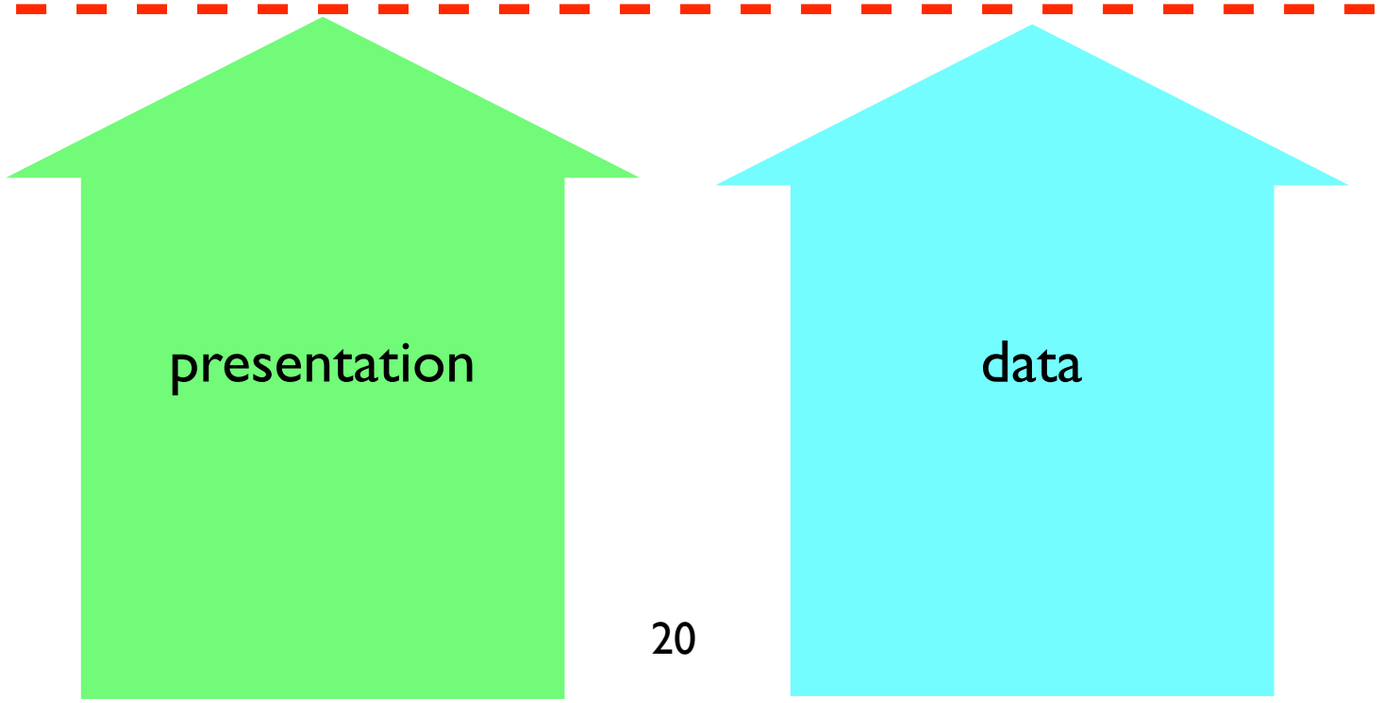
Exhibit API



20

web browser

Exhibit API



20

my users

sorting
filtering
maps
timelines

web browser

Exhibit API

presentation

data

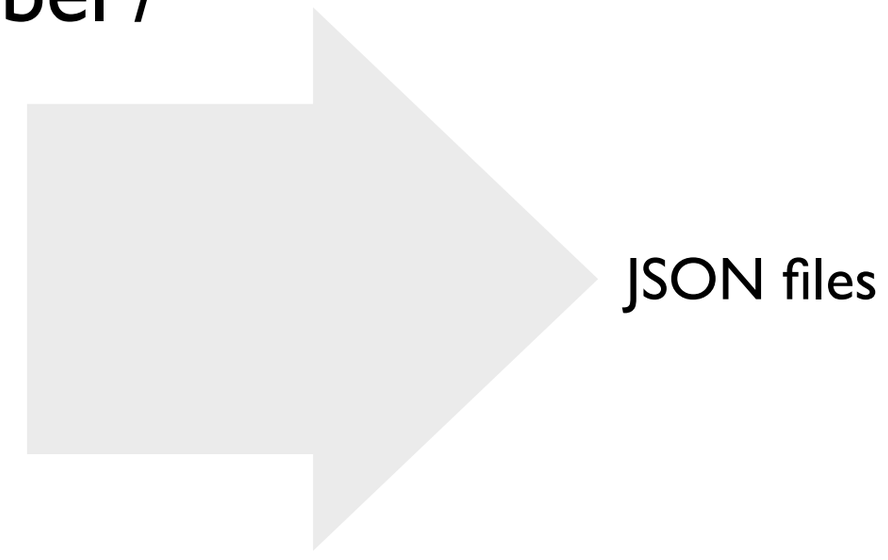
20

data formats

- JSON as default format

- http:// simile . mit . edu / babel /
  - Bibtex
  - Excel spreadsheets
  - Tab separated values
  - RDF/XML, N3

- Dynamic importers



21

movies – Google Docs & Spreadsheets

Back Forward Reload Stop Home http://spreadsheets.google.com/ccc?id=o0884186775411 Search Bookmarks

Google Docs & Spreadsheets BETA

dfhuynh@gmail.com | Docs Home | Help | Sign Out

movies Autosaved at Apr 16, 2007 11:33:28 AM PDT

Automatically Saved | Save & close

File | Edit | Sort | Formulas | Revisions | Preview | Print | Discuss | Collaborate | Publish

Format | B | I | U | Align | Insert | Delete | Wrap Text | Merge across

	A	B	C	D	E
1	{label}	{type}	{genre}	{plot:single}	{rating:number}
2	Lord of the Rings: The Return of the King	Movie	Drama; Epic	The former Fellowship of the Ring prepare for the final battle for Middle Earth, while Frodo & Sam approach Mount Doom to destroy the One Ring.	4
3	Fight Club	Movie	Crime; Drama; Thriller	An office employee and a soap salesman build a global organization to help vent male aggression.	5
4	Memento	Movie	Crime; Mystery; Thriller	A man, suffering from short-term memory loss, uses notes and tattoos to hunt for the man he thinks killed his wife.	5
5	Enemy at The Gates	Movie	Action; Drama; History; Thriller; War	Two Russian and German snipers play a game of cat-and-mouse during the Battle of Stalingrad.	4
6	King Kong	Movie	Drama		3
7	Casino Royal	Movie	Action		
8	The Shining	Movie	Action	dkfljasd	4
9	Babel	Movie	Action; Drama	ksdjf	5
10					
11					
12					
13					
14					
15					
16					

Add Sheet | Sheet1 | Action; Drama; History; Thriller; War | V1.2.0j

Transferring data from www.google.com...

Publish this spreadsheet

Published at:

http://spreadsheets.google.com/pub?key=pLvsUS-CftHo21r-0xjKvVA

published Feb 12, 2007 8:24:52 AM PST

Automatically update every 5 minutes?

- Yes
- No, only publish manually

What parts?

All sheets

Re-publish | Stop publishing

Subscribe

More publishing options

22

JSONP data feed

```
gdata.io.handleScriptLoaded({
  ...
  "entry": [
    { "id":{
        "$t":"http://spreadsheets.google.com/feeds/list/.../od6/public/basic/cokwr"
      },
      "updated":{"$t":"2007-04-16T18:41:56.378Z"},
      "category":[
        { "scheme":"http://schemas.google.com/spreadsheets/2006",
          "term":"http://schemas.google.com/spreadsheets/2006#list"
        }
      ],
      "title": {
        "type":"text",
        "$t":"Lord of the Rings: The Return of the King"
      },
      "content": {
        "type": "text",
        "$t": "{type}: Movie, {genre}: Drama; Epic, {plot:single}: The former Fellowship
of the Ring prepare for the final battle for Middle Earth, while Frodo \u0026 Sam
approach Mount Doom to destroy the One Ring., {rating:number}: 4"
      },
    ...
    },
    ...
  ]
})
```


23

scalability

- Javascript is slow, not designed for implementing DBs

- Recommended for < 500 items
- Some people have been brave: 2733 items or more

- Not a limitation per se
- Exhibit is intended for small data sets

24

outline

✓problem: publishing data is too hard
✓demo: using Exhibit to publish data in 10 min
✓implementation: how Exhibit works

- real world uses + discussion
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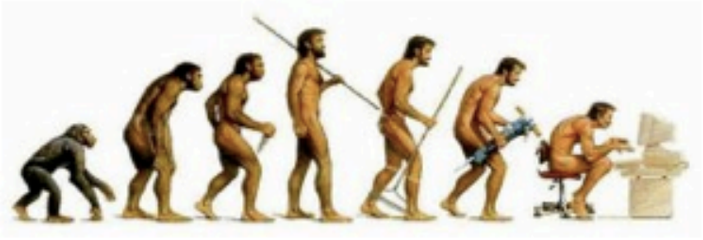
- future work
- conclusion

25



AI3

Adaptive Information
Adaptive Innovation
Adaptive Infrastructure

a·dap·tive *adj.* Showing or having a capacity to make fit for new or special situations; flexible; a successful adjustment.

Blogasbörd by
Michael K. Bergman

Main Links

- Home
- SweetSearch
- Sweet Tools (Sem Web)
- Pro Blogging Guide
- Chronological Listing
- Acronyms & Glossary
- This Blogasbörd
- About Mike

Thanks & Credits

XML WORDPRESS Technorati Profile SITE METER SUB BLOGLINES SOME RIGHTS RESERVED W3C XHTML 1.0

Sweet Tools (Sem Web)

AI3's Comprehensive Listing of Semantic Web and Related Tools

NOTE: This posting of **Sweet Tools** — semantic Web and related tools — is now in version **8**, with **500 tools**, an addition of 80 newly listed tools since the previous version. It was last updated on **3/11/07**. It is presented via the Exhibit database design (see explanation here). New tools or update suggestions are welcomed.

Last Updated 3/11/07

500 Items total

Copy All

sorted by: labels and Category; then by... • ☑ grouped as sorted • ○ show duplicates

1. **3store**

A core C library that uses MySQL to store its raw RDF data and caches, forming an important part of the infrastructure required to support a range of knowledgeable services

Category: Database/Datastore **Primary Language:** C / C++
FOSS?: Yes **Listed:** 8/12/2006 **Updated:** 3/12/2007

URL: http://www.aktors.org/technologies/3store/

2. **4Suite 4RDF**

The 4Suite 4RDF an open-source platform for XML and RDF processing implemented in Python with C extensions

Category: Programming Environment **Primary Language:** Python
FOSS?: Yes **Listed:** 8/12/2006 **Updated:** 3/12/2007

URL: http://4suite.org/

Category

26	Annotator
23	Browser (RDF, OWL or semantic)
29	Composite App/Framework
8	Data Language
29	Database/Datastore
3	Description or Formal Logics

Language

26	C / C++
7	C#
9	Definition / Specification
4	Don't Know
5	Haskell
223	Java
59	JavaScript

Posted

26	1/22/2007
56	1/4/2007
47	1/9/2007

Done

Restaurants {select Map view}

Back Forward Reload Stop Home http://www.cse.msu.edu/~dunham/exhibit/top100.html Search Bookmarks

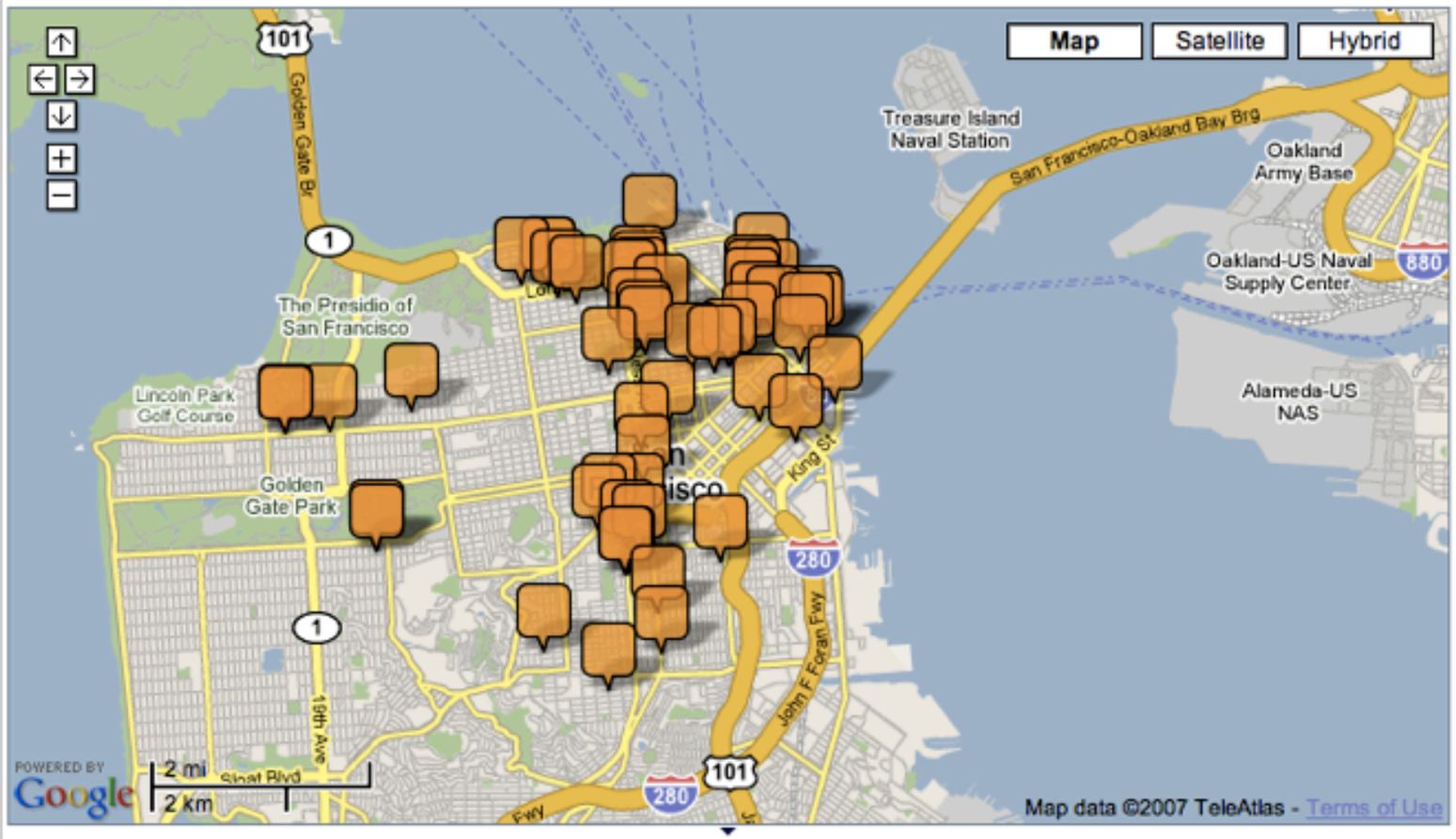
This is based on some RDF data that I had scraped from sfgate's top 100 restaurant list using piggy bank. I can't remember why there are only 97 entries. :)

TILES • TABLE • **MAP**

97 Restaurants total

Copy All

Only 94 can be plotted on map.



Color Legend

Mixed

rating

4	2.0
14	2.5
59	3.0
11	3.5
6	4.0

cuisine

1	African
15	American
3	Asian
1	Bakery
2	Basque
1	BBQ
32	California
4	Chinese

price

7	1.0
45	2.0
28	3.0
17	4.0

Transferring data from mt2.google.com...

27

MyPipeline ::: One-Pot Wonders

Back Forward Reload Stop Home http://www.mypipeline.co.uk/projects Search Bookmarks

<<< BACK TO MYPIPELINE

3 Item total

Copy All

sorted by: Cuisine; then by... • ☑ grouped as sorted • ◯ show duplicates

Smoked Haddock flan

- *200g Smoked Haddock filets*
- *2 potatoes*
- *600ml milk*
- *2 eggs*
- *pie base*

Put the haddock in a saucepan with milk, pepper and thyme. Poach for 10 minutes and leave to cool. Beat the eggs and the fresh cream. Add cooking milk of the cooled haddock. Remove the skin and the stop the haddock. Cut the potatoes into fine rondelles. Place the rondelles of potatoes onto the pie bottom, then add the haddock flakes. Whip the eggs with a touch of milk, then pour the egg on the fish and potatoes. Cook at 180deg C for 40 minutes in the oven.

Sweet Sausage and Cabbage Fettucine

- *Marks & Spencer Apple and Pork sausages (4)*
- *Half an onion*
- *Half a Savoy cabbage*
- *200ml pouring cream*
- *fettuccine (250g)*

First julienne your vegetables and cut your sausages into small (half-inch) chunks. Boil some water for the fettuccine, and depending on whether you have fresh fettuccine or not, start to boil the pasta. Then heat up a pan until hot and add the sausages. Cook with the onions until both are crispy and golden. Add the cabbage when the onions and sausage have been cooking about 7 minutes. Finally add the cream when the cabbage begins to soften. Stir in the mixture into the boiled fettuccine and serve with a baguette.

Cuisine

1 ✓ French
1 ✓ Italian
1 ✓ Swedish

Easiness

1 ✓ moderate
2 ✓ very easy

Time

1 ✓ 1 hour
1 ✓ 20min
1 ✓ 30min

Done

28

Israeli Folk Dance Videos

Back Forward Reload Stop Home http://projects.csail.mit.edu/ifd/ Search Bookmarks

Israel Folk Dance Video Index

Video Index | Unprocessed Videos | Broken videos | Submit Dances

What is this? This is a page indexing the Israeli Folk Dance videos that can be found on various video sharing sites like Youtube and Google Video. This site doesn't hold the videos, but aims to make it easy to find them by letting you search, sort, and visualize the videos according to various useful attributes.

choreographers

- 1 Alberto Zirlinger
- 1 Amnon Shauli
- 1 Avi Amsalam
- 6 Avi Levy
- 4 Avi Perez
- 1 Aviv Ben Ishay
- 3 Avner Naim

years choreographed

- 1 1949
- 1 1959
- 1 1960
- 1 1970
- 1 1973
- 1 1976
- 1 1978

form

- 90 circle
- 66 couple
- 13 line
- 2 solo

170 Videos total

THUMBNAILS • TABLE • DETAILS • TIMELINE

Copy All

sorted by: labels; then by... • ○ grouped as sorted • ○ show duplicates

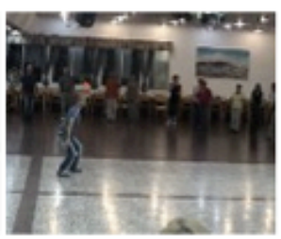
Aba Shim'on | Achdut | Ad Bechi | Ad Olam | Ad Sof Haolam

Agadat Hamapuchit

Ahava Bageshem

Ahava Yam Tichonit

Ahuv Besayeret Charuv



Ahuv Sheli - Dance

Done

29

Your Artists Albums {select Release Year view}

Back Forward Reload Stop Home http://www.hmdialog.com/Radio/Albums.html Search Bookmarks

NGP Next Generation Personalization

Next Generation Personalization

Echoes: The Best Of Pink Floyd
Release: , *2001*
Charts: (weeks)
Buy Album

Your Artists Albums

THUMBNAILS • LIST • RELE

90 Items total

Copy All

ssions
to Babylon
No Security
Early Days: The Best of Led
Latter Days: The Best of Led
Is There Anybody Out There?
Echoes: The Best Of Pink Floyd

1998 1999 2000 2001 2002

Timeline © SIMILE

1980 1990 2000 2010 202

Re-Layout

artist

18 ✓ Led Zeppelin
21 ✓ Pink Floyd
51 ✓ Rolling Stones

year

2 ✓ 1964
4 ✓ 1965
4 ✓ 1966
4 ✓ 1967
2 ✓ 1968
5 ✓ 1969
3 ✓ 1970
7 ✓ 1971

EXHIBIT

Read upload.wikimedia.org

30

MyPipeline ::: 4Car Research Tool Prototype

Back Forward Reload Stop Home http://mypipeline.co.uk/projects/exhibits, Search Bookmarks

Car

BACK TO MYPIPELINE HOME

Car Finder

This page aims to show a prototype of a Research A Car filtering engine. It uses MIT Simile Project's Exhibit JSON engine to filter results from an external javascript file, so it's not as robust as a database-driven site. But it's also quicker, and lighterweight. :)

Here is the Exhibit JSON data file.

CATEGORY

- 38 Affordable Sports
- 51 Exotic Sports

MANUFACTURER

- 4 Alfa Romeo
- 1 Ariel
- 4 Aston Martin
- 3 Audi
- 1 Bentley Motors
- 10 BMW
- 1 Bristol

RATING

- 1 1
- 1 1.5
- 4 2
- 11 2.5
- 15 3
- 12 3.5
- 23 4

PRICEBAND

- 16 100,000-150,000
- 21 15,000-30,000
- 33 30,000-70,000
- 17 70,000-100,000

THUMBNAILS • TIMELINE

89 Item total

Copy All

sorted by: CATEGORY; then by... • ☑ grouped as sorted • ◯ show duplicates

Affordable Sports (38)

BMW 3 Series Coupe
Model Year: *1999-*
4Car Rating: 3.5
Price Band: 15,000-30,000
View Road Test

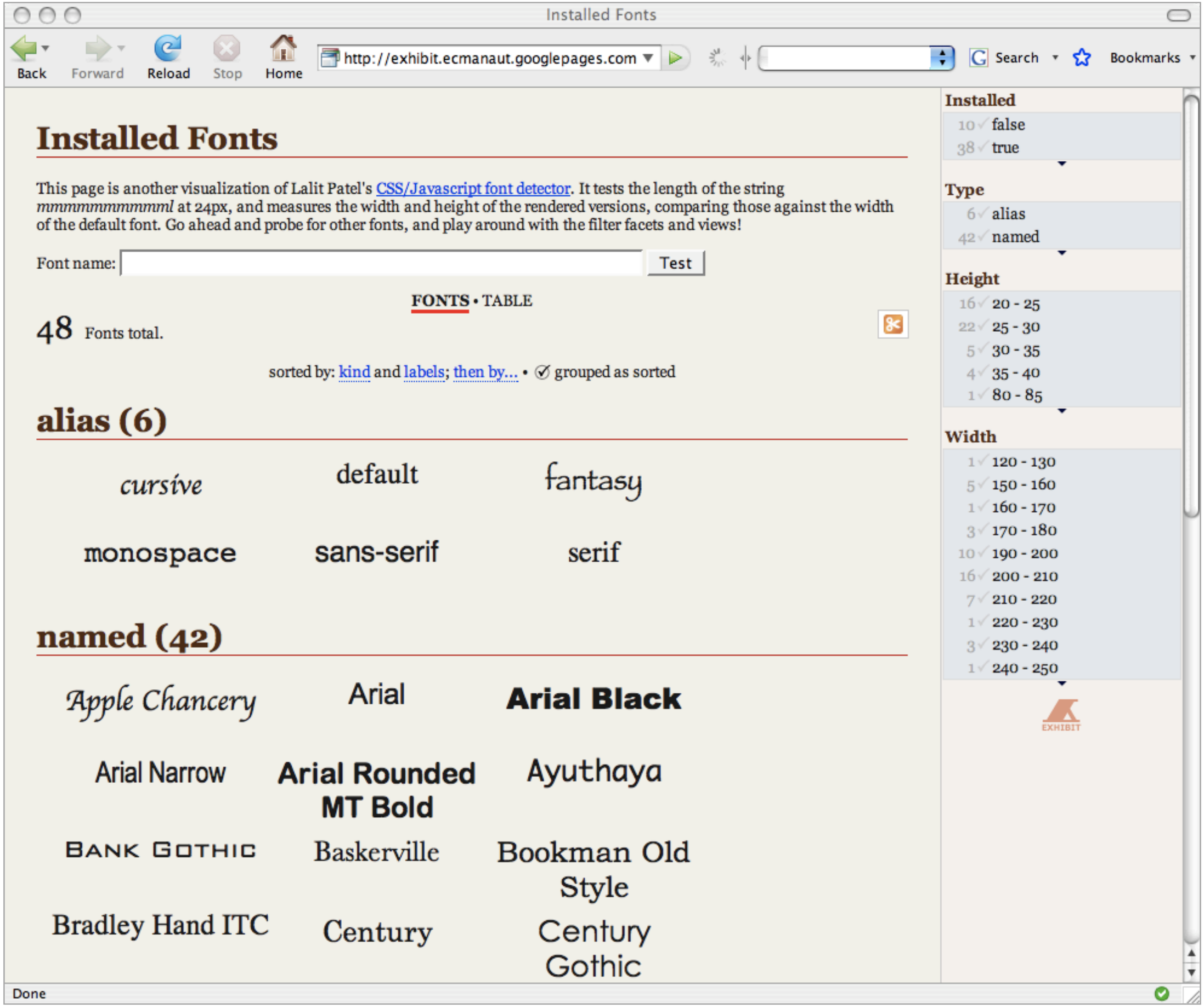
Honda Civic Coupe
Model Year: *1996-2001*
4Car Rating: 2
Price Band: 15,000-30,000
View Road Test

BMW 3-Series Coupe
Model Year: *2006-*
4Car Rating: 4.5
Price Band: 30,000-70,000
View Road Test

Mitsubishi Lancer Evo IX
Model Year: *2005-*
4Car Rating: 4
Price Band: 30,000-70,000
View Road Test

Done

31


Installed Fonts
Back
Forward
Reload
Stop
Home
http://exhibit.ecmanaut.googlepages.com
Search
Bookmarks
Installed Fonts
This page is another visualization of Lalit Patel's CSS/Javascript font detector. It tests the length of the string mmmmmmmmmml at 24px, and measures the width and height of the rendered versions, comparing those against the width of the default font. Go ahead and probe for other fonts, and play around with the filter facets and views!
Font name:
Test
FONTS • TABLE
48 Fonts total.
sorted by: kind and labels; then by... • grouped as sorted
alias (6)
cursive
default
fantasy
monospace
sans-serif
serif
named (42)
Apple Chancery
Arial
Arial Black
Arial Narrow
Arial Rounded MT Bold
Ayuthaya
BANK GOTHIC
Baskerville
Bookman Old Style
Bradley Hand ITC
Century
Century Gothic
Installed
10 false
38 true
Type
6 alias
42 named
Height
16 20 - 25
22 25 - 30
5 30 - 35
4 35 - 40
1 80 - 85
Width
1 120 - 130
5 150 - 160
1 160 - 170
3 170 - 180
10 190 - 200
16 200 - 210
7 210 - 220
1 220 - 230
3 230 - 240
1 240 - 250
EXHIBIT
Done

32

Double/twin rooms near Boogie-Bären, Landsberg am Lech, Germany, May 25-28 2007 {select Distance / Price view}

Back Forward Reload Stop Home http://exhibit.ecmanaut.googlepages.com/boogie.dev.html Google Bookmarks

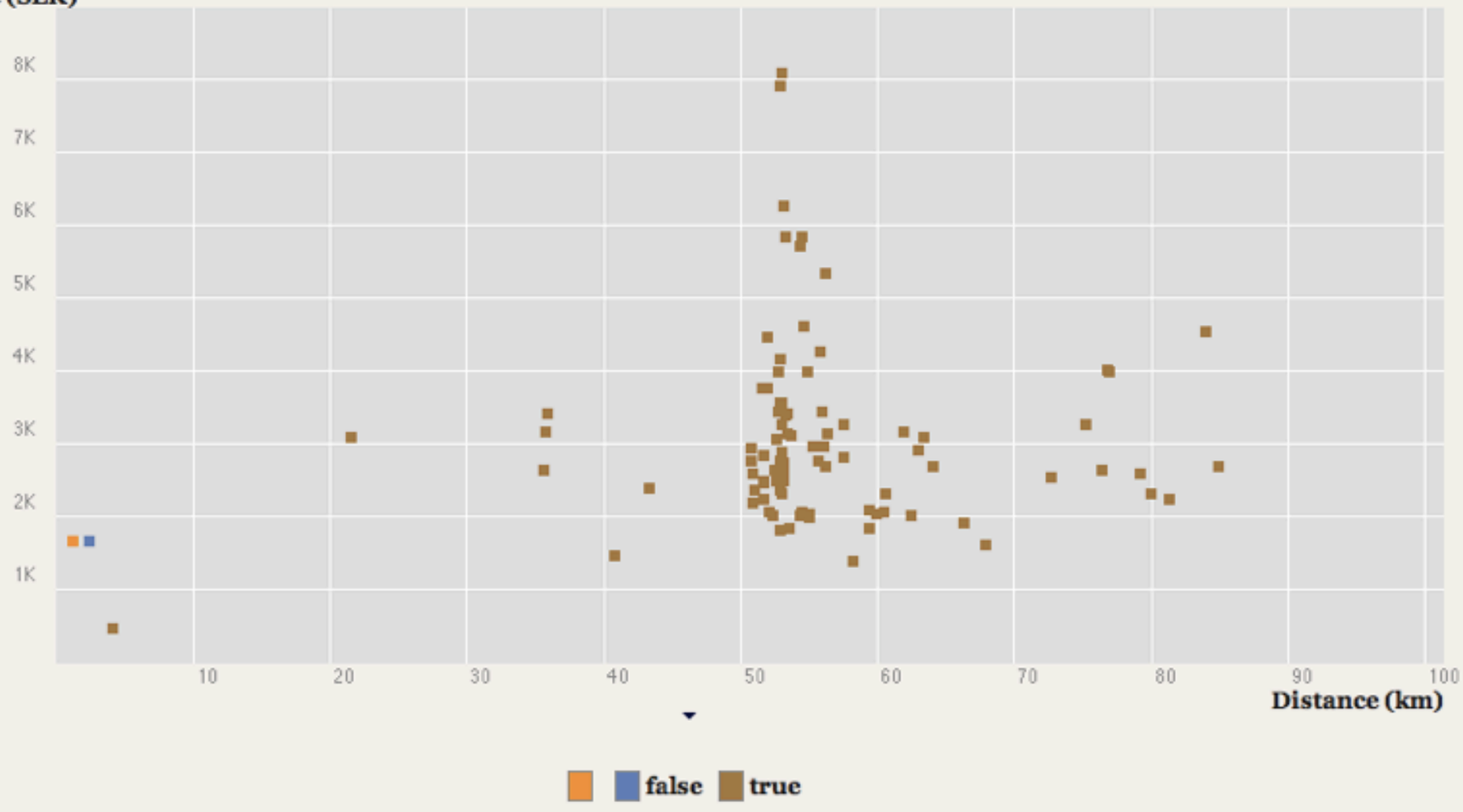
Double/twin rooms near Boogie-Bären, Landsberg am Lech, Germany, May 25-28 2007

TABLE • **DISTANCE / PRICE** • MAP

243 Items total.

146 results out of 243 cannot be plotted.

Price (SEK)



Available double rooms

16 ✓ false
95 ✓ true

Distance (km)

Price (in SEK)

1 ✓ 0 - 500
2 ✓ 1000 - 1500
13 ✓ 1500 - 2000
19 ✓ 2000 - 2500
22 ✓ 2500 - 3000
18 ✓ 3000 - 3500
8 ✓ 3500 - 4000
4 ✓ 4000 - 4500
2 ✓ 4500 - 5000
2 ✓ 5000 - 5500

Waiting for flickr.com... 1 Error

33

MIT Nobel Prize Winners

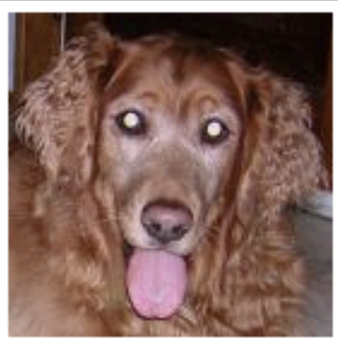
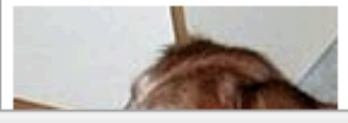
Back Forward Reload Stop Home http://www.ragom.org/exhibit/ Search Bookmarks

MIT Nobel Prize Winners

234 Dog total

oops!

Copy All

name	ragom ID	photo	adopted	birthdate	high medical
Zoey	07-147		yes	2007-01-25	no
Zoe	07-078		yes	2002-02-21	no
Zeta	07-077		yes	2005-09-14	no
Xena	07-098		no	2000-03-09	no

adopted

145 ✓ no
89 ✓ yes

high_medical

234 ✓ no

EXHIBIT

Done

34

Lego sets {unset year = 1961}

Back Forward Reload Stop Home http://wingerz.com/lego/ Search Bookmarks

Lego sets

2733 Items total

Copy All

sorted by: year and cat; then by... • ○ grouped as sorted • ○ show duplicates

1.

Outrigger Construction Crane
4 Juniors, *2004*, *4668*

2.

Harry Hardtack and Monkey
4 Juniors, *2004*, *7081*

3.

Pirate Dock
4 Juniors, *2004*, *7073*

cat

13	4 Juniors
31	Adventure
29	Alpha Team
9	Aqua Nauts
3	Aqua Raiders
6	Aqua Sharks
9	Aquazone

year

3	1958
4	1960
1	1961
1	1962
2	1965
10	1966
5	1967
21	1969

EXHIBIT

Transferring data from www.hccamsterdam.nl... 5 Errors

35

Primitivism: Rites of Spring {set type = costume}

Back Forward Reload Stop Home http://idesweb.bc.edu/maria/primitivism/primitivism.htm Google Bookmarks

Getting Started Latest Headlines exhibit talk talk set 1 talk set 2

Primitivism: Rites of Spring

The information within this page has been retrieved from all over. Here is the Exhibit JSON data file.

performance
- 61 ✓ Kirov reconstruction
- 3 ✓ Massine
- 7 ✓ World Premier

company
- 7 ✓ Ballet Russes
- 3 ✓ Massine
- 61 ✓ The Kirov Ballet

date
- 7 ✓ 1913
- 3 ✓ 1944
- 61 ✓ 1996

artist
- 58 ✓ Millecent Hodson
- 9 ✓ Nicholas Roerich
- 3 ✓ Sketch by Millicent Hodson ©
- 1 ✓ Unattributed

type 1 ✓
- 1 audio
- 5 company
- 71 ✓ **costume**
- 11 performance
- 4 photo
- 5 production
- 1 set

DETAILS • **THUMBNAILS**

71 costume filtered from 112 originally (reset)

Copy All

sorted by: performance; then by... • ✓ grouped as sorted • ○ show duplicates

World Premier (7)

Maidens
World Premier, *Ballet Russes*
1913

Maiden and Elder Costumes
World Premier, *Ballet Russes*
1913

Sketch: a girl
World Premier, *Ballet Russes*
1913

Women's Costume for the first

Done

36

Breweries and Distilleries in Ontario 1914–15 {select Map view}

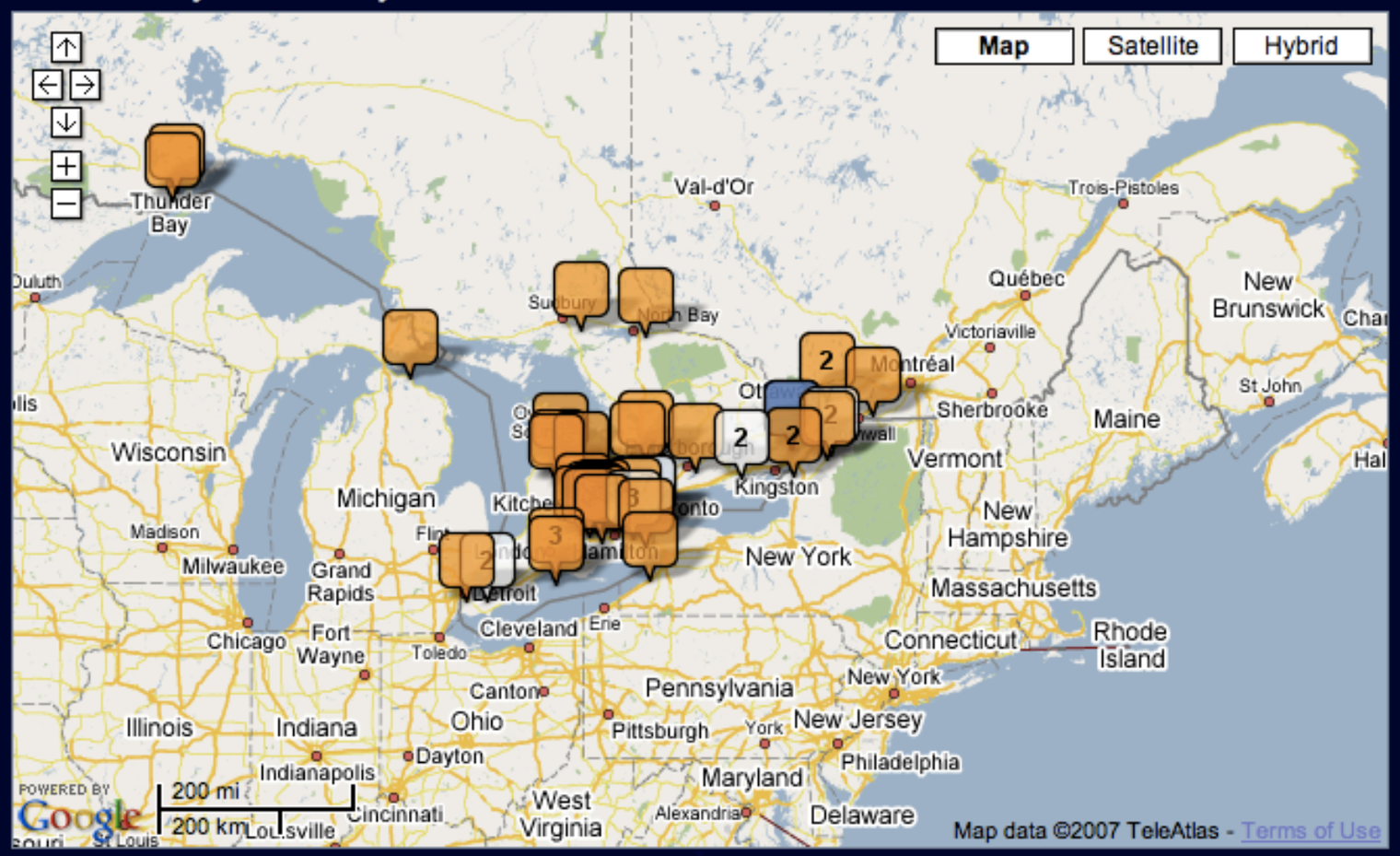
Back Forward Reload Stop Home http://shawnday.com/drink.html Search Bookmarks

Breweries and Distilleries in Ontario 1914-15

TILES • MAP

55 Brewery and Distillery total

Copy All



Location

- 1 ✓ Barrie
- 2 ✓ Belleville
- 1 ✓ Berlin
- 1 ✓ Brantford
- 1 ✓ Brockville
- 1 ✓ Carlsruhe
- 1 ✓ Cornwall
- 1 ✓ Formosa

type

- 46 ✓ Brewery
- 9 ✓ Distillery

EXHIBIT

Color Legend

- Brewery
- Distillery
- Mixed

Transferring data from mt1.google.com... 18 Errors

37

Kansai Chapter 6

http://llarc.mit.edu/kansai/ch6/

Interview Questions (Spreadsheet) Clips (Spreadsheet) Interviewees (Spreadsheet)

120 Clip, Interviewee, and Question total.

sorted by: QuestionID; then by... • ○ grouped as sorted

1.

01. 何才か (How old are you?)		
Difficulty:	1	**Interviewee**
Degree of Kansai-ben	1	タカシ (Takashi)(M) under 10 Nephew Student Shiga

2.

01. 何才か (How old are you?)		
Difficulty:	1	**Interviewee**
Degree of Kansai-ben	2	アキラ (Akira)(M) 30s-3.late Brother Architect and Teacher Shiga and Osaka

Type

- 46 ✓ Clip
- 36 ✓ Interviewee
- 38 ✓ Question

Interview Question

- 16 ✓ 01. 何才か (How old are you?)
- 3 ✓ 02. 学校が好きか (Do you like school?)
- 2 ✓ 03. 好きな／嫌いな科目は何か (What is your favorite / least favorite subject?)
- 3 ✓ 04. 担任の先生は誰か (Who is the teacher in charge of your class?)

Interviewee Name

- 9 ✓ サヤサ (Sayasa)
- 3 ✓ アキラ (Akira)
- 8 ✓ アユミ (Ayumi)
- 1 ✓ タカヤマさん (Takayama-san)
- 1 ✓ ウチダさん (Uchida-san)
- 1 ✓ ハセガワさん (Hasegawa-san)
- 1 ✓ マツダさん (Matsuda-san)

Interviewee Gender

- 22 ✓ F
- 24 ✓ M

Interviewee Age

- 9 ✓ 10s-1.early
- 1 ✓ 20s-2.mid
- 3 ✓ 20s-3.late
- 5 ✓ 30s-1.early
- 5 ✓ 30s-3.late

Done

38

someone is planning a wedding using Exhibit

39

presentations
company members
software tools
restaurants
3 recipes
radio albums
installed fonts
hotels near a dance event
dogs for adoption
lego sets
dances, costumes, performances
breweries and distilleries
kansai dialect field study data
wedding attendees

40

presentations
company members
software tools
restaurants
3 recipes
radio albums
installed fonts
hotels near a dance event
dogs for adoption
lego sets
dances, costumes, performances
breweries and distilleries
kansai dialect field study data
wedding attendees

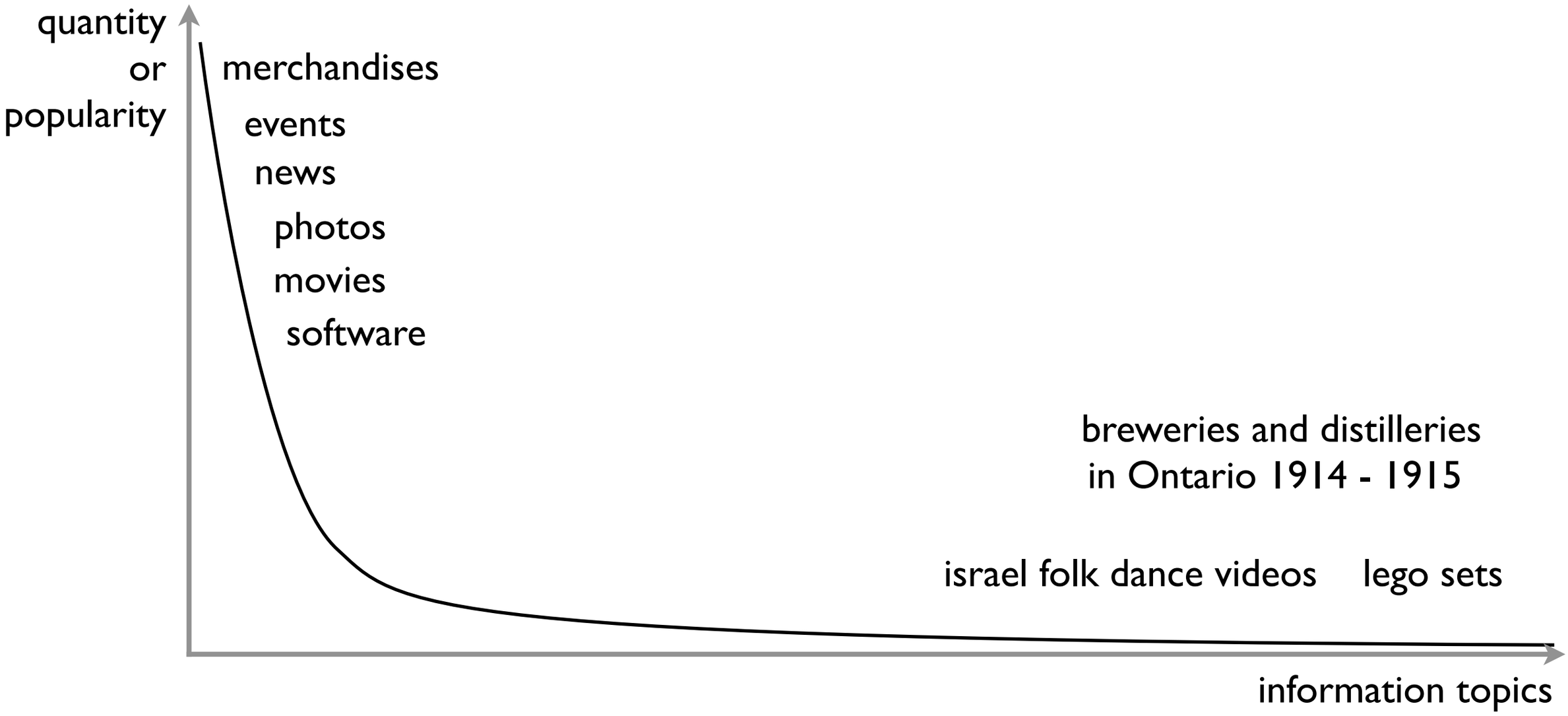
If Semantic Web researchers were to build a web site with data, what topic would the data be about?

41

scientific papers

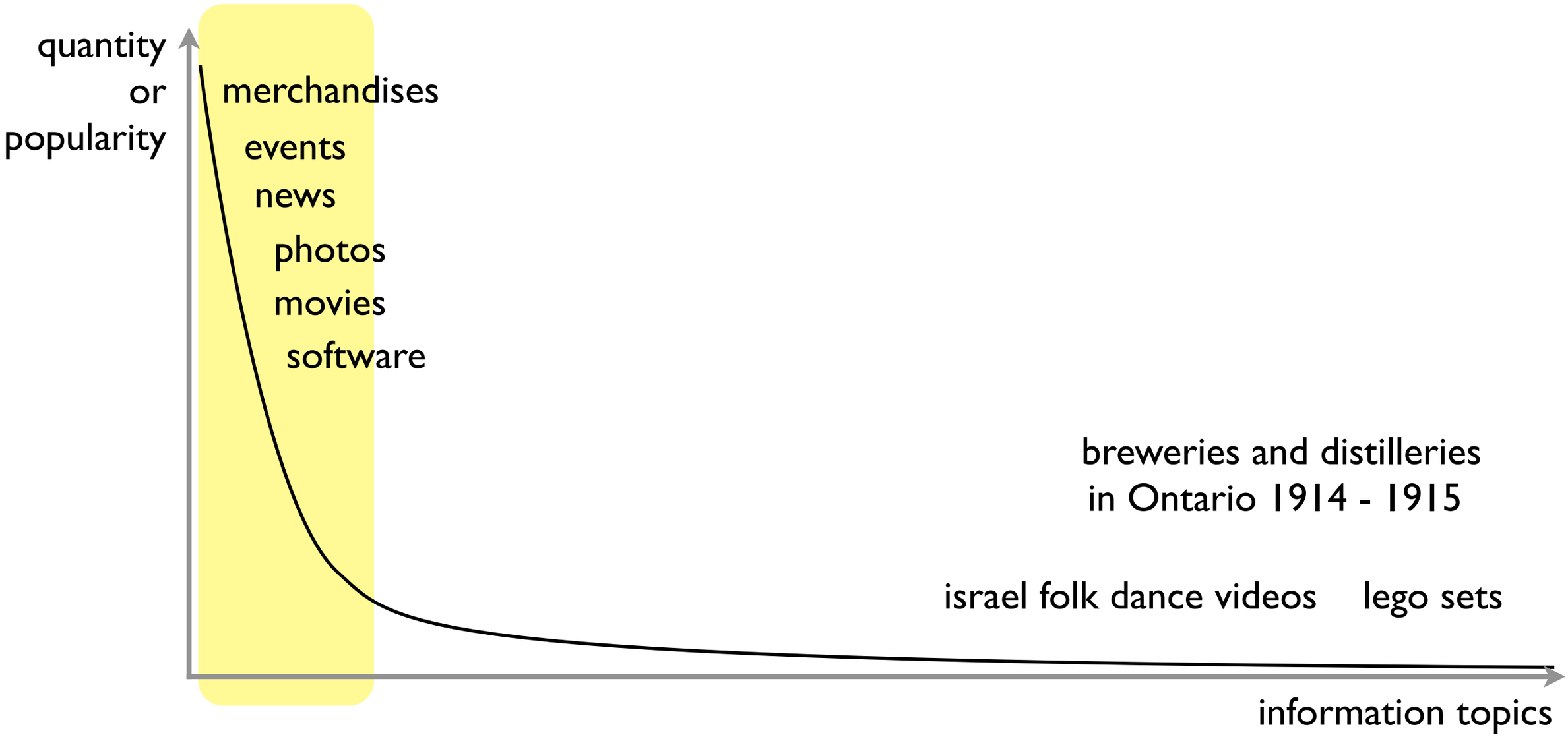
42

The Long Tail



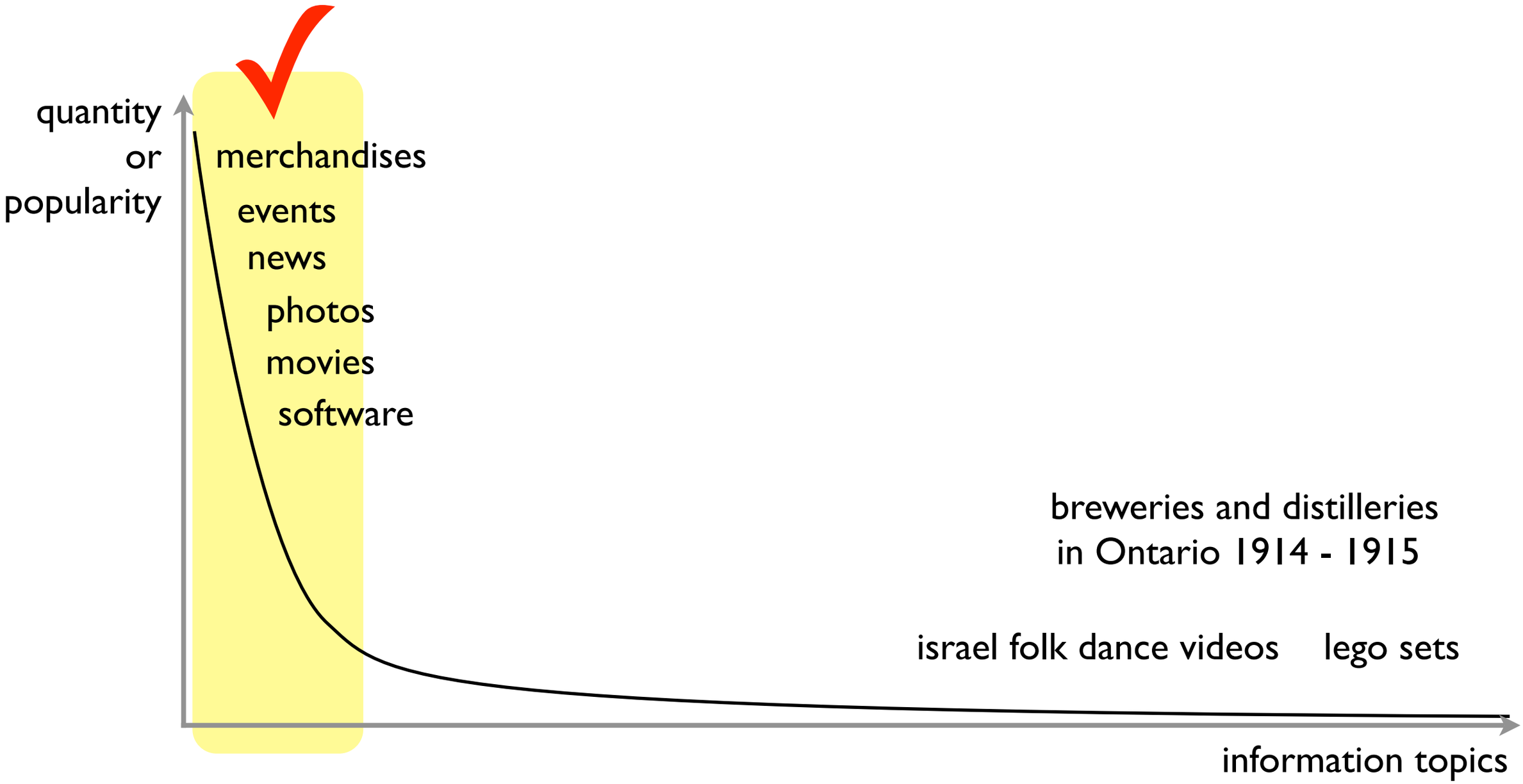
43

The Long Tail



43

The Long Tail



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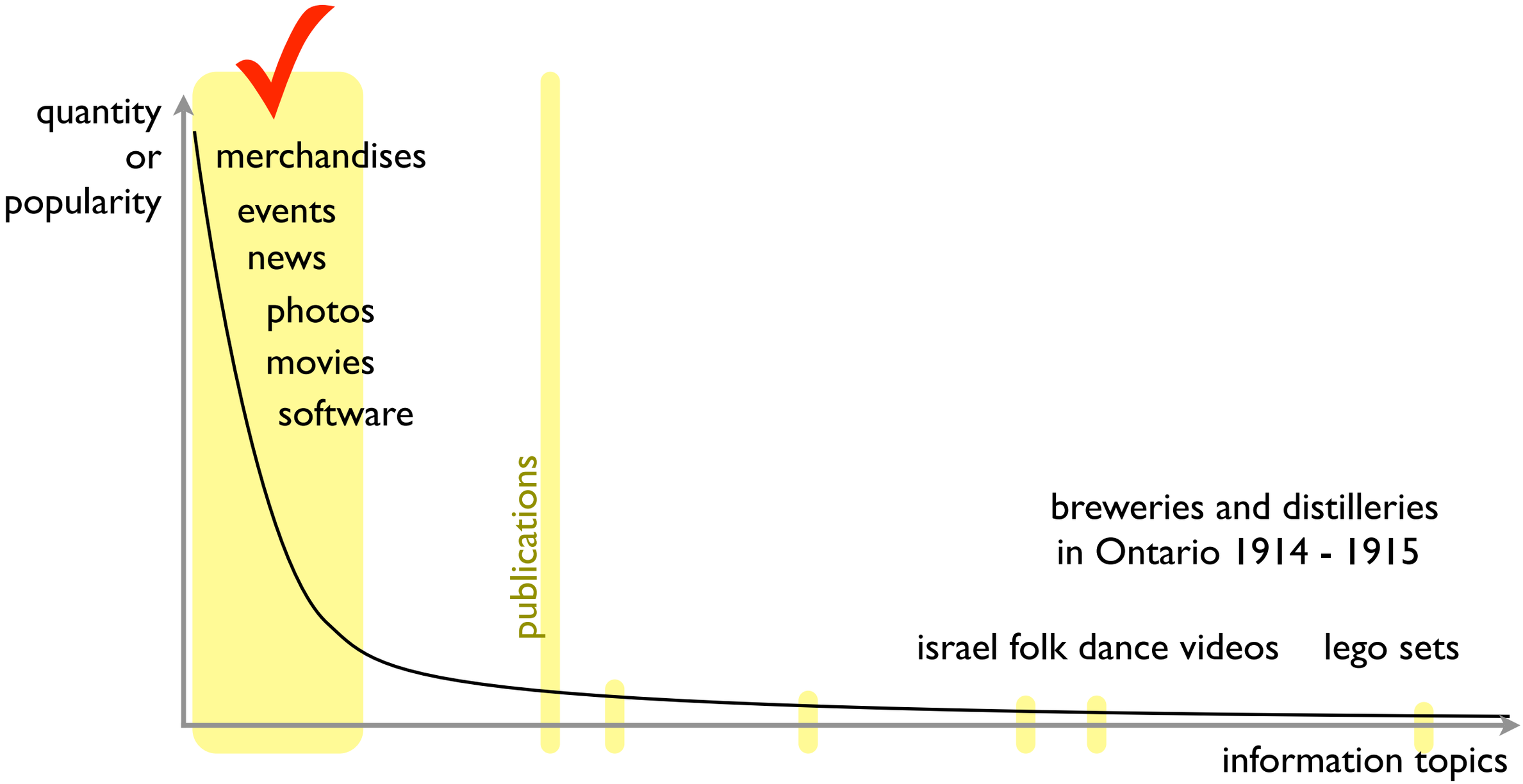
The Long Tail



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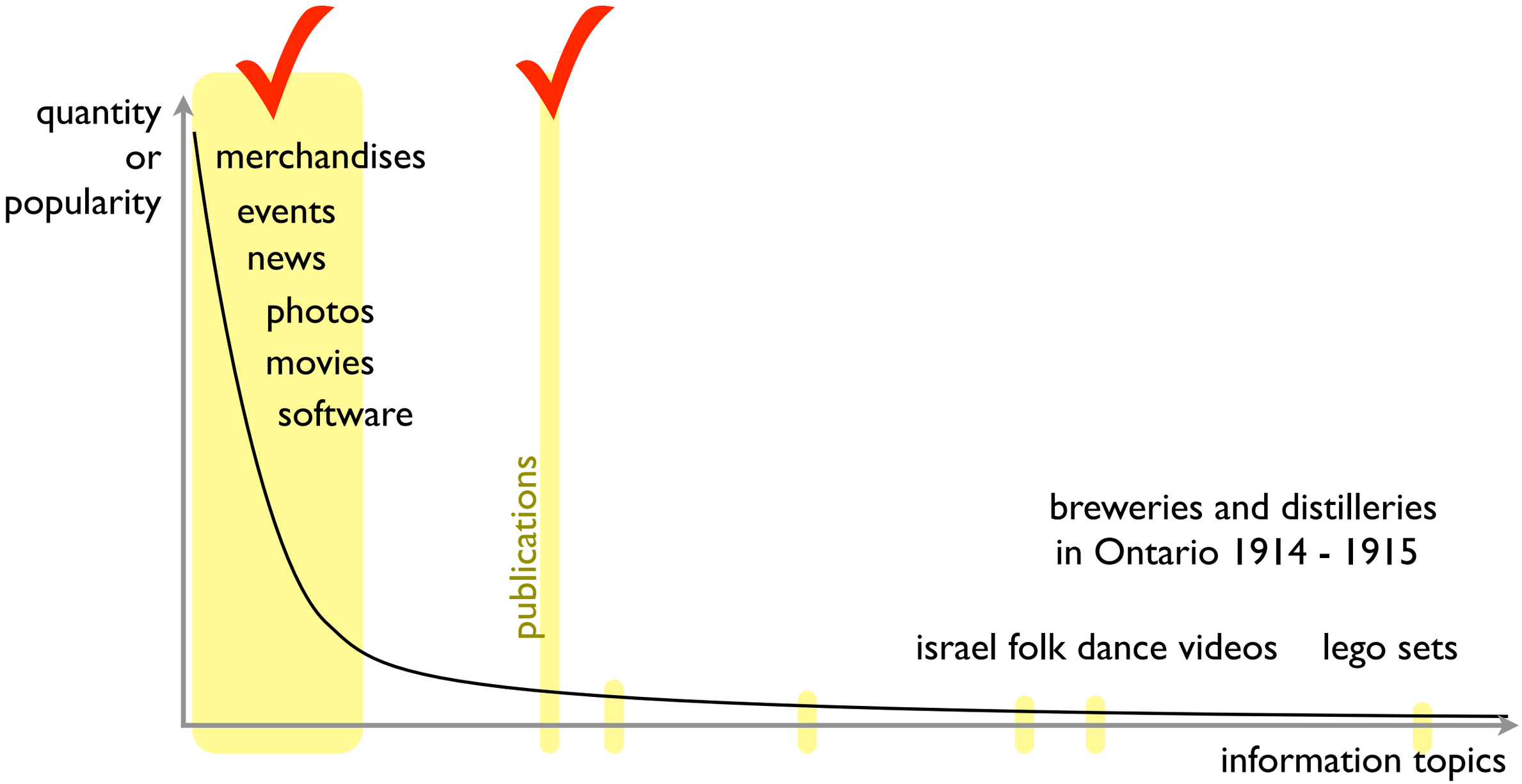
The Long Tail



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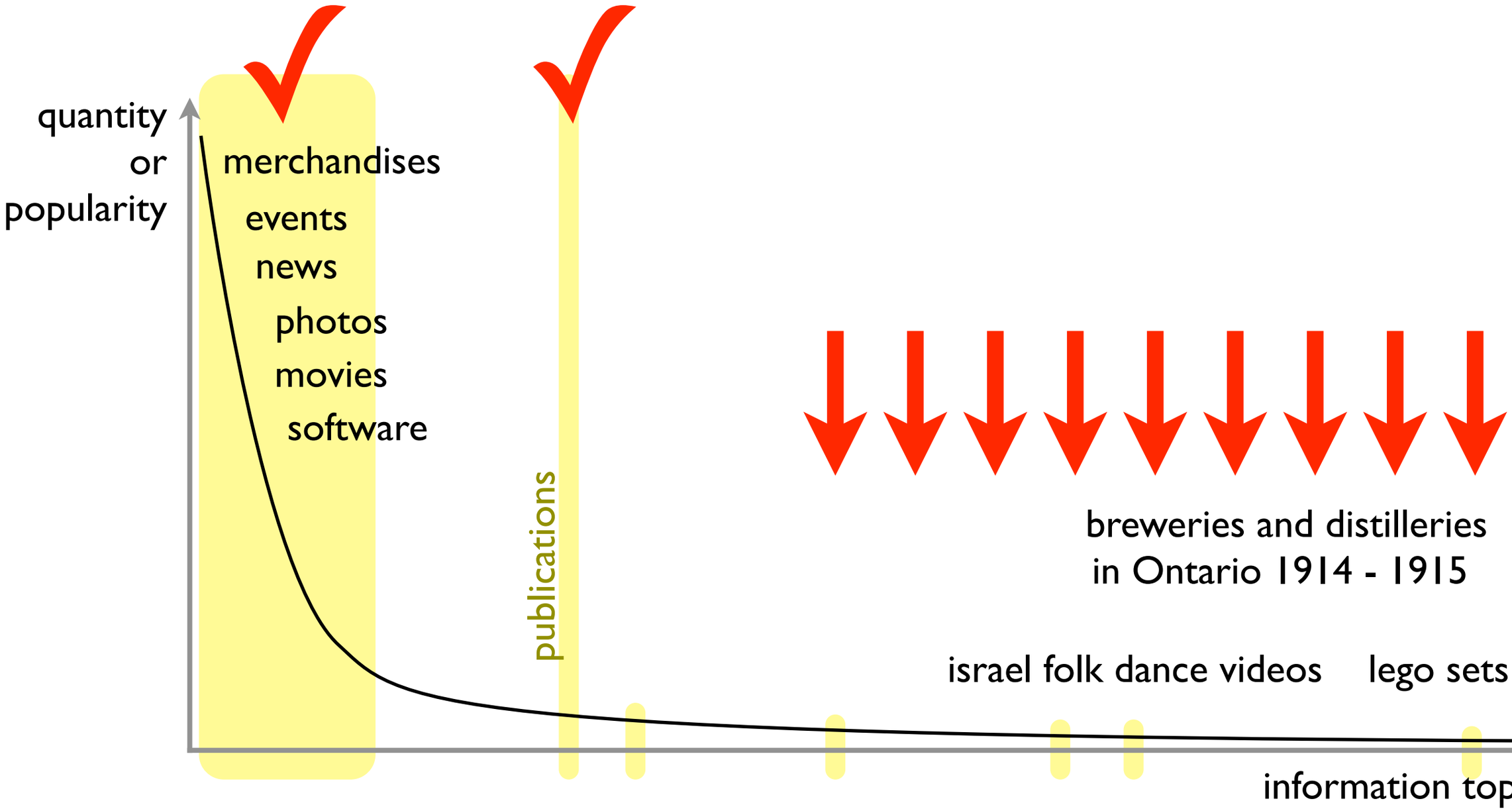

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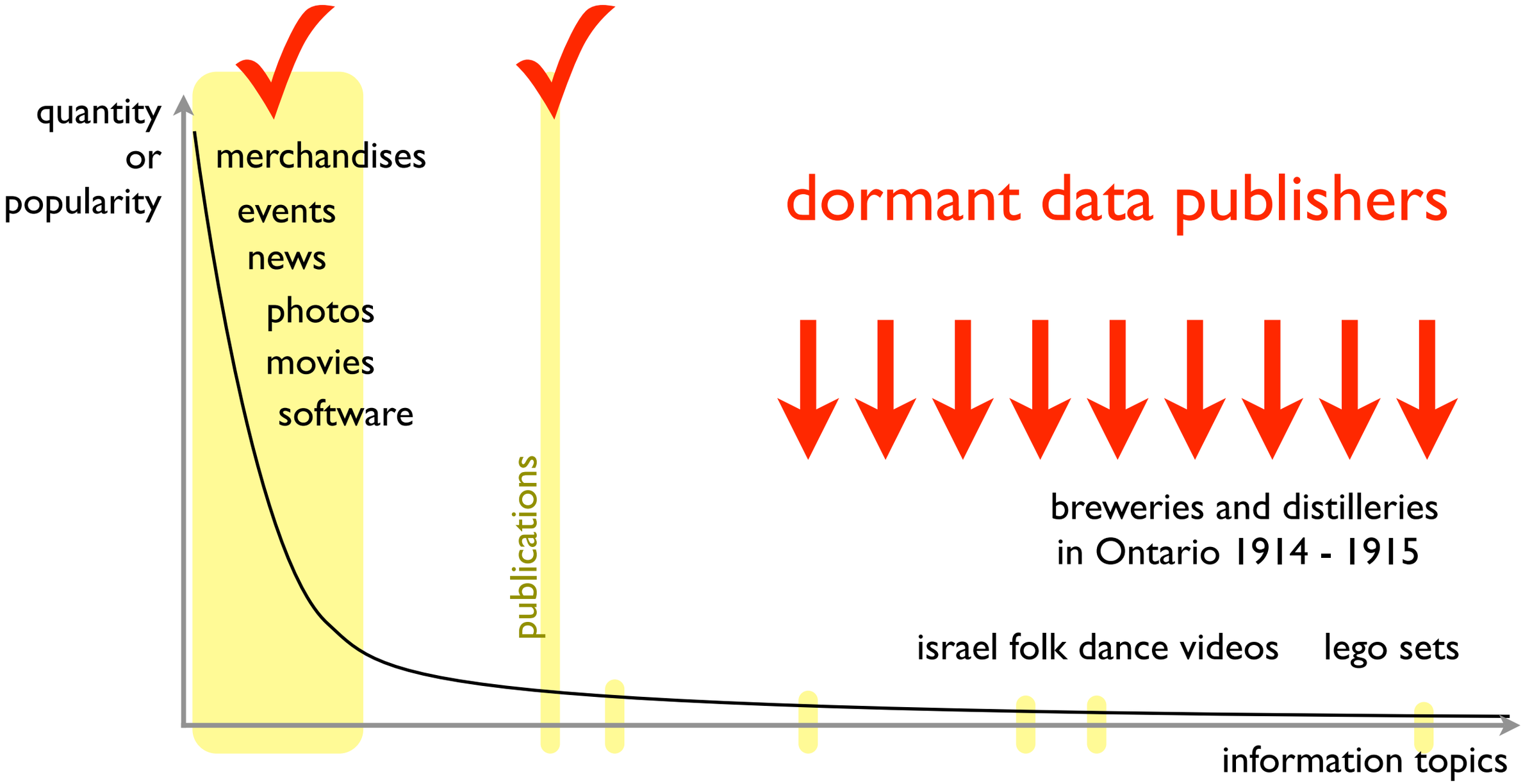
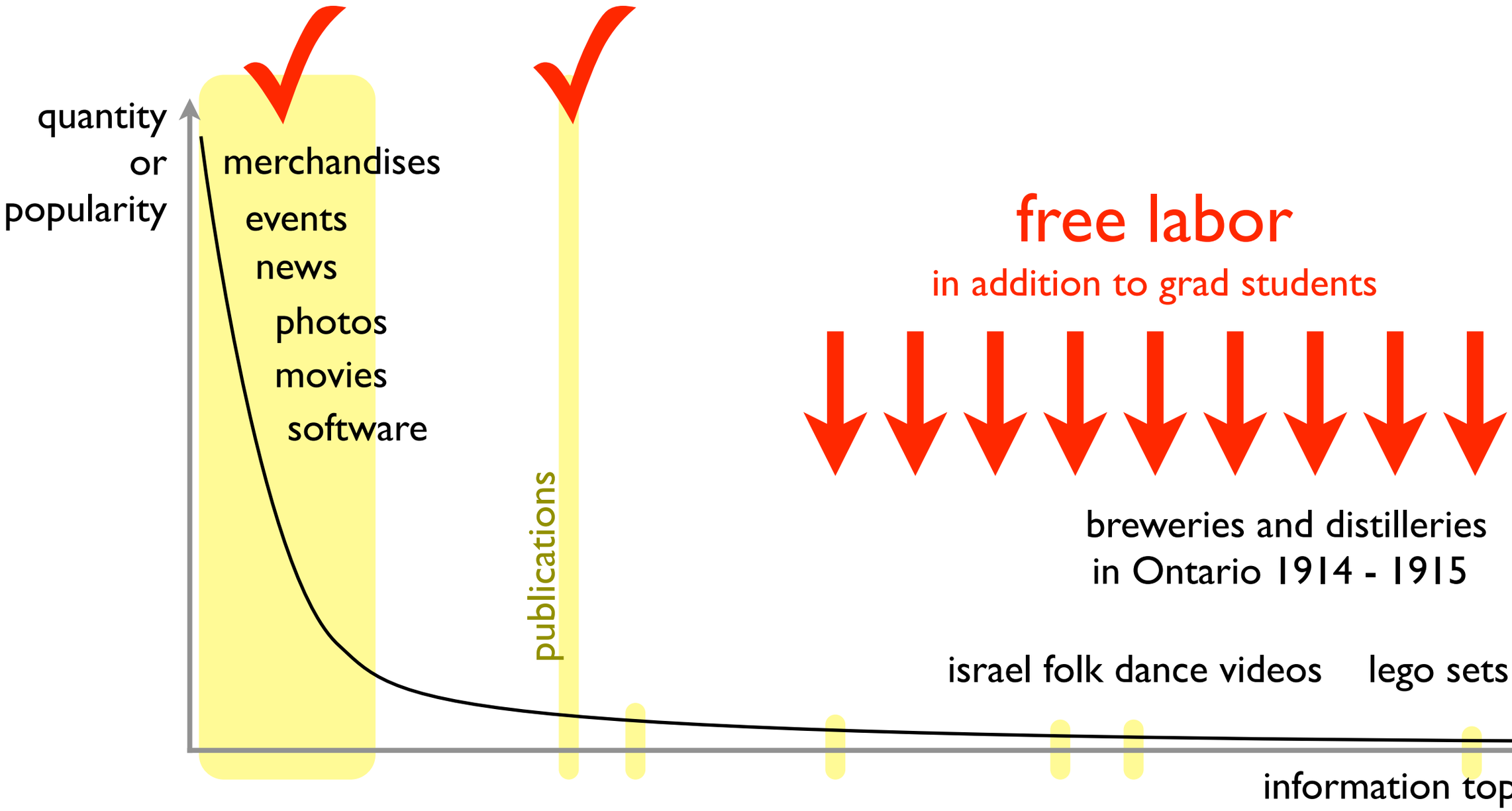


43

The Long Tail



43

MyPipeline ::: One-Pot Wonders

Back Forward Reload Stop Home http://www.mypipeline.co.uk/projects Search Bookmarks

<<< BACK TO MYPIPELINE

3 Item total

Copy All

sorted by: Cuisine; then by... • ☑ grouped as sorted • ◯ show duplicates

Smoked Haddock flan

- *200g Smoked Haddock filets*
- *2 potatoes*
- *600ml milk*
- *2 eggs*
- *pie base*

Put the haddock in a saucepan with milk, pepper and thyme. Poach for 10 minutes and leave to cool. Beat the eggs and the fresh cream. Add cooking milk of the cooled haddock. Remove the skin and the stop the haddock. Cut the potatoes into fine rondelles. Place the rondelles of potatoes onto the pie bottom, then add the haddock flakes. Whip the eggs with a touch of milk, then pour the egg on the fish and potatoes. Cook at 180deg C for 40 minutes in the oven.

Sweet Sausage and Cabbage Fettucine

- *Marks & Spencer Apple and Pork sausages (4)*
- *Half an onion*
- *Half a Savoy cabbage*
- *200ml pouring cream*
- *fettuccine (250g)*

First julienne your vegetables and cut your sausages into small (half-inch) chunks. Boil some water for the fettuccine, and depending on whether you have fresh fettuccine or not, start to boil the pasta. Then heat up a pan until hot and add the sausages. Cook with the onions until both are crispy and golden. Add the cabbage when the onions and sausage have been cooking about 7 minutes. Finally add the cream when the cabbage begins to soften. Stir in the mixture into the boiled fettuccine and serve with a baguette.

Cuisine

1 ✓ French
1 ✓ Italian
1 ✓ Swedish

Easiness

1 ✓ moderate
2 ✓ very easy

Time

1 ✓ 1 hour
1 ✓ 20min
1 ✓ 30min

Done

44

MyPipeline ::: One-Pot Wonders

Back Forward Reload Stop Home http://www.mypipeline.co.uk/projects Search Bookmarks

<<< BACK TO MYPIPELINE

3 Item total

Copy All

sorted • show duplicates

Cuisine

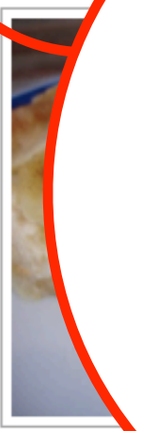
1 French
1 Italian
1 Swedish

Easiness

1 moderate
2 very easy

Time

1 1 hour
1 20min
1 30min



addock flan

oked Haddock filets

a saucepan with milk, pepper and
0 minutes and leave to cool. Beat the
cream. Add cooking milk of the cooled
the skin and the stop the haddock. Cut
ine rondelles. Place the rondelles of
pie bottom, then add the haddock flakes.
th a touch of milk, then pour the egg on
SO atoes. Cook at 180deg C for 40 minutes in

eet Sausage and Cabbage Fettucine

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Done

44

MyPipeline ::: One-Pot Wonders

Back Forward Reload Stop Home http://www.mypipeline.co.uk/projects Search Bookmarks

<<< BACK TO MYPIPELINE

3 Item total

Copy All

orted • show duplicates

ddock flan

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1 Italian
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1 moderate
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Time

1 1 hour
1 20min
1 30min

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have fun!

Done

44

MyPipeline ::: One-Pot Wonders

Back Forward Reload Stop Home http://www.mypipeline.co.uk/projects Search Bookmarks

<<< BACK TO MYPIPELINE

3 Item total

Copy All

Cuisine
1 French
1 Italian
1 Swedish

ddock flan
oked Haddock filets

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the skin and the stop the haddock. Cut
ine rondelles. Place the r
pie bottom, then add the
th a touch of milk, then pour the egg on
atoes. Cook at 180deg C for 40 minutes in

Easiness
very easy

reuse without scraping

veet Sausage and Cabbage Fettucine

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- *Half a Savoy cabbage*
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Time
1 1 hour
1 20min
1 30min

have fun!

Done

44

outline

✓problem: publishing data is too hard
✓demo: using Exhibit to publish data in 10 min
✓implementation: how Exhibit works
✓real world uses + discussion

- related work
- future work
- conclusion

45

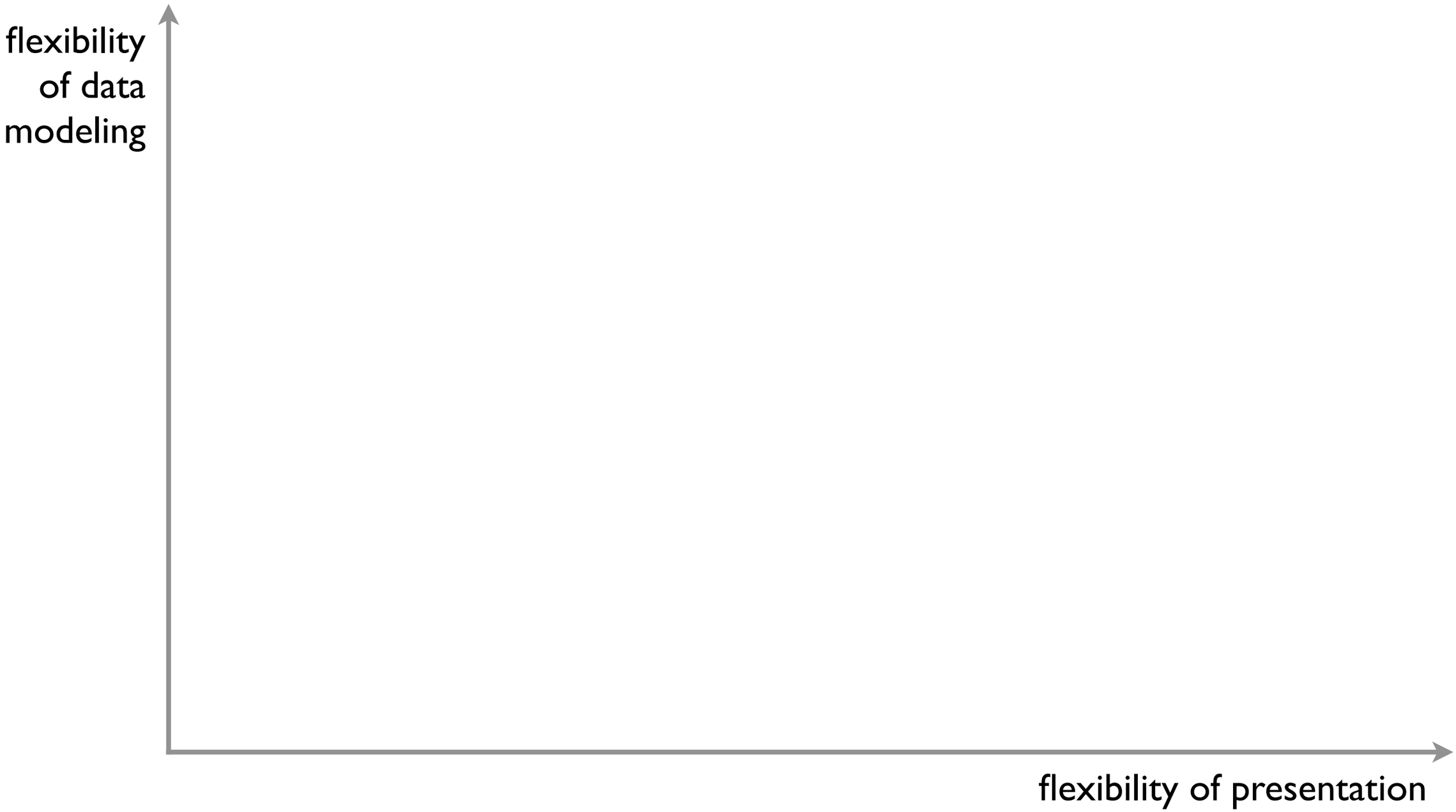
Related Work

46

Related Work

46

Related Work



46

Related Work

46

Related Work

circle size = amount of effort

46

Related Work

circle size = amount of effort

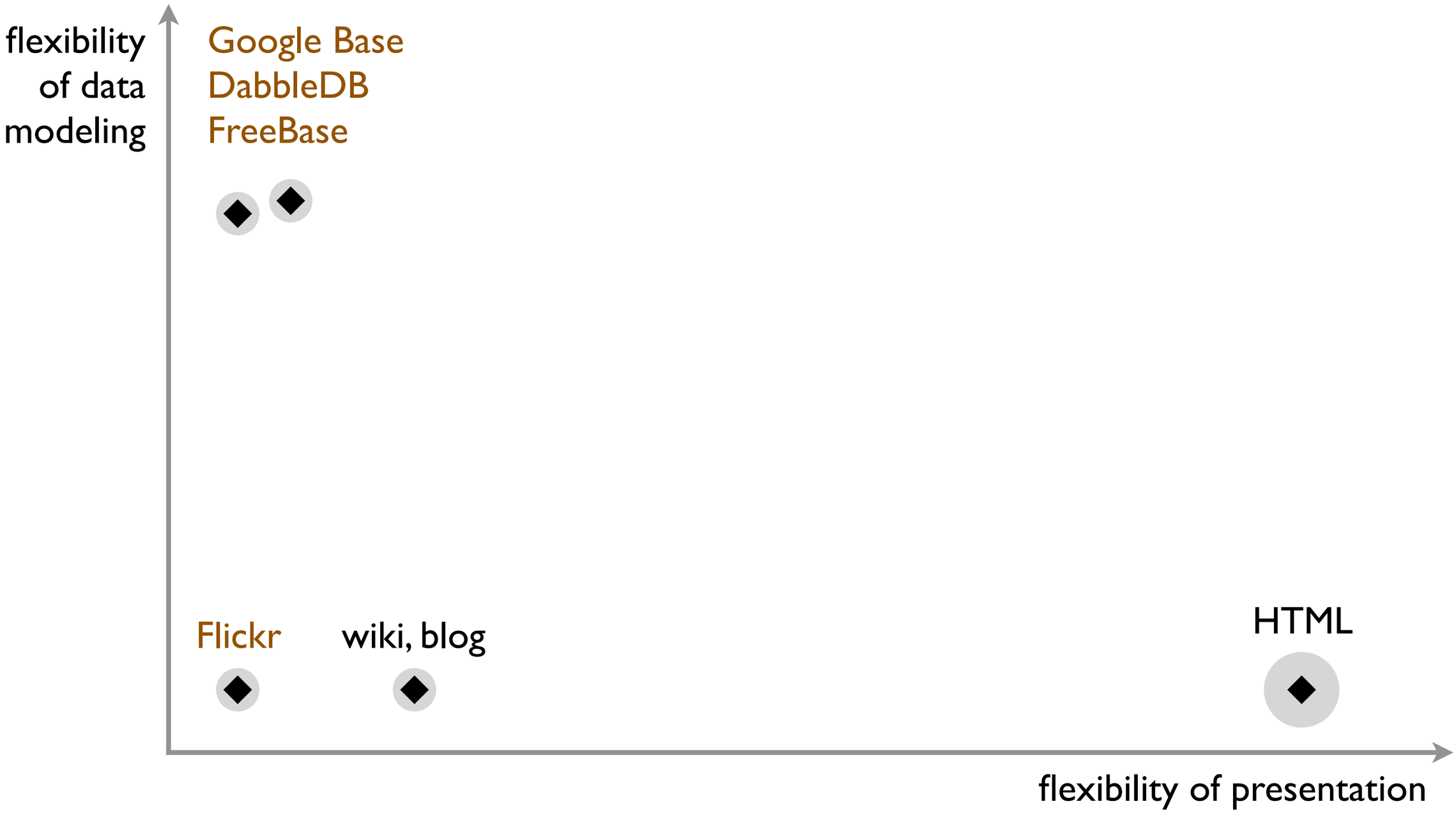
46

Related Work

circle size = amount of effort

46

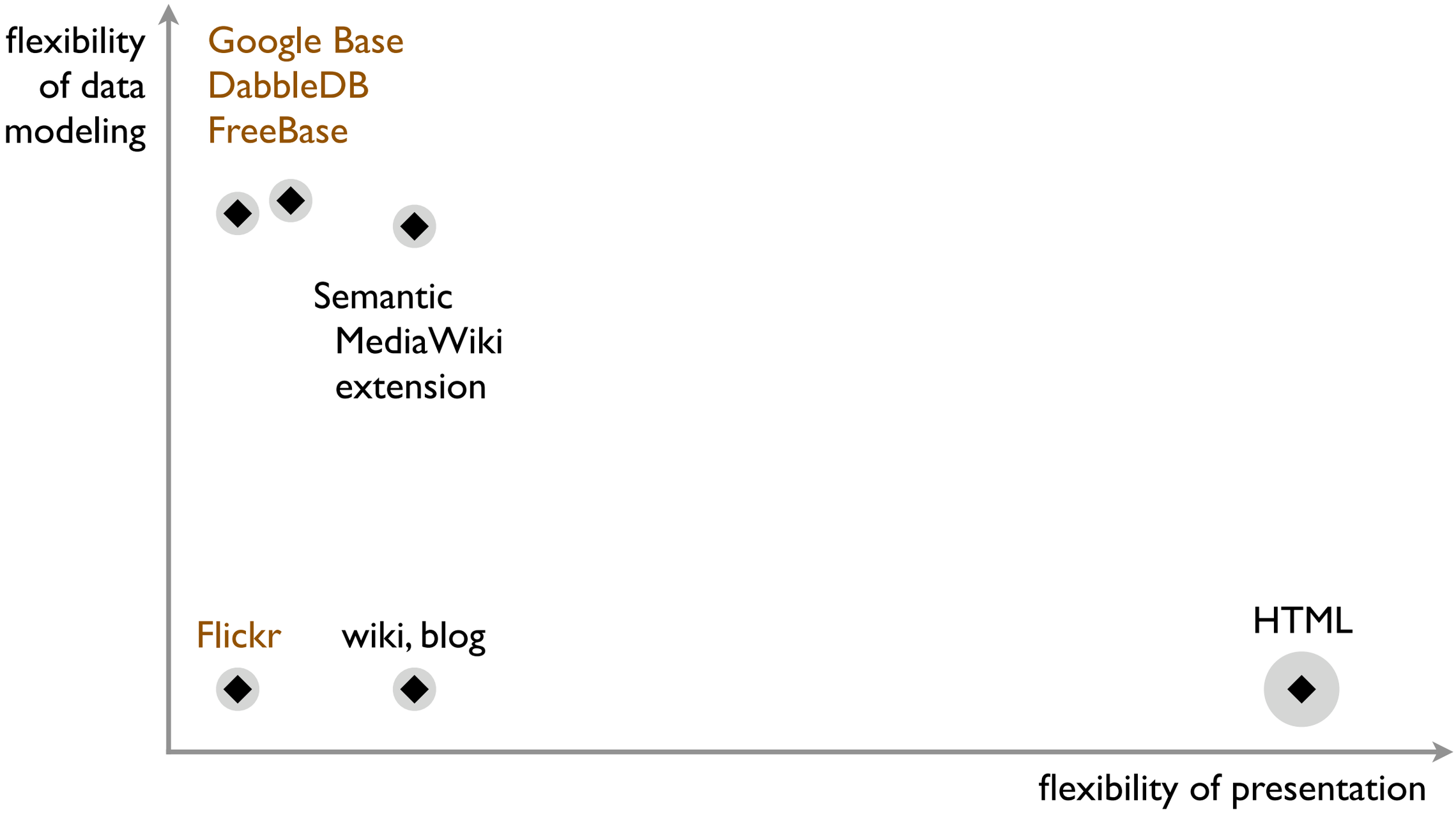
Related Work



circle size = amount of effort

46

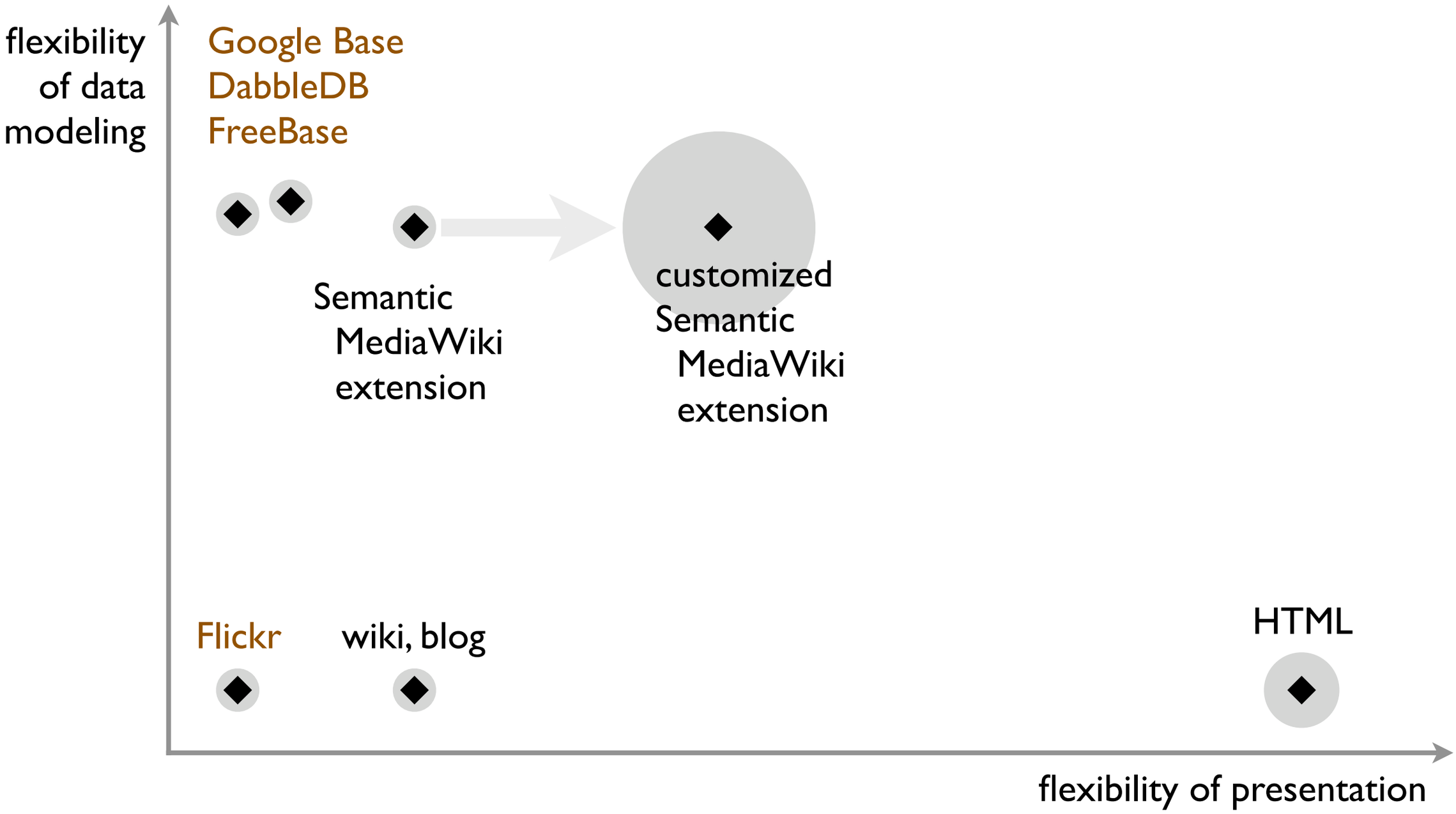
Related Work



circle size = amount of effort

46

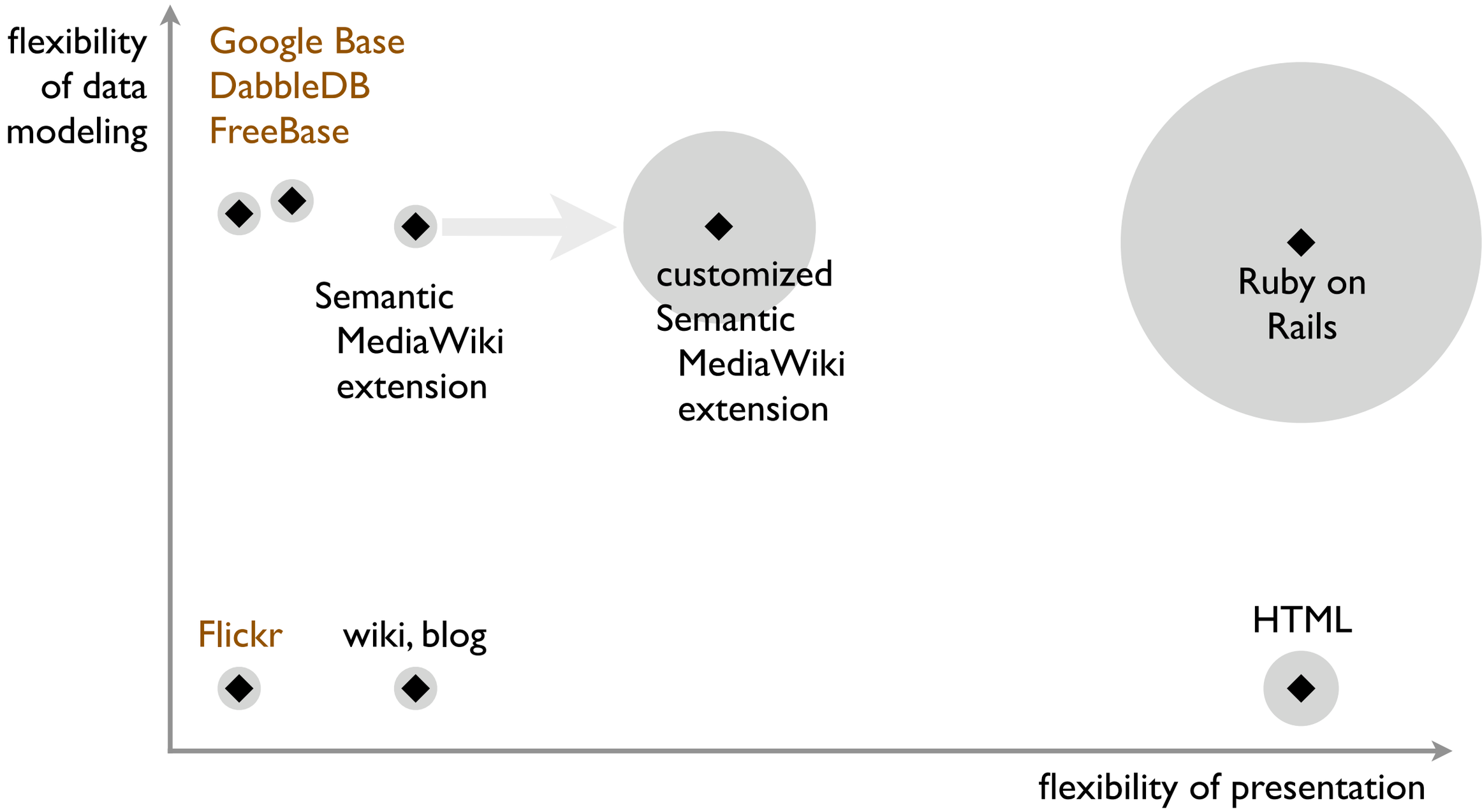
Related Work



circle size = amount of effort

46

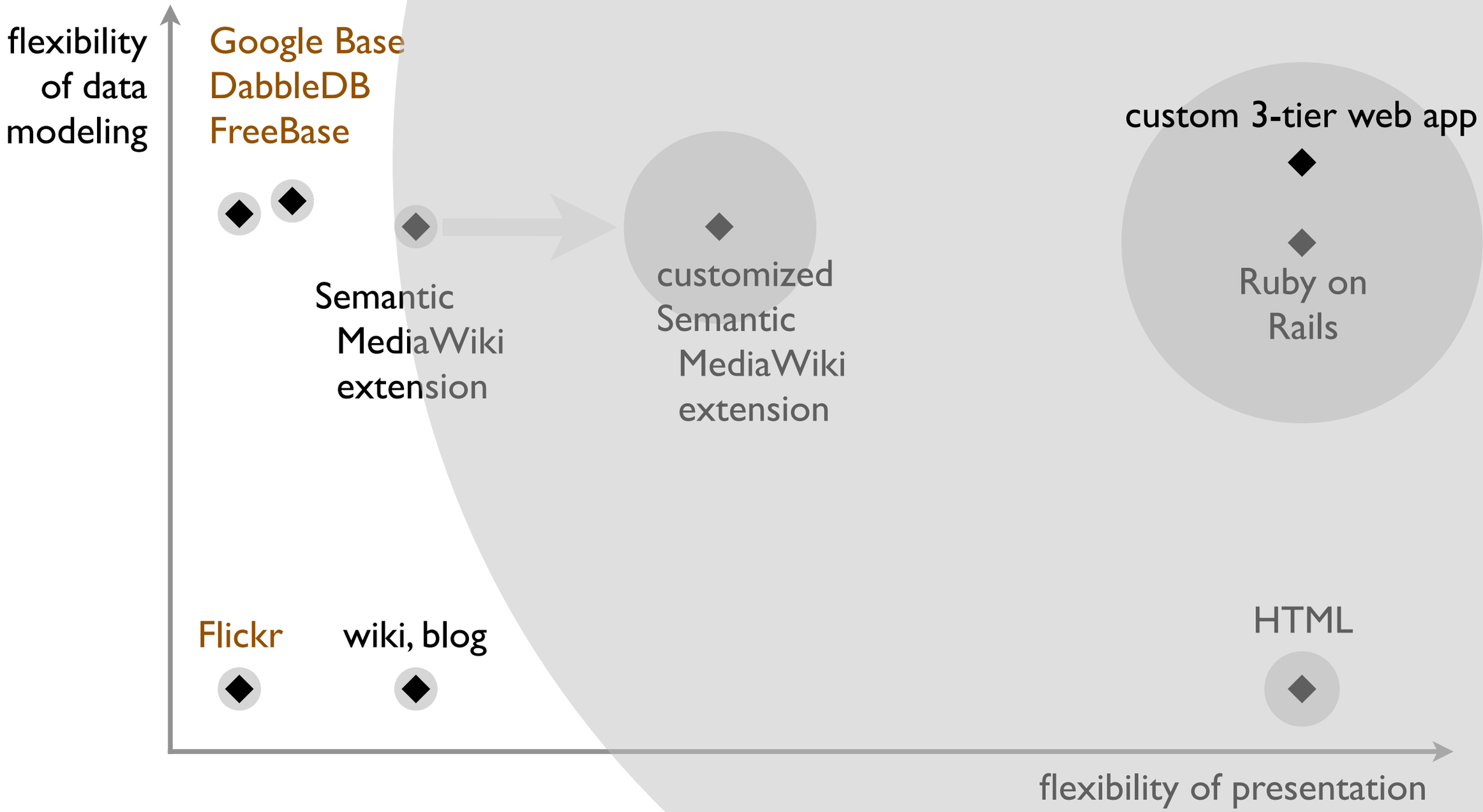
Related Work



circle size = amount of effort

46

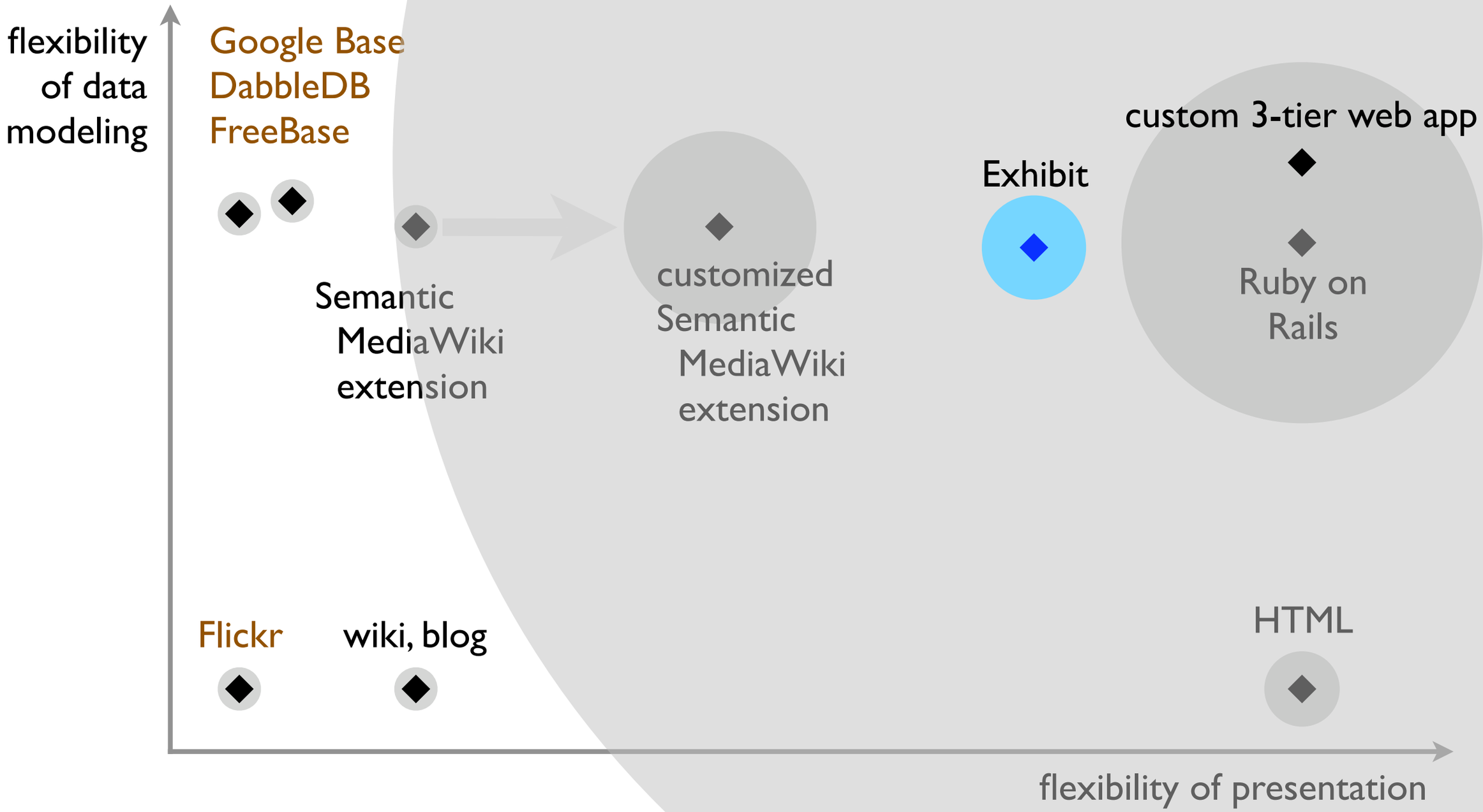
Related Work



circle size = amount of effort

46

Related Work



circle size = amount of effort

46

Related Work

data ownership

unstructured

personal	group	world
personal blog personal web space	wiki	Wikipedia
Exhibit DabbleDB	Semantic MediaWiki extension	Freebase Google Base
		DBPedia YAGO

structured

47

related work

- database in Javascript
  - TimBL's Tabulator
    - generic browsing interface
    - for data consumers to do mash-up
  - Exhibit
    - customizable publishing framework
    - for data publishers

48

future work

- feature requests
  - more views: calendar, histogram, ...
  - more flexible layouts
  - visual synchronization, e.g., color coding
  - value formats, e.g., $(6,000)
  - localization

- if there will be a lot of exhibits, let people...
  - search over them
  - merge them together

49

future work

- authoring interface
  - HTML got us so far...
  - WYSIWYG editors got us further
- Exhibit will get us so far...
- A front-end to Exhibit will get us further

50

conclusion

- many dormant data publishers in the long tail
    - ... with few resources to publish data

- Exhibit
    - answer real world needs of publishing data
        - as easy and expressive as HTML
    - tap the free labor in the long tail
        - produce data that doesn't have to be scraped
        - build a Data Web representative of the Web

51

google for “exhibit”