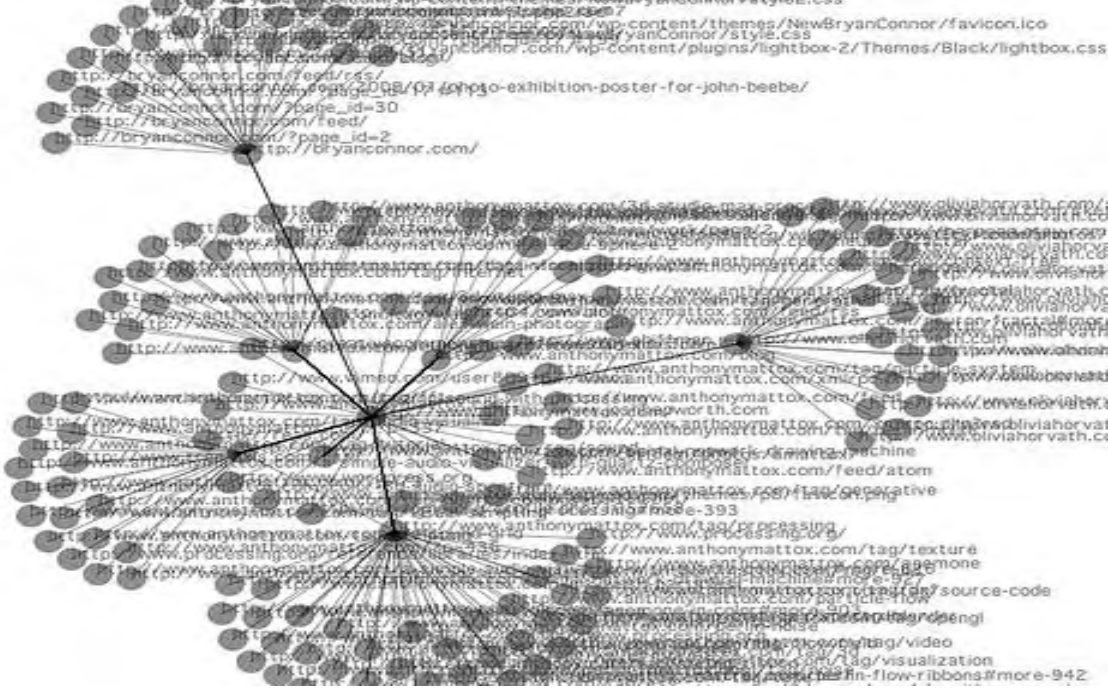


# How the MIT Libraries use the Semantic Web

MacKenzie Smith
Associate Director for Technology, MIT Libraries

 November, 2009


# The Simile Project

Semantic Interoperability of Metadata In unLike Environments

 November, 2009

# Problem: Data Heterogeneity

Billions of metadata creators

Everybody collects something

Thousands of metadata schemas

How can we integrate all that data to provide new library services over it?

# Simile Goals

- Build tools for *discovering and navigating* digital resources on the Web
- Data architecture *scalable* to the entire Web
- *Interoperable* across systems, institutions, domains

# The Simile Approach

Identify common problems
Cast a wide net and be opportunistic
Deliver working (open source software) solutions
- Get them adopted
- Learn from their use
- Build communities around them

Leverage RDF, Semantic Web technology

# Simile Tool Chain

- Babel
- Exhibit
- Fresnel
- Gadget
- Longwell
- Piggy Bank
- RDFizers
- Referee
- Solvent
- Semantic Bank
- Timeline
- Welkin
- …

# Data Management Tools

## Gadget

XML inspector to analyze large XML data files

## RDFizers

tools for converting various data formats into RDF with XSLT

## Solvent

Firefox screen scraper to convert HTML into RDF

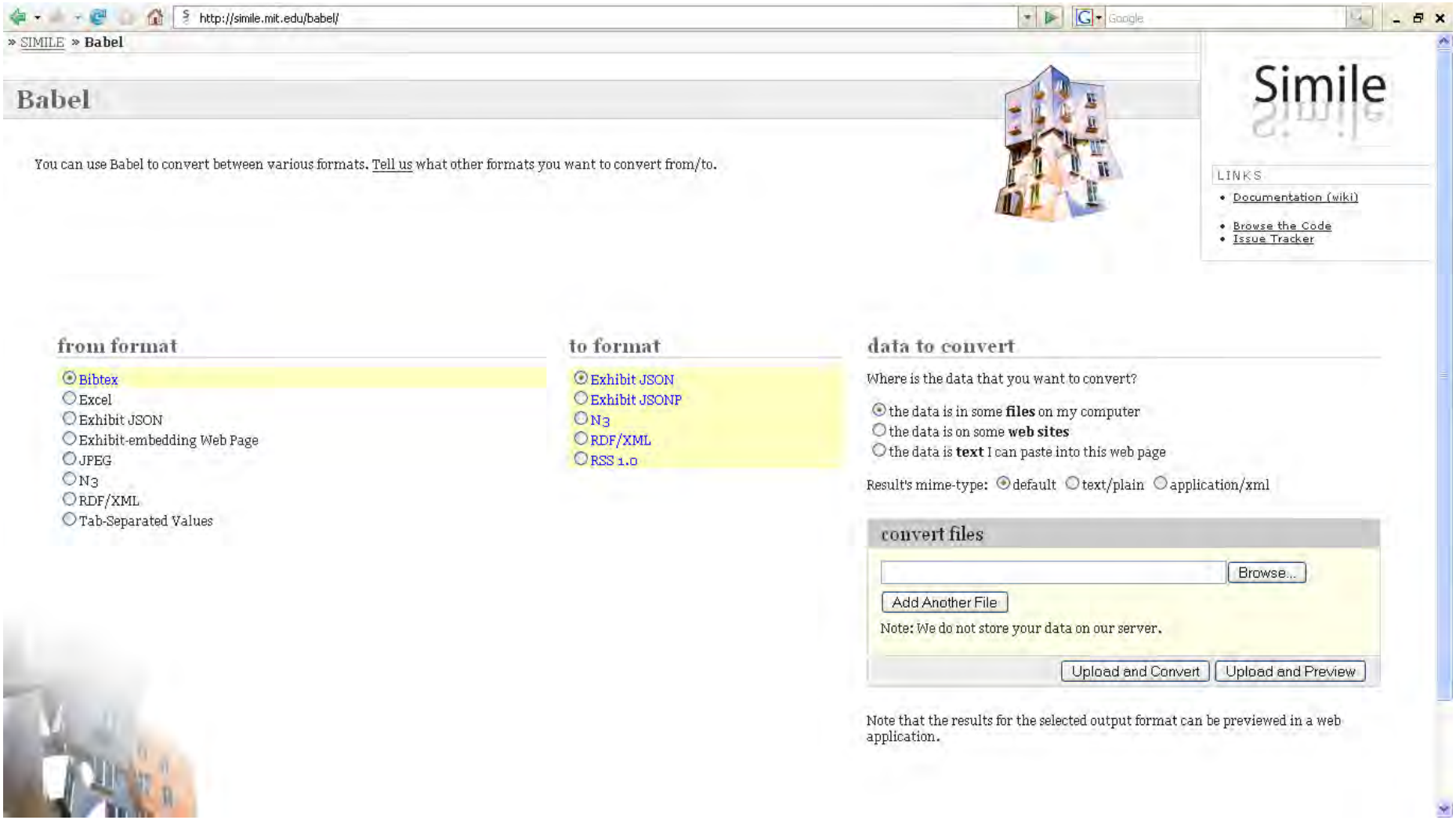
## Babel

Web service to convert between various formats

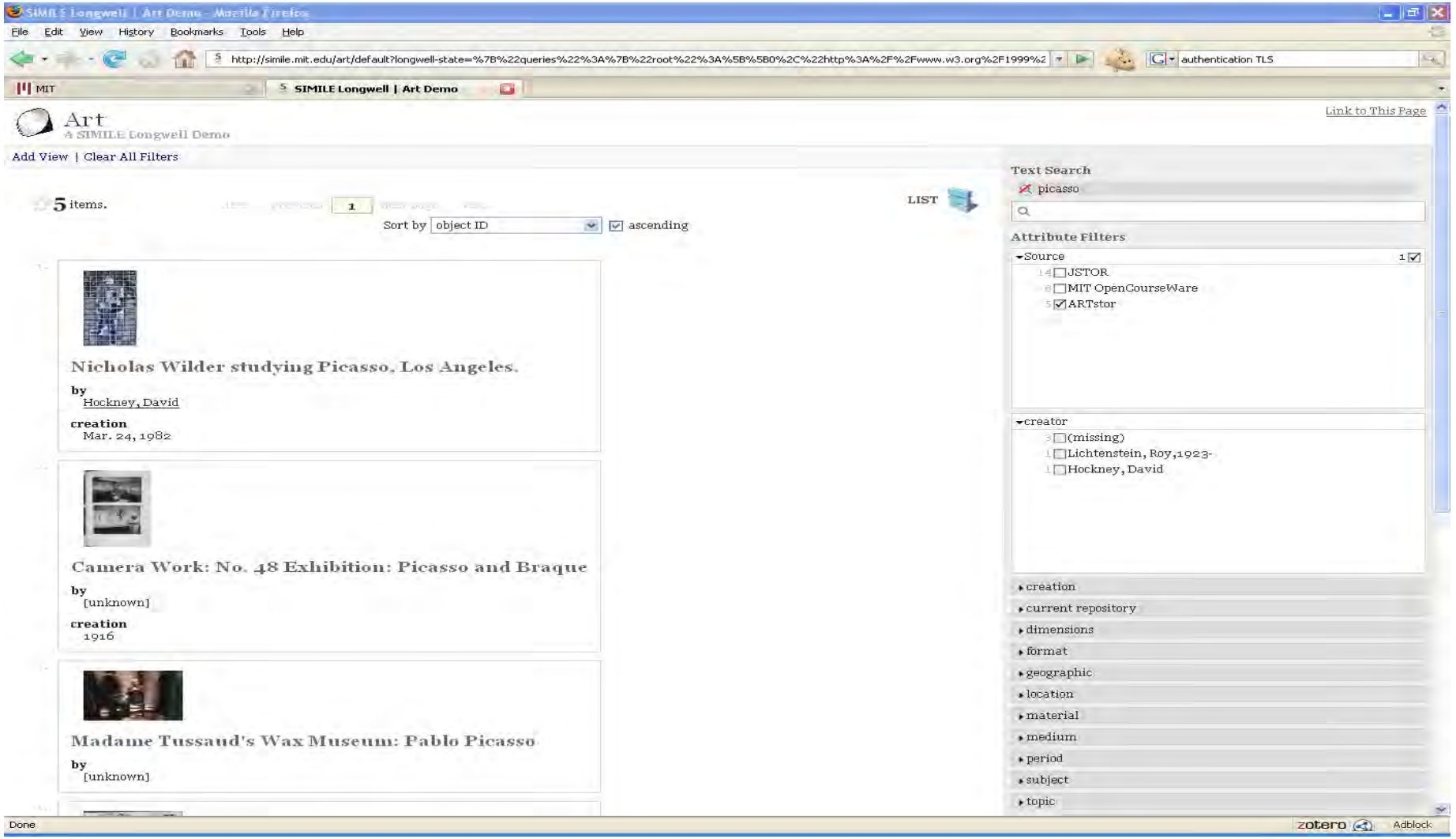
## Banach

batch operators to transform RDF statements

# Babel Data Conversion Web Service



# Banach Pre-processor generates OWL equivalences



# Data Browsing Tools

## Longwell

web-based, configurable faceted browser for RDF data

## Seek

Faceted browsing in Mozilla Thunderbird for email browsing

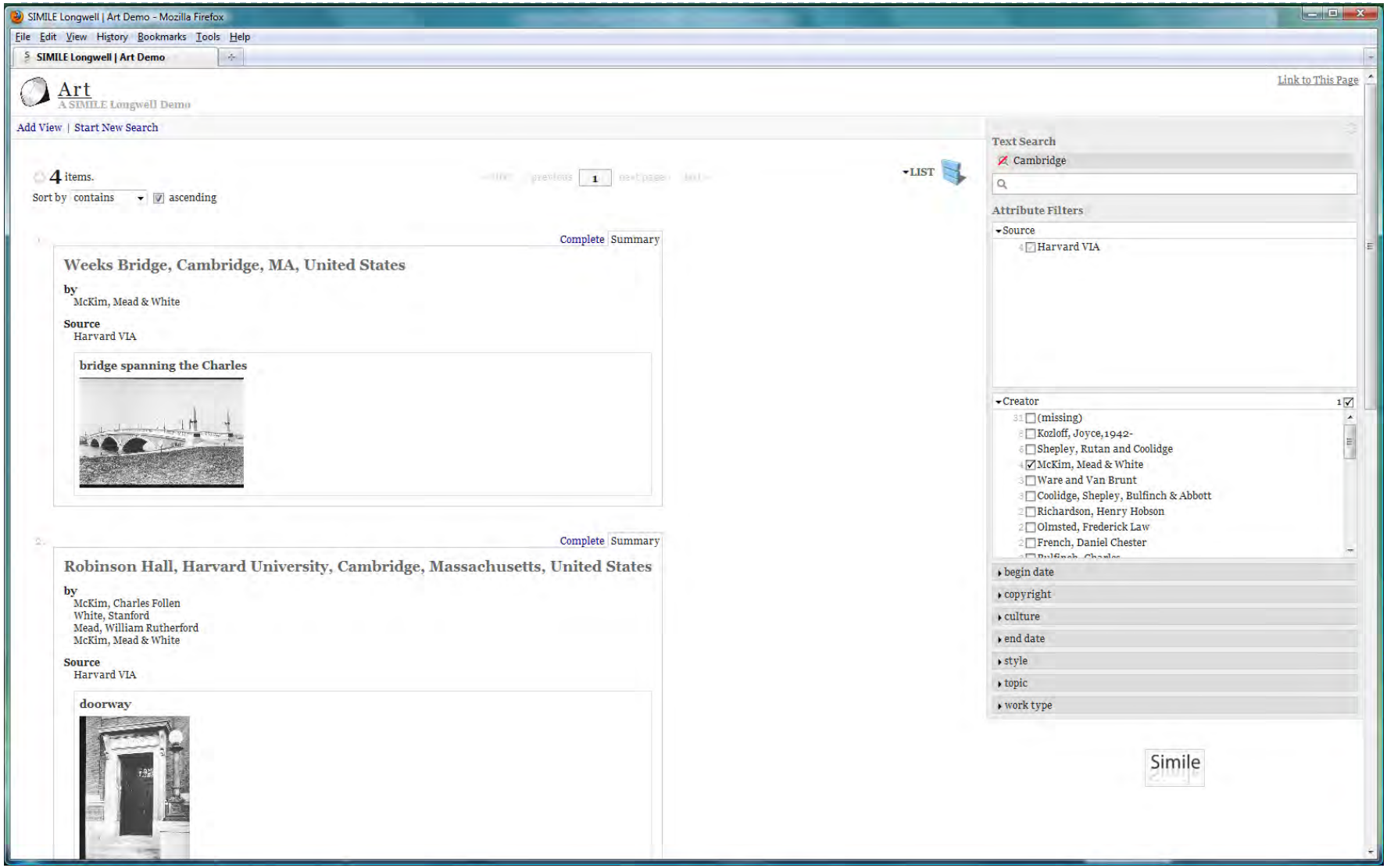
## Timeline

AJAX widget for visualizing time-based events

## Exhibit

data publishing framework for indexing, visualizing JSON/RDF data

# Longwell



# The dynamicist's workbench: I automatic preparation of numerical experiments

BIBLIOGRAPHY

Massachusetts Institute of Technology Artificial Intelligence Laboratory. & Abelson, Harold & Sussman, Gerald Jay

Massachusetts Institute of Technology, Artificial Intelligence Laboratory
Massachusetts Institute of Technology, Artificial Intelligence Laboratory]

38 p. : ill. ; 28 cm.

NOTE

Caption title.

Includes bibliographical references (p. 37-38).

Harold Abelson and Gerald Jay Sussman.

Supported by Advanced Research Projects Agency of the Dept. of Defense under an Office of Naval Research contract. N00014-86-K-0180

PART OF SERIES

AI memo ; 955

MITLibraries

## Hal Abelson

| | |
|---|---|
| **firstName** | Hal |
| **img** |  |
| **mbox** | hal@mit.edu |
| **office** | 32-386H |
| **phone** | 253-5856 |
| **surname** | Abelson |
| **Title** | Hal Abelson |
| **type** | FacultyMember<br>Person<br>(focus on these values) |
| **workInfoHomepage** | http://www.csail.mit.edu/biographies/PI/bioprint.php?PeopleID=78 |

**Creator**

Type here to filter

Abelson, Harold (1)
Massachusetts_Institute_of_TechnologyArtificial_Intelligen (1)
Sussman, Gerald Jay (1)

**Language**

Type here to filter

eng (1)

**Publisher**

Type here to filter

Massachusetts_Institute_of_Technology_Artificial_Intellige (1)

**Genre**

Type here to filter

bibliography (1)

**Description**

# MIT Libraries

A SIMILE Demo

**1 filter criterion**

- **Text Search:** "abelson" (remove)

33 items

« previous 1 2 3 4 next »

## Software Engineering for Web Applications, Fall 2003

MITOPENCOURSEWARE
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

**DESCRIPTION**

Computation over unreliable and anonymous protocols such as the World Wide Web. Problems of persistence, concurrency control, transactions, and transactions across multiple servers. The relational database management system as a tool for attacking these problems. Students work in small mentored teams on diverse projects. From the course home page: Course Description 6.171 is a course for students who already have some programming and software engineering experience. The goal is to give students some experience in dealing with those challenges that are unique to Internet applications, such as: concurrency; unpredictable load; security risks; opportunity for wide-area distributed computing; creating a reliable and stateful user experience on top of unreliable connections and stateless protocols; extreme requirements and absurd development schedules; requirements that change mid-way through a project, sometimes because of experience gained from testing with users; user demands for a multi-modal interface.

**instructional designer:**
Greenspun, Philip
**Contributor:**
Abelson, Harold
Greenspun, Philip
**Level:**
Undergraduate
**Location:**
[external link]

**SUBJECT AND KEYWORDS**

Internet, software engineering, Web, concurrency, load, security risks, wide-area distributed computing, Web services, user experience, usability, development schedules, multi-modal interface, WAP, online learning community

## Ethics and Law on the Electronic Frontier, Spring 2002

MITOPENCOURSEWARE
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

**DESCRIPTION**

The interaction between law, policy, and technology as they relate to the evolving controversies over control of the Internet. Topics include: intellectual property and

**instructional designer:**
Abelson, Harold
**Contributor:**
Jonathan Zittrain
**Level:**

Type here to search

**type**
Type here to filter
Publication (28)
Course (2)
Entity (1)
FacultyMember (1)
Person (1)
Text (1)

**Resource Type**
Type here to filter
"Thesis" (11)

**Publisher**
Type here to filter
"Massachusetts Institute of Technology" (11)

**Contributor**
Type here to filter
"Massachusetts Institute of Technology. Dept. of Electrical Engineering and Computer Science." (7)
"Harold Abelson." (4)
"Massachusetts Institute of Technology. Dept. of Electrical Engineering and Computer Science" (4)
"Hal Abelson." (2)
"Daniel Weitzner" (1)

**Subject and Keywords**

## Student Science Training Program in Mathematics, Physics and Computer Science

**Resource**
[external link]

**Creator**
Abelson, Harold
diSessa, Andy

**Date**
1976-09-01
2004-10-04T14:47:51Z

**Description**

During the summer of 1976, the Massachussetts Institute of Technology Artificial Intelligence Laboratory sponsored a Student Science Training Program in Mathematics, Physics and Computer Science for high ability secondary school students. This report describes, in some detail, the style of the program, the curriculum and the projects the students undertook.

## Cellular computation and communications using engineered genetic regulatory networks

**Resource**
[external link]

**Creator**
Weiss, Ron, 1970-

**Contributor:**
Massachusetts Institute of Technology. Dept. of Electrical Engineering and Computer Science.
Thomas F. Knight, Jr., Gerald Jay Sussman and Harold Abelson.

**Date**
2001
2005-08-23T18:27:43Z

**Subject and Keywords**
Electrical Engineering and Computer Science.

**Resource Type**
Thesis

**Publisher**

**Description**

Ph.D.

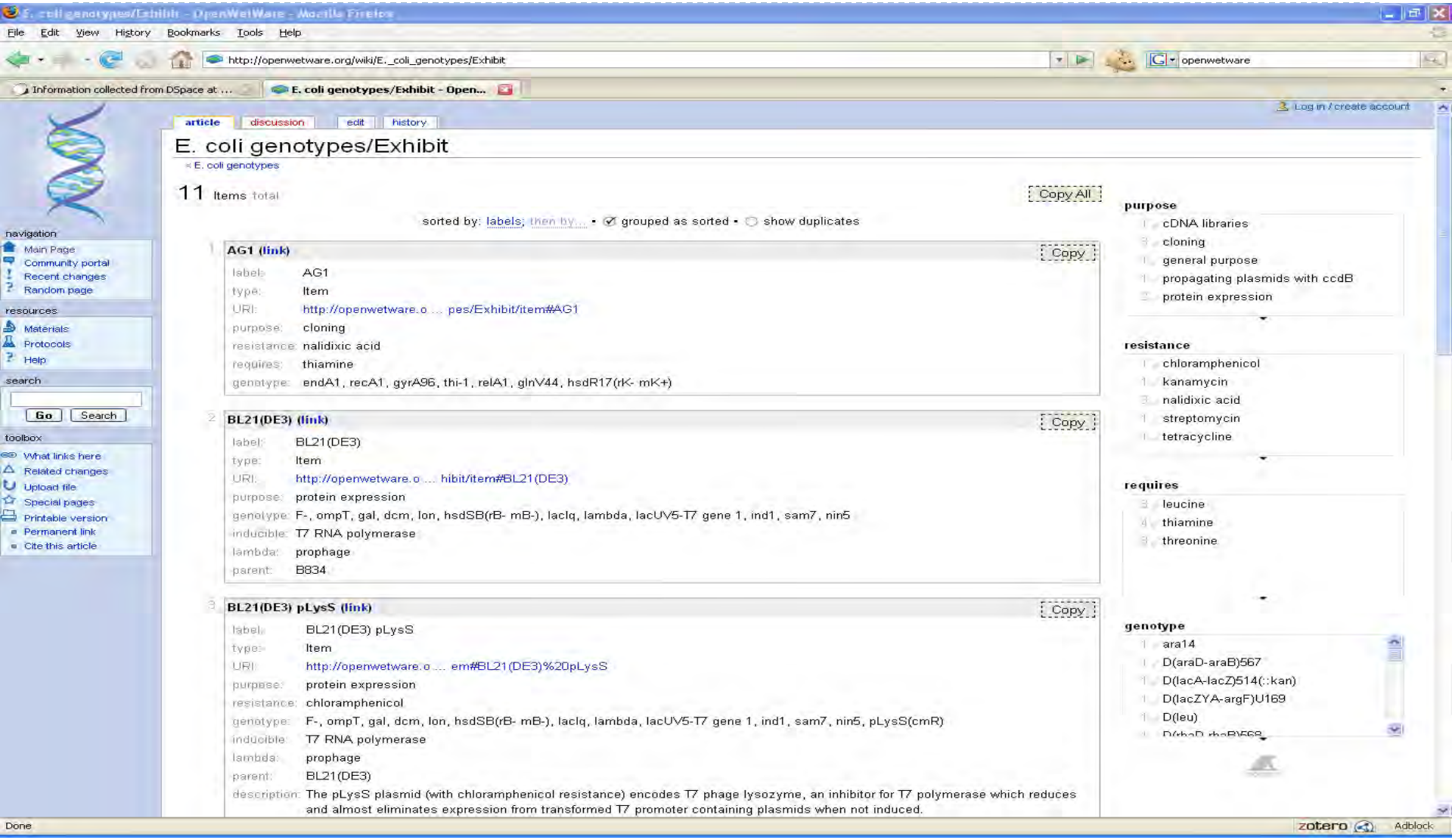
Thesis (Ph. D.)--Massachusetts Institute of Technology, Dept. of Electrical Engineering and Computer Science, 2001.

Includes bibliographical references (p. 130-138).

In this thesis, I present an engineering discipline for obtaining complex, predictable, and reliable cell behaviors by embedding biochemical logic circuits and programmed intercellular communications into cells. To accomplish this goal, I provide a well-characterized component library, a biocircuit design methodology, and software design tools. I have built and characterized an initial cellular gate library with biochemical gates that implement the NOT, IMPLIES, and AND logic functions in E. coli cells. The logic gates perform computation using DNA-binding proteins, small molecules that interact with these proteins, and segments of DNA that regulate the expression of the proteins. I introduce genetic process engineering, a methodology for modifying the DNA encoding of existing genetic elements to achieve the desired input/output behavior for constructing reliable circuits of significant complexity. I demonstrate the feasibility of digital computation in cells by building several operational in-vivo digital logic circuits, each composed of three gates that have been optimized by genetic process engineering.

(cont.) I also demonstrate engineered intercellular communications with programmed enzymatic activity and chemical diffusions to carry messages, using DNA from the Vibrio fischeri lux operon. The programmed communications is essential for obtaining coordinated behavior from cell aggregates. In addition to the above experimental contributions, I have developed BioSPICE, a prototype software tool for biocircuit design. It supports both static and dynamic simulations and analysis of single cell environments and small cell aggregates. Finally, I present the Microbial Colony Language (MCL), a model for programming cell aggregates. The language is expressive enough for interesting applications, yet relies on simple primitives that can be

# Exhibit



# Education Policy & Data Center



## Global, Continent, and National Maps for 63 Countries

**Search**

**Indicator**
- 5 Educational Attainment
- 2 Gross Attendance Rate
- 2 Net Attendance Rate

**School Level**
- 1 No Schooling
- 2 Primary
- 1 Primary Complete +
- 1 Primary Incomplete +
- 2 Secondary
- 1 Secondary Complete +
- 1 Secondary Incomplete +

Clicking on a map will take you to a larger image suitable for downloading.

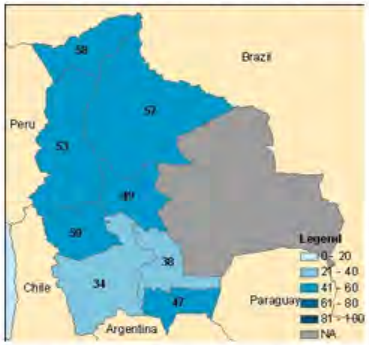
9 Maps filtered from 504 originally (Reset All Filters)

sorted by: labels; then by... • ☑ grouped as sorted

**Bolivia Educational Attainment (No Schooling)**

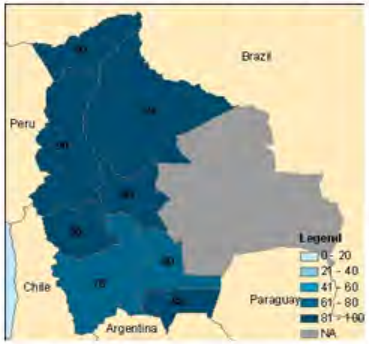

**Indicator:** Educational Attainment
**School level:** No Schooling
**Continent:** South America
**Source:** DHS Dataset
**Year:** 2003

**Bolivia Educational Attainment (Primary Complete +)**




**Indicator:** Educational Attainment
**School level:** Primary Complete +
**Continent:** South America
**Source:** DHS Dataset
**Year:** 2003

**Bolivia Educational Attainment (Primary Incomplete +)**




**Indicator:** Educational Attainment

**Bolivia Educational Attainment (Secondary Complete +)**


**Indicator:** Educational Attainment

**Level**
- 9 national

**Continent**
- 9 South America

**Country** 1

- 1 Afghanistan ☐
- 9 Angola ☐
- 9 Armenia ☐
- 9 Bangladesh ☐
- 8 Belize ☐
- 4 Bhutan ☐
- 9 **Bolivia** ☑
- 4 Brazil ☐
- 9 Burkina Faso ☐
- 9 Burundi ☐
- 9 Cameroon ☐
- 9 Central African Republic ☐
- 4 Chile ☐

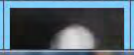
# Important 6th Grade SOL Figures

This is more than a web page. This is an interactive site that allows you to manipulate and sort the data with just a click or two. If you'd like to see an example of the page in use click here.

TABLE • DETAILS • PHOTOS • BIRTH PLACES • SITES OF DEMISE • LIVES

19 People total

Copy All

| Name | Picture | Role | Era | Birth | Death | Facts | SOL |
|---|---|---|---|---|---|---|---|
| John Cabot |  | Explorer | Exploration | 1450-01-01 | 1499-05-22 | John Cabot explored eastern Canada. | USI.4a |
| Francisco Coronado |  | Explorer | Exploration | 1510-01-01 | 1554-01-01 | Francisco Coronado claimed the southwest United States for Spain | USI.4a |
| Samuel de Champlain |  | Explorer | Exploration | 1567-01-01 | 1635-12-25 | Champlain established the French settlement of Quebec. | USI.4a |
| John Locke |  | Philosopher | Revolutionary War | 1632-07-29 | 1704-10-28 | Locke was an English philosopher who believed that people had inherent rights to life, liberty and property. His beliefs that the government was created to protect the rights of the people became one of the founding principals of the Declaration of Independence. | USI.6b |
| Robert La Salle |  | Explorer | Exploration | 1643-11-22 | 1687-03-19 | Robert La Salle claimed the Mississippi River Valley for France. | USI.4a |
| Benjamin Franklin |  | Politician | Revolutionary War | 1706-01-17 | 1790-04-17 | Benjamin Franklin was a prominent member of the Continental Congress and helped frame the Declaration of Independence | USI.6c |

**ROLE**

- 4 Explorer
- 1 Journalist
- 1 Patriot
- 1 Philosopher
- 1 Poet
- 2 Politician
- 6 President

**ERA**

- 2 Civil War
- 5 Colonial
- 4 Exploration
- 2 New Nation
- 6 Revolutionary War

# Elliott and Elliott: Biochemistry and Molecular Biology 4e

Select molecules using the following filters and click on the molecule legend to access a 3-D interactive model

Help

Quick Search:

| Chapter | Page | Figure | Title |
|---|---|---|---|
| 1 | 8 | 1.5 | Bacterial porin |
| 4 | 11 | 1.7 | B-DNA |
| 6 | 53 | 4.7 | DNA sliding clamp |
| 7 | 54 | 4.9 | EF-G in complex with GDP |

18 Items

Bacterial porin: A transmembrane protein exhibiting a β-barrel structure, containing 16 antiparallel β sheets linked together by loops and short α-helices.

B-DNA: A short section of a B-DNA molecule, showing the major and minor grooves.

Potassium channel, showing two subunits: Two of the four subunits which make up the transmembrane potassium channel. The potassium ions are coloured green showing their positions as they pass through the channel.

Potassium channel: A transmembrane structure, comprising four subunits. The potassium ions are coloured green showing their positions as they pass through the channel.

$F_1$ subunit of the *E. coli* ATP synthase: A transmembrane structure, primarily comprising alternating α and β subunits and a stalk which includes the γ and ε subunits.

DNA sliding clamp: Monomer of the yeast protein that confers processivity on DNA polymerase which contains an antiparallel β-sheet backbone and α-helices which

EF-G in complex with GDP: Catalyses the ribosomal translocation of peptidyl-tRNA from the A site to the P site.

Yeast transfer $RNA^{phe}$: Space-filling model of the tRNA specific for phenylalanine. It carries the activated amino acid to the ribosome.

# FACADE Project

Future-proofing Architectural Computer-Aided Design

 November, 2009

# FACADE Goals

- Solve loss of digital architectural data
  - Architectural firms, libraries, museums, archives face challenges
  - Especially 3D CAD models and Building Information Models
- Demonstrate in DSpace digital archive, SIMILE tools
  - Applications for teaching, research, data reuse

# Architectural Data

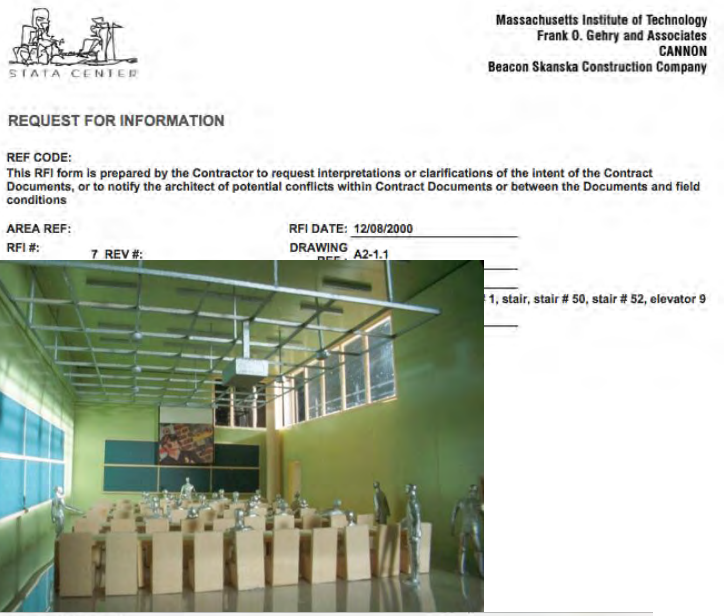
- Frank Gehry, MIT Stata Center
  - Cambridge, Mass. (2004)
  - CATIA v4, v5
- Moshe Safdie, U.S. Institute of Peace
  - Washington, D.C. (2009)
  - Autodesk Revit
- Morphosis (Thom Mayne), Caltrans
  - Los Angeles, Calif. (2004)
  - Bentley Microstation

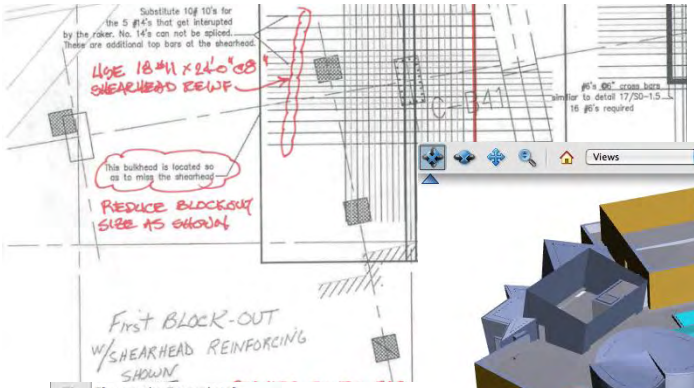
# Architectural Data

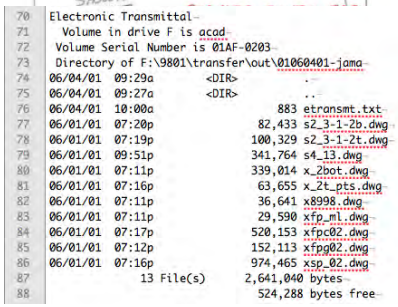
- 10Ks of files
- 10s of Gbs
- 100+ file formats

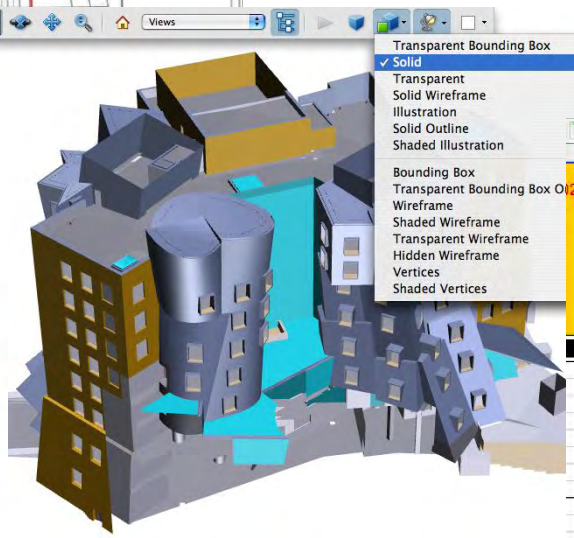
Stored in file systems

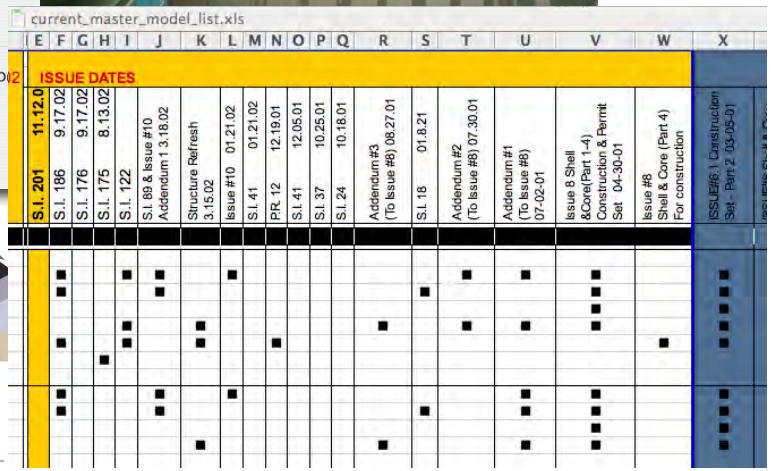
***Almost no metadata***



# Every File gets *Five Tags*

- **Project Phase** (*when*)
  concept, design, construction, etc.
- **Building Zone** (*where*)
  Stata Center, Gates Tower, 4th floor
- **Architectural Discipline** (*why*)
  architectural, electrical, mechanical, structural
- **Document Type** (*what*)
  presentation, drawing, communication
- **File Format** (*how*)
  CATIA, AutoCAD, Word, PDF

 November, 2009

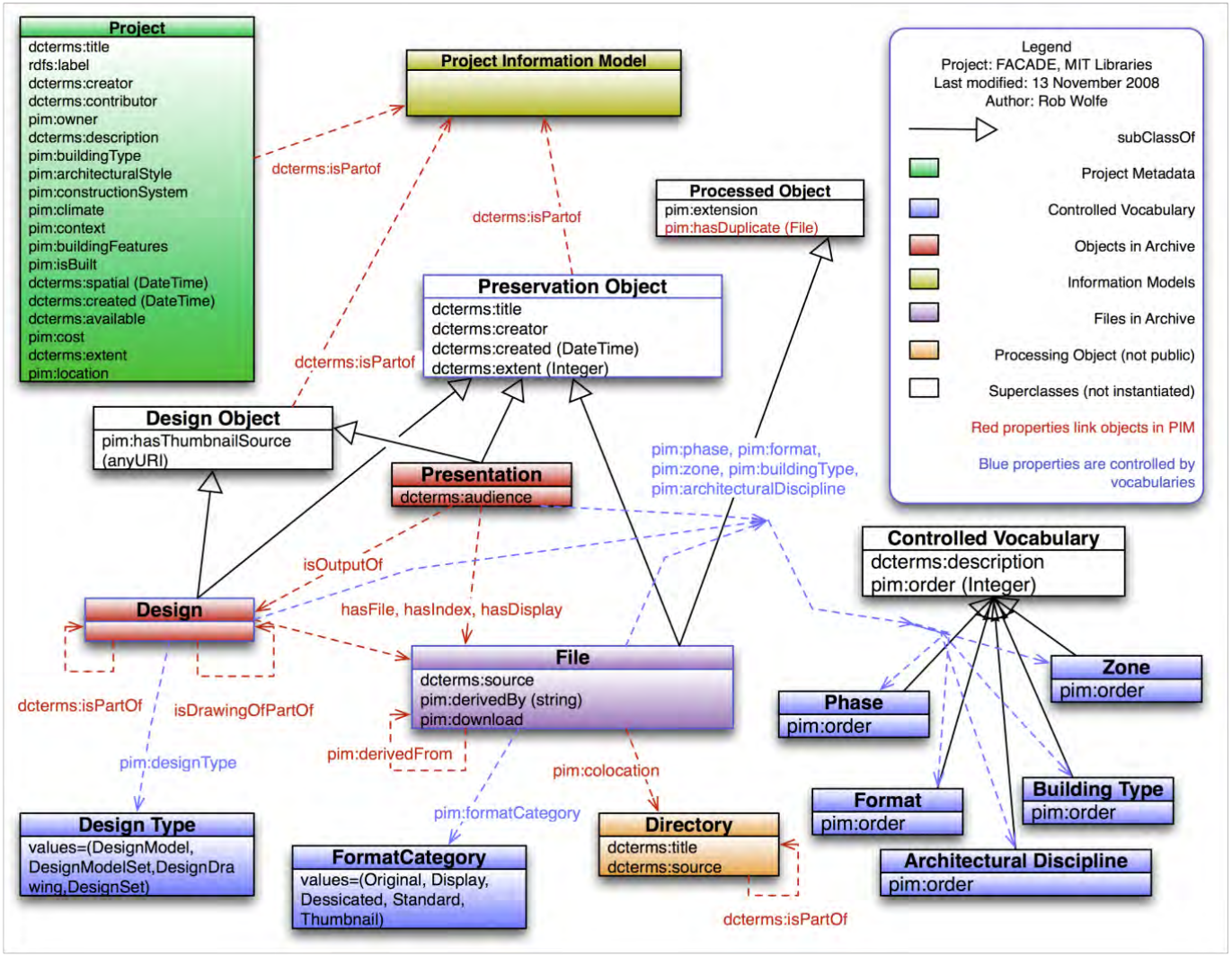
# Important files further tagged

## Hand-selected Design Objects

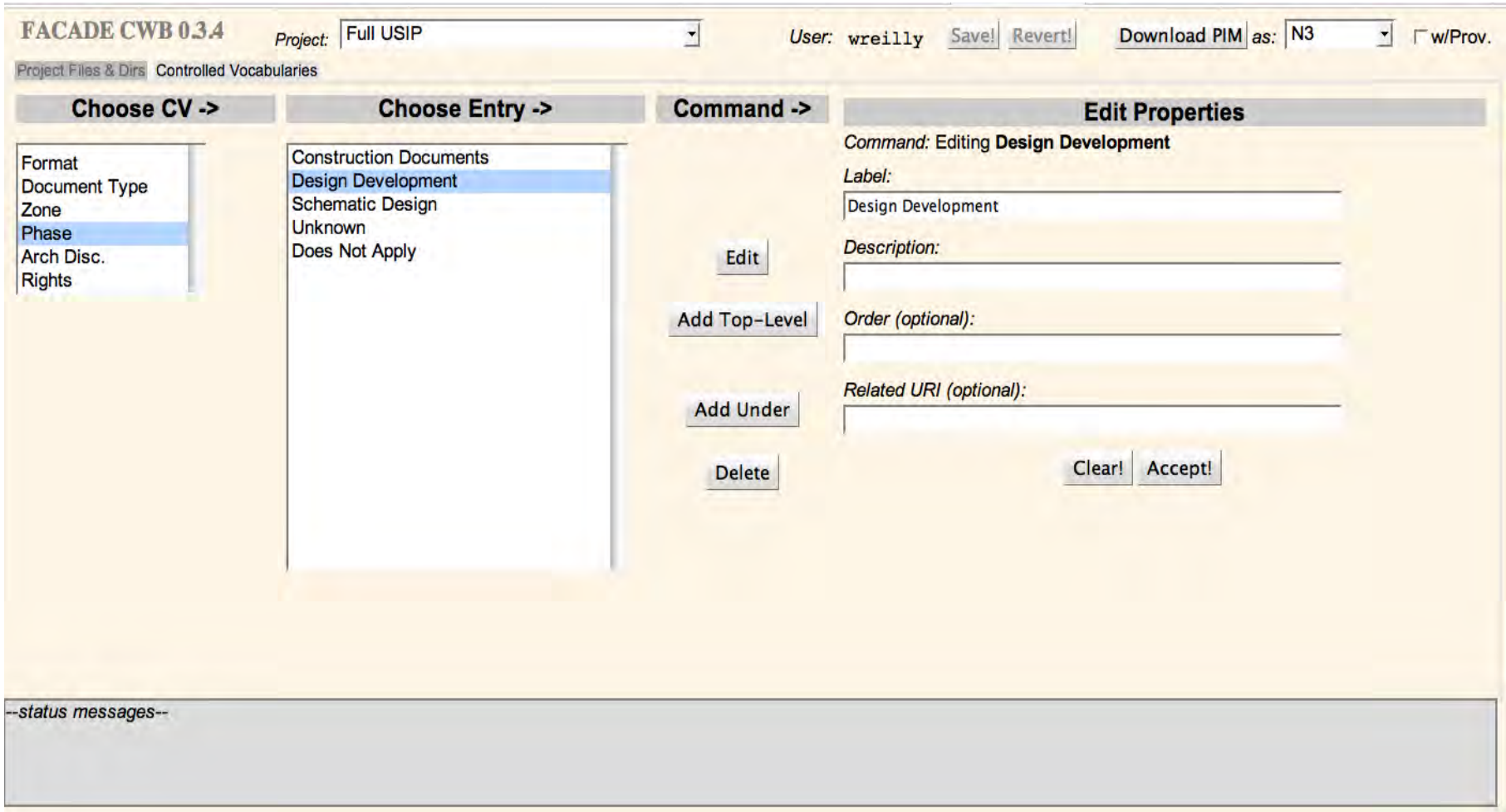
- 3D models and 2D drawing sets
- Client presentations, etc.

## Collected into a project "Exhibit"

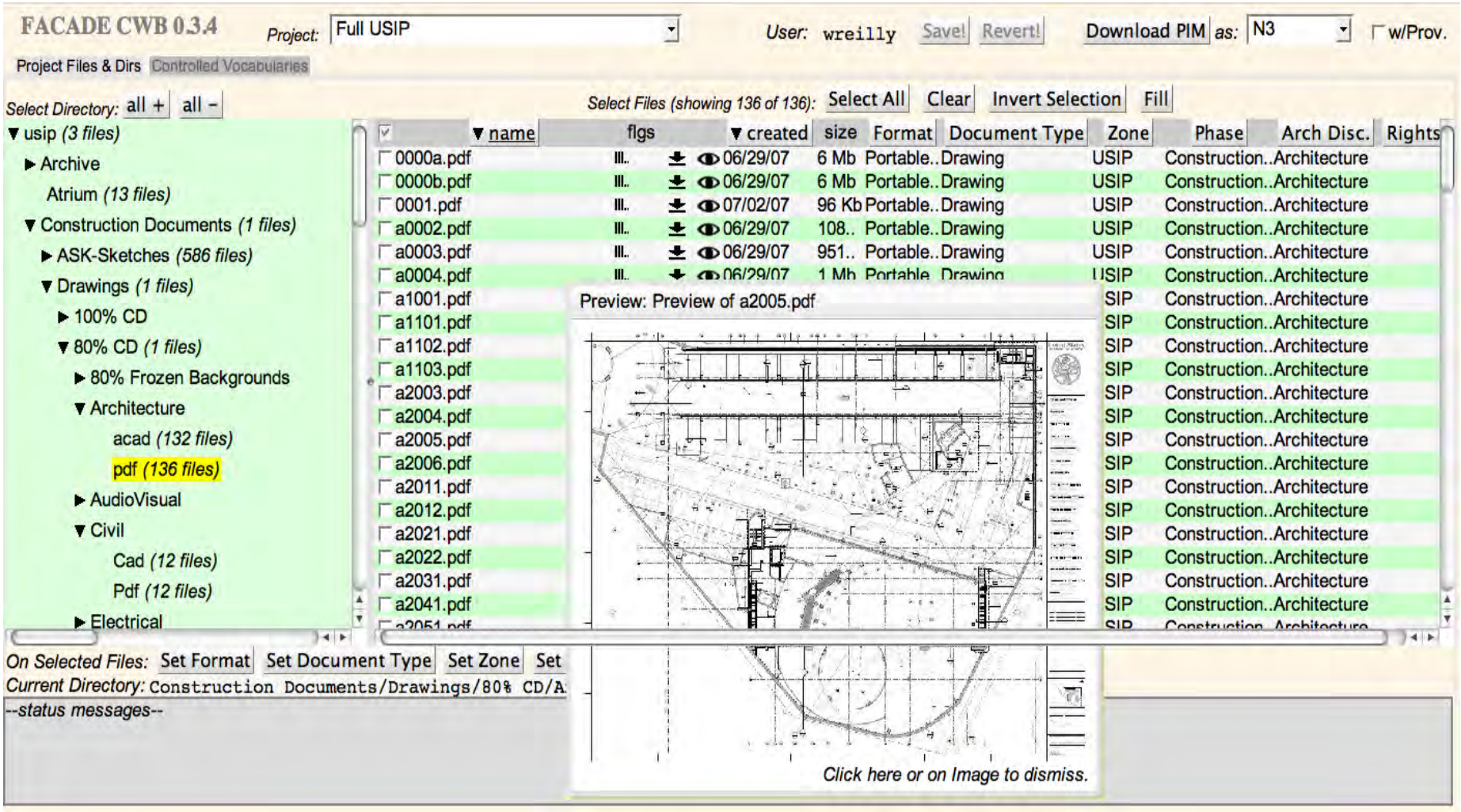
# Project Information Model Ontology



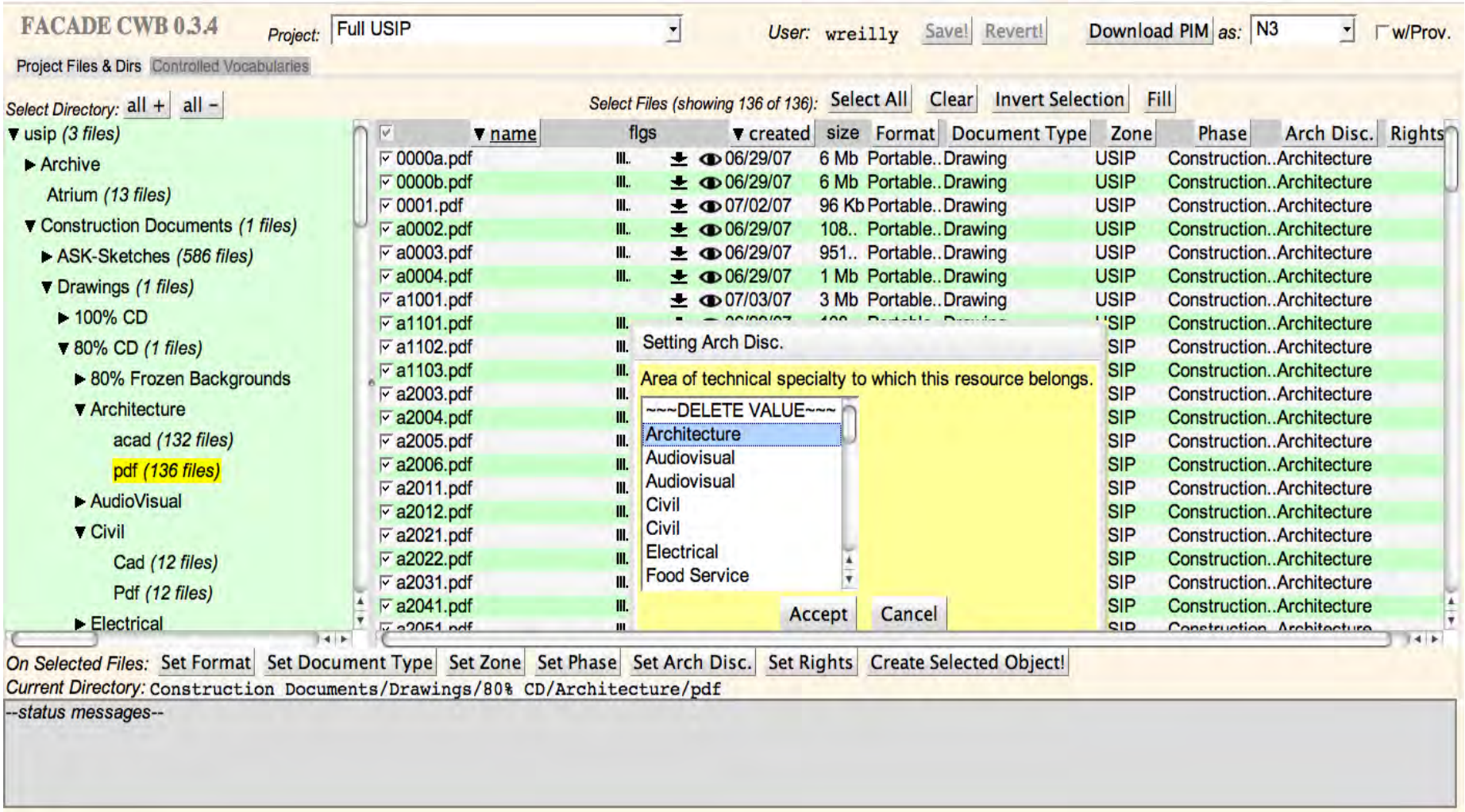
# Curator's Workbench



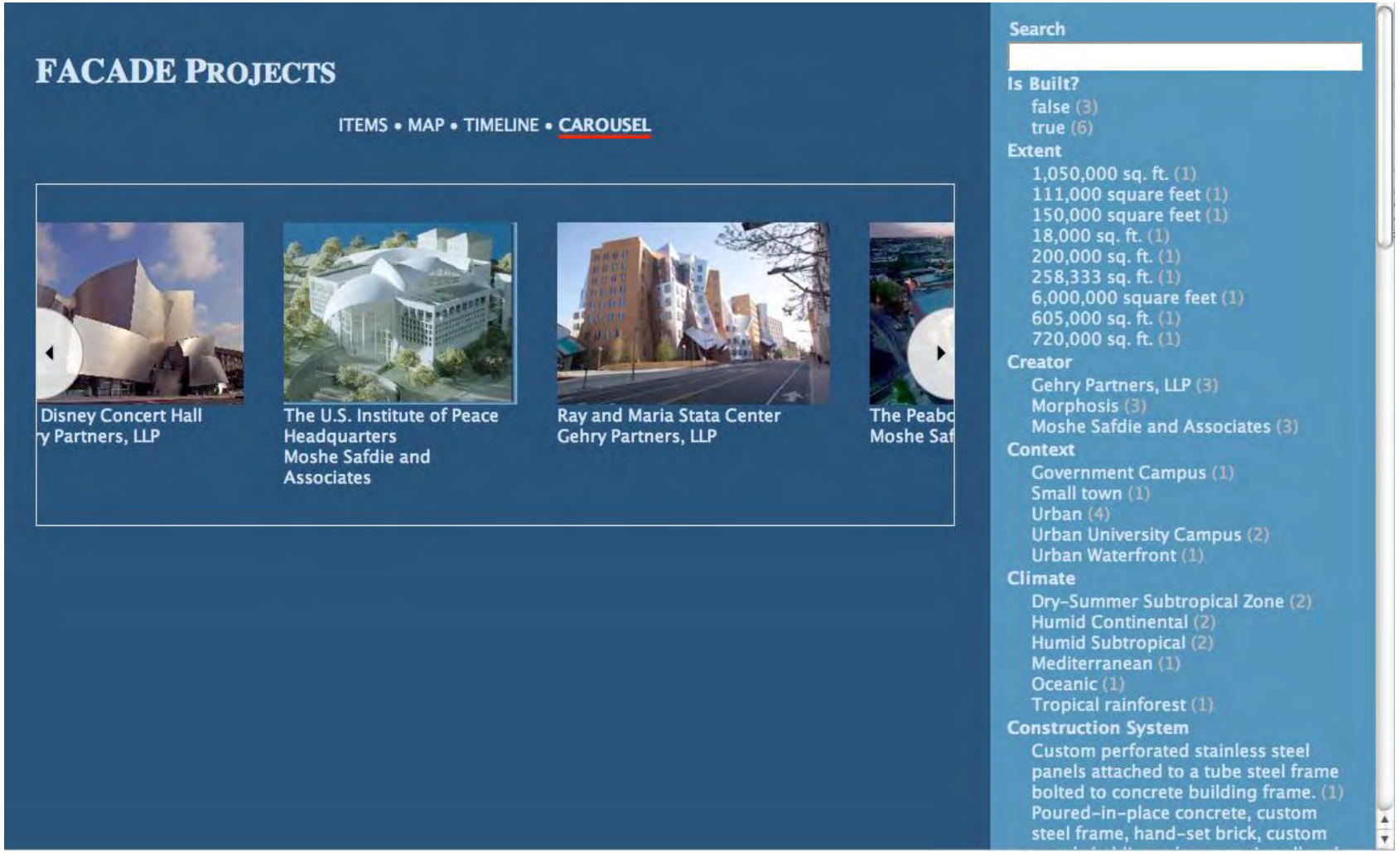
# Curator's Workbench



# Curator's Workbench



# FACADE Web User Interface



# Caltrans District 7 Headquarters

Search full data-set in Longwell

Tiles • Table • Timeline

**5** File filtered from 55 originally (Reset All Filters)

sorted by: labels; then by... • ✓ grouped as sorted

Source Path: site model images/enhanced final images/axon1.jpg
Architectural Discipline: Architecture
Zone: Caltrans
Phase: Competition
Doc Type: Model
Format: JPEG File Interchange Format 1.02
Extension: jpg
File Size: 193405
Original Directory Location: enhanced final images
Created: 2001-11-06T04:48:38

Source Path: site model images/enhanced final images/axon2.jpg
Architectural Discipline: Architecture
Zone: Caltrans
Phase: Competition
Doc Type: Model
Format: JPEG File Interchange Format 1.02
Extension: jpg
File Size: 178675
Original Directory Location: enhanced final images
Created: 2001-11-06T04:46:16

**Search**

**Type**
5 File

**Original Location**
1 02-08-06
4 enhanced final images

**Format** 1 ✓
19 (missing this field)
3 ASCII Text
4 AutoDesSys Form.Z model
3 Initial Graphics Exchange Standard
5 JPEG File Interchange Format 1.02 ✓

**Extension**
5 jpg

References

Organized Via

# USIP Project Files

CAROUSEL • ITEMS • TIMELINE

15 DesignObject filtered from 19 originally (Reset All Filters)


DesignObject

Search

Type
ProjectObject (15)

References
United States Institute of Peace (15)

Organized Via
Drawing Sheet Master Index (100% DD) (2)
Drawing Sheet Master Index (80% CD) (11)
(others) (2)

File Type
Image (13)
Image, 3D (2)

File Format
Adobe PDF (14)
AutoCAD DWG (13)
AutoCAD DXF (15)
IFC (2)
Revit (2)

Creator
Moshe Safdie & Associates (15)

Phase
Construction Documents (9)
Design Development (6)

Number of Files
0 - 5 (15)

Contains Format Category
Geometry (15)
Original (15)
Presentation (15)
Standard (2)

Has File Derived By
AutoCAD (15)

Discipline
Architectural (5)
Electrical (4)
Mechanical (2)
Structural (4)

Recipient
(15)

FACADE Catalog of Projects (select Map view) - Mozilla Firefox

File Edit View History Bookmarks Tools Help

FACADE Catalog of Projects (select M...

# FACADE PROJECTS

ITEMS · MAP · TIMELINE · CAROUSEL

3 Projects filtered from 9 originally (Reset All Filters)


Search

Is Built?
- true (3)

Extent
- 200,000 sq. ft. (1)
- 258,333 sq. ft. (1)
- 720,000 sq. ft. (1)

Creator
- ☑ Gehry Partners, LLP (3)
- ☐ Morphosis (3)
- ☐ Moshe Safdie and Associates (3)

Context
- Urban (2)
- Urban University Campus (1)

Climate
- Dry-Summer Subtropical Zone (1)
- Humid Continental (1)
- Oceanic (1)

Construction System
- Poured-in-place concrete, custom steel frame, hand-set brick, custom metal cladding, glass curtainwall and aluminum framing. (1)
- Stainless steel panels on steel frame (1)
- Titanium panels on steel frame. (1)

Architectural Style
- Deconstructivist (1)
- Expressionist (2)

Contributor
- Beacon Skanska Inc. (1)
- M.A. Mortenson (1)
- URSSA (1)

Building Type
- Art Museum (1)
- Engineering Research Facility (1)
- Fitness and Training Facility (1)
- Indoor Swimming Pool (1)
- Performing Arts Facility (1)
- University (1)

Cost
- $100,000,000 (1)
- $274,000,000 (1)
- $283,500,000 (1)

Building Features
- A free sculpture of curvaceous metal-clad forms. (1)
- Drunken Robots. (1)
- High-tech acoustic spaces. (1)

Location
- Bilbao, Spain (1)
- Cambridge, MA, U.S.A. (1)
- Los Angeles, CA, U.S.A. (1)

Date
- 1997 (1)
- 2003 (1)
- 2004 (1)

Stata Data {select Carousel view} - Mozilla Firefox

File Edit View History Bookmarks Tools Help

FACADE projects | Stata Data {select Carousel view}

References

Organized Via

# STATA PROJECT FILES

CAROUSEL · ITEMS · TIMELINE





A4-2.18 Element 8 Giraffe, Element 21 Lucky


Gates Patt

## GATES GEOMETRY (3D MODEL)

Design Object
3D Model of Gates Wing of Stata Center.

Discipline: Architectural
Creator: Gehry Partners, LLP.
Phase: Construction
Date: 2002-12-03
Referenced by:
Organized Via:

4 file(s)

Search

Type
- Organization (2)
- ProjectObject (9)

References
- Gates Geometry 3D Model (1)
- Gates Pattern 3D Model (1)
- MIT Stata Center (7)
- RFI 1244 (1)
- (others) (4)

Organized Via
- Catia Master Model Issue List (2)
- Stata Center Drawing Sheet Master Index (2)
- (others) (7)

File Type
- Image (2)
- Image, 3D (2)
- Other (2)
- Presentation (2)
- Text (3)

File Format
- Adobe PDF (5)
- AutoCAD DWG (2)
- AutoCAD DXF (2)
- AVI Video (1)
- CATIA 4 Model (3)
- IGES (2)
- JPEG (1)
- Microsoft Excel (3)
- Microsoft Powerpoint (1)
- STEP (2)
- Text (1)

Creator
- Beacon Skanska (1)
- Bonet, Frances (1)
- Gehry Partners, LLP. (9)

Phase
- Construction (8)
- Design Development (1)
- Issue #8 Construction/Permit Set (1)

Number of Files
- 0 - 5 (10)
- 5 - 10 (1)

Contains Format Category
- Geometry (4)
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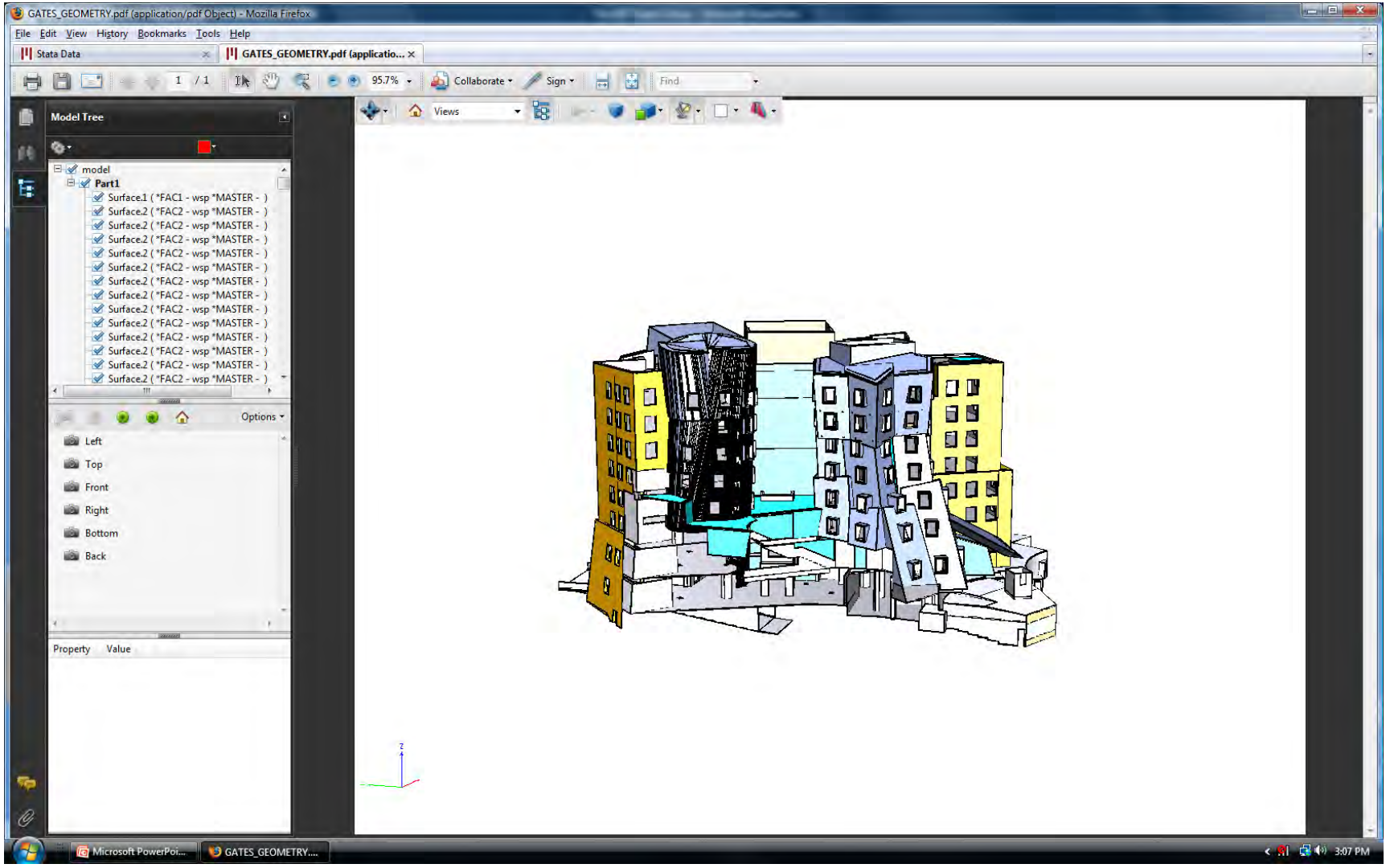
- Standard (2)

Has File Derived By
- AutoCAD (2)
- CATIA v5 (2)

Discipline
- Architectural (1)

Recipient

# Interactive 3D Model (3D PDF)



# FACADE

Future-proofing Architectural Computer-Aided DEsign // Data-set: CWB Complete (Oct 27)

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- (missing) 23119
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**18** items. « ‹ **1** next › »

TABLE

auto-pick columns | add column...

| | label | source | phase | zone | extent |
|---|---|---|---|---|---|
| 1. | FILE-18206 | Images/071031_Landscape Images 2 Flags/071031_Aerial_11.jpg | Design Development | USIP | 9831322 |
| | | 71031_phase 1.jpg | Design Development | USIP | 11203126 |
| | | 71031_phase2-phase 2.jpg | Design Development | USIP | 9363140 |
| | | ing/LandscapePlanting1.jpg | Construction Documents | USIP | 842955 |
| | | ing/LandscapePlanting2.jpg | Construction Documents | USIP | 837038 |
| | | ing/LandscapePlanting3.jpg | Construction Documents | USIP | 9975422 |
| | | ing/montage.jpg | Construction Documents | USIP | 3611911 |
| | | .jpg | Schematic Design | USIP | 421761 |
| | | .jpg | Schematic Design | USIP | 561453 |
| 10. | FILE-37812 | in/sd/images from balmori/schemeA.model3.jpg | Schematic Design | USIP | 442613 |
| 11. | FILE-37813 | in/sd/images from balmori/schemeA.plan.jpg | Schematic Design | USIP | 1113753 |
| 12. | FILE-37814 | in/sd/images from balmori/schemeB.model1.jpg | Schematic Design | USIP | 769786 |
| 13. | FILE-37815 | in/sd/images from balmori/schemeB.model2.jpg | Schematic Design | USIP | 657236 |
| 14. | FILE-37816 | in/sd/images from balmori/schemeB.model3.jpg | Schematic Design | USIP | 548356 |

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**Attribute Filters**

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- 41 ☐ Structural
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extension

extent

format 1
- 79 ☐ Exchangeable Image File Format (Compres
- 18 ☑ JPEG File Interchange Format
- 2 ☐ OLE2 Compound Document Format
- 2 ☐ Adobe Photoshop

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**presentation1.ppt**

**Architectural Discipline:**
Architecture

**Document Type:**
Presentation

**Source:**
Interiors/Schematic_Design/PRESENTATIONS/030405

**Format:**
Microsoft Powerpoint Presentation

**Zone:**

TABLE

add column...

Project File Directory
d States Institute of Peace
ruction Documents Schedule September 21, 2006
Schematic Design Program Areas

| | | | | |
|---|---|---|---|---|
| 5. | Output-O0007 | FILE-38713 | 2005-05-17 | United States Institute of Peace Presentation |
| 6. | Output-O0008 | FILE-38752 | 2005-03-02 | Buro Happold Roof Skin Analysis |
| 7. | Output-O0009 | FILE-38773 | 2005-03-21 | Site Plan, Pric |

append 10 more items | 20 more

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Text Search

Attribute Filters

- architecturalDiscipline
- audience
- created
- creator
- documentType
- hasIndex
- phase 1
- title

pe 1
1176 File
7 Output

ne

Opening presentation1.ppt

You have chosen to open

**presentation1.ppt**

which is a: PowerPoint Presentation
from: **https://rotarran.mit.edu:8443**

What should Firefox do with this file?

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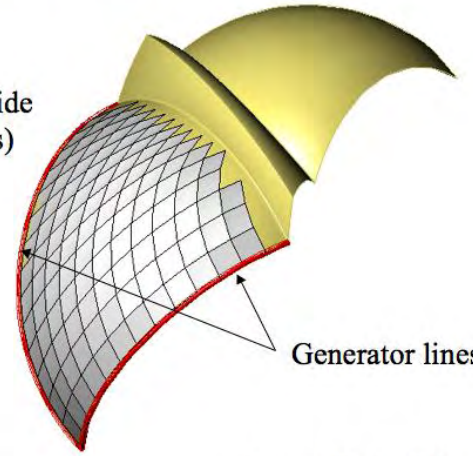
Save to Disk

Do this automatically for files like this from now on.

# Client Presentation (PPT)

Option 1: 'Draped net'

Every tile has same side length (angle changes)

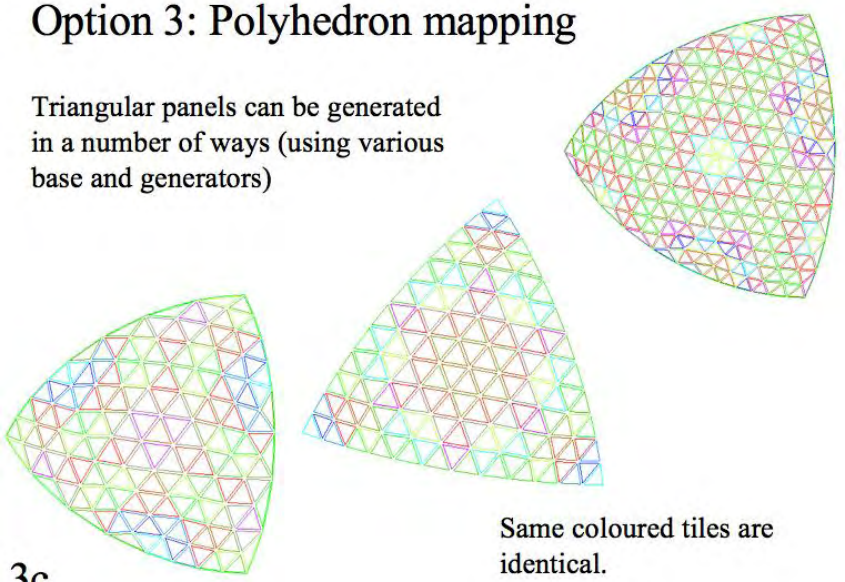



1a

Every tile is different

Option 3: Polyhedron mapping

Triangular panels can be generated in a number of ways (using various base and generators)

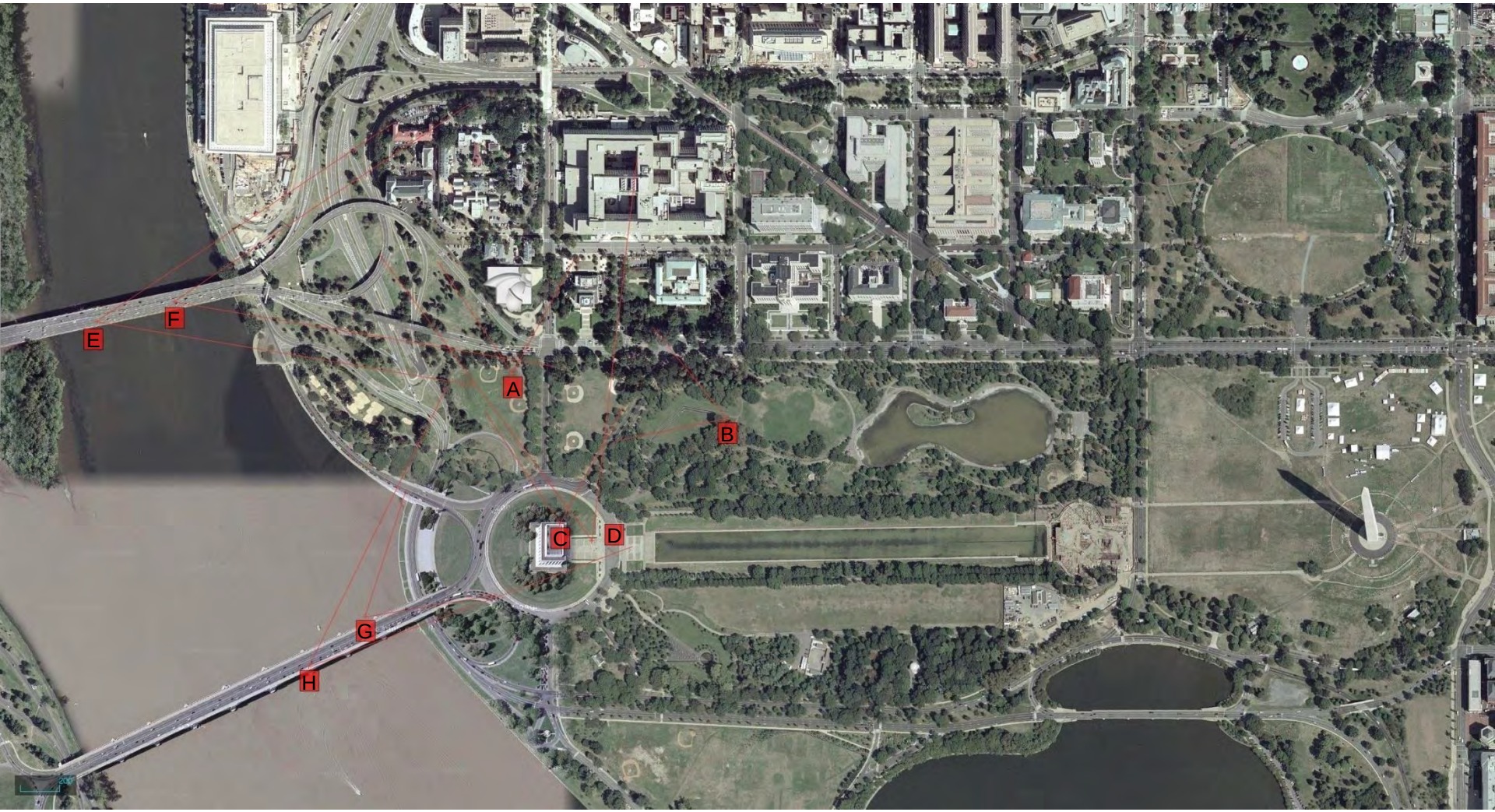


3c

Same coloured tiles are identical.

Moshe Safdie Assoc. presentation1.ppt

# Mall, Washington DC




Moshe Safdie Assoc. NCPC_03_06.ppt

# Mall View Today

Moshe Safdie Assoc. NCPC_03_06.ppt

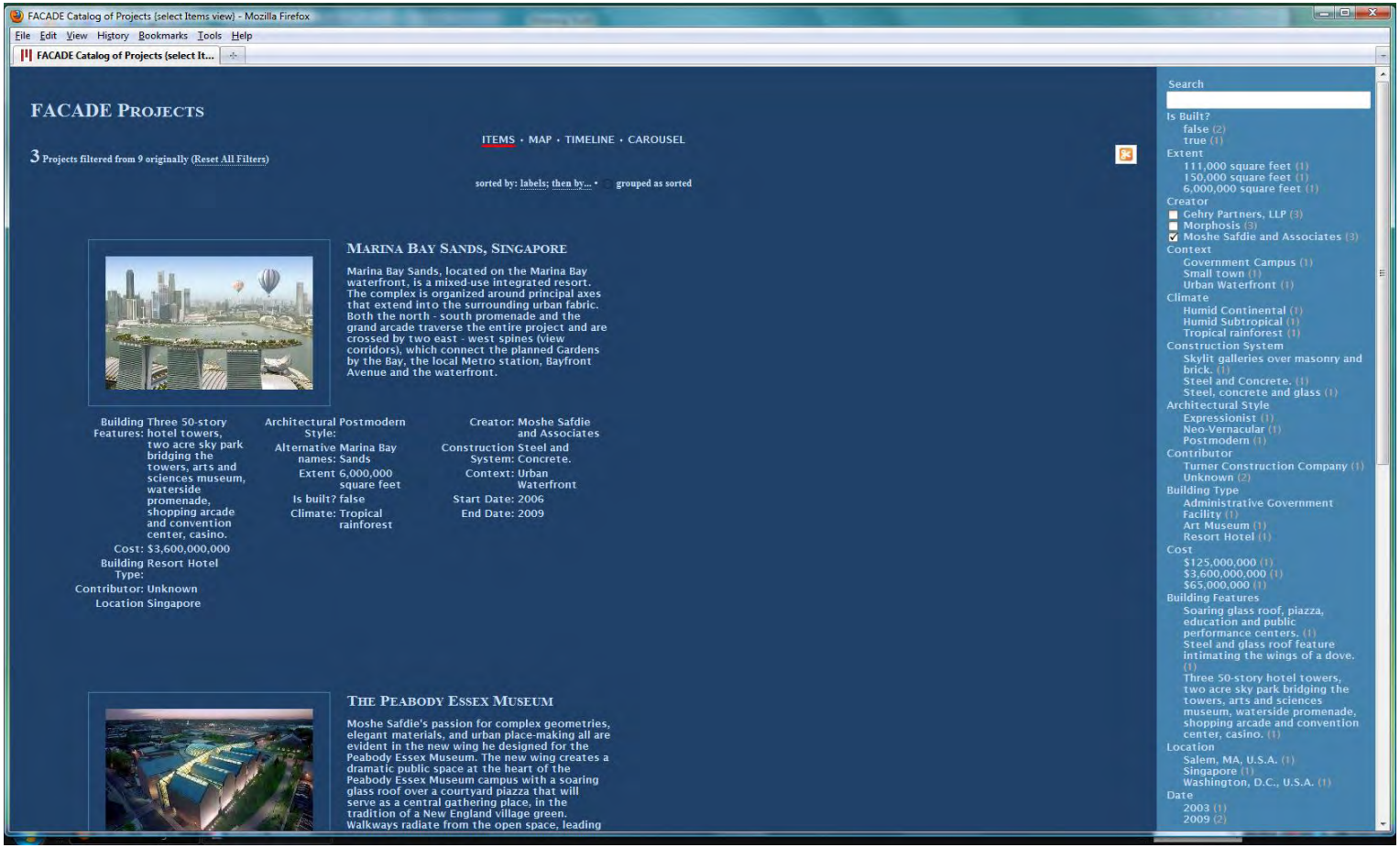
A: View from West Potomac Park, South of USIP adjacent to Lincoln Memorial without USIP building

# With USIP Building

Moshe Safdie Assoc. NCPC_03_06.ppt

A: View from West Potomac Park, South of USIP adjacent to Lincoln Memorial

# So is the Semantic Web Real?




Going live at MIT in mid-2010

# Acknowledgements

**The FACADE project was made possible by a grant from the U.S. Institute of Museum and Library Services**

http://facade.mit.edu

**The Simile Project was made possible by a grants from HP and the Andrew W. Mellon Foundation**

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