

MAGIC 2.0: Using GIS to Empower K-12 Curriculum Development.

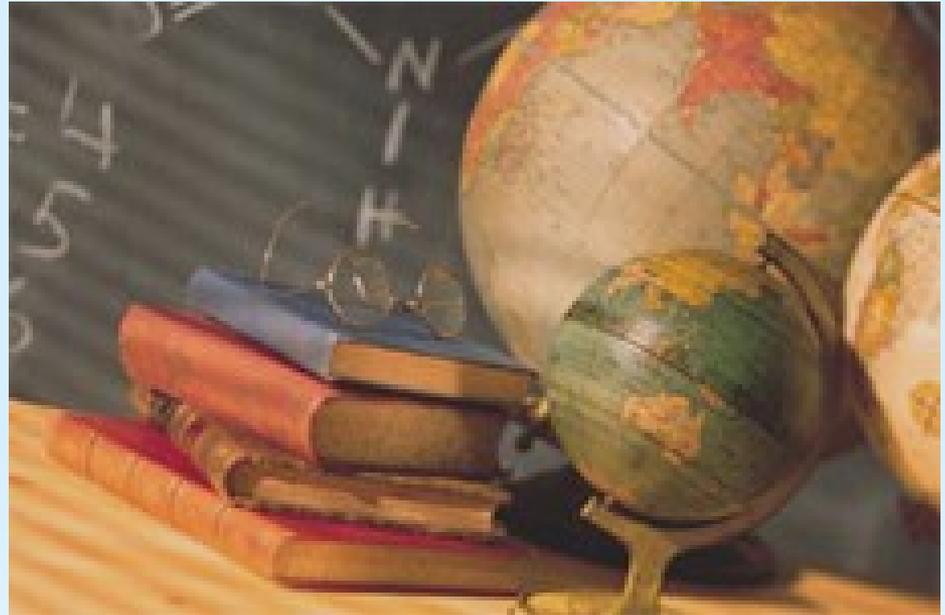
Jeffrey Dunn

Why GIS in the Classroom?

- Examine:
 - Demographic Data
 - Social studies
 - Natural Features
 - Sciences
 - Areal concepts
 - Mathematics
 - Historical Maps
 - History
- Collect & Create
 - Point, Line and Polygon Data
 - GPS
 - Digitizing
 - GIS analysis

Barriers to GIS in K-12

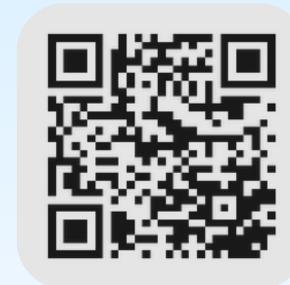
- Common Impediments
 - Ease of use
 - Steep Learning Curve
 - Time
 - Data
 - Support
 - Money
 - Computers
 - Software



<http://www.esri.com/news/arcnews/winter0910articles/the-importance-of.html>

MAGIC – Web 2.0 and K-12 Education

- Outside the Neatline
 - How in the World?
 - Map of the Week
- Help implementing free GIS platforms
- GIS Data
- Map Mash-ups
- QR Codes

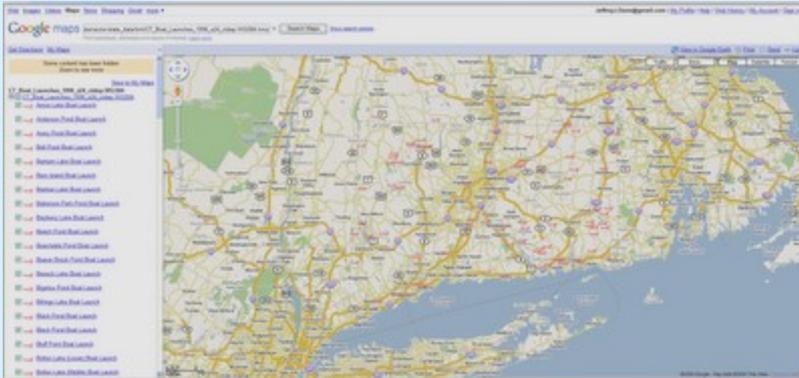


Outside the Neatline: How in the World?



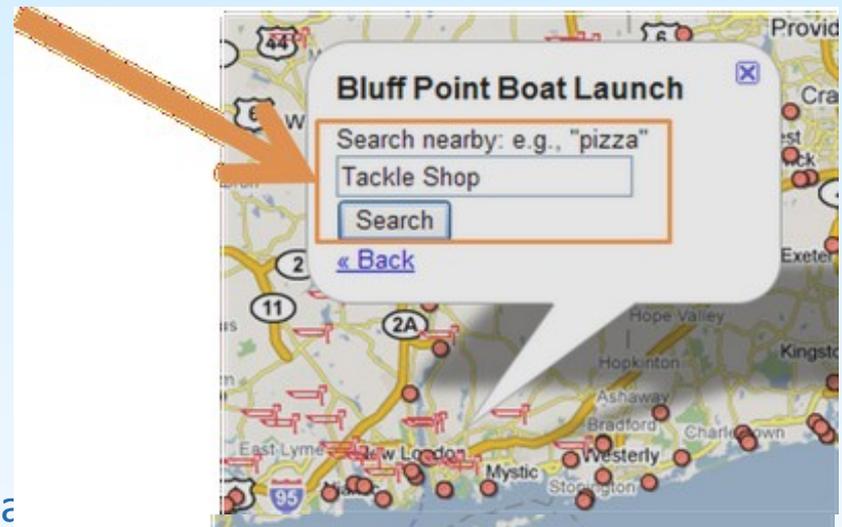
Hey Brandon, want to go fishing this weekend?

I think there's a boat launch near New London, CT that we can use.



Okay, sounds like fun! Where are we going?

Great! Um... I don't have a fishing pole, do you know where we can get one?





Outside the Neatline: How in the World?

- In the previous exercise geographic information was:
 - Loaded
 - Queried
 - Proximity analysis

Map of the Week

- If a picture is worth 1,000 words...
- A map can be priceless!
 - Deliver cross disciplinary content
 - Link to additional content on the web



PARKS:

Some well known parks include Lincoln Park and Lake Park.



Left: Lincoln Park, Right: Lake Park

Lincoln Park originally served as a cemetery for the city beginning in 1843 and later became a city park in 1864. Attractions within this park include the Lincoln Park Zoo, a conservatory, and the Peggy Notebaert Nature Museum.

Lake Park, now known as Grant Park was officially named as a park in 1844. Grant Park contains and links many famous Chicago attractions and events. Most notable is the Buckingham Fountain pictured below.





article discussion edit this page history

Grant Park (Chicago)

From Wikipedia, the free encyclopedia

Coordinates: 41°57′52″N 87°51′894″W﻿ / ﻿﻿ / ﻿

Grant Park (originally named **Lake Park**) is a large park (319 acres or 1.29 km²) in the Loop community area of Chicago, Illinois, United States. The park's most notable features are Millennium Park, Buckingham Fountain and the Art Institute of Chicago. Grant Park is frequently referred to as the city's front yard. It is bordered on the north by Randolph Street, on the south by Roosevelt Road, on the west by Michigan Avenue and on the east by Lake Shore Drive.

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- 1 History
- 2 Features
 - 2.1 Millennium Park
 - 2.2 Daley Bicentennial Plaza
 - 2.3 Art Institute of Chicago
 - 2.4 Buckingham Fountain
 - 2.5 Museum Campus
 - 2.6 Petrillo Music Shell
 - 2.7 Children's Museum
 - 2.8 Agora
 - 2.9 Other facilities
- 3 See also
- 4 Notes
- 5 References
- 6 External links

History

The original idea for the town of Chicago left the area east of Michigan Avenue unsubdivided and vacant, and purchasers of Michigan Avenue lots were promised that it would remain unoccupied. When the former Fort Dearborn became part of the townsite in 1839, the plat of the area east of Michigan Avenue south of Randolph was marked "Public ground. Forever to remain vacant of buildings."^[1]

The city officially designated the land as a **park** on April 29, 1844, naming it Lake Park. When the **Illinois Central** Railroad was built into Chicago in 1852, it was permitted to enter along the lakefront on a causeway built just offshore. The resulting lagoon became stagnant, and was largely filled in 1871 with debris from the **Great Chicago Fire**. In 1896 the city began extending Grant Park into the lake with **landfill**.^[2] On October 9, 1901, it was renamed Grant Park in honor of Galena, Illinois resident, **American Civil War** General and **United States President** Ulysses S. Grant.

The legal restrictions prohibiting any buildings in the park were ignored in the 1800s, as various civic buildings were sited there. Also, an **early home field** of the baseball club now known as the **Chicago Cubs** stood in the northwest corner of the park during the 1870s and 1880s. Daniel Burnham's 1909 *Plan of Chicago* proposed a cultural center, containing a library and two museums, as the centerpiece of the park. Chicago businessman **Aaron Montgomery Ward** ultimately fought four court battles, opposed by nearly every civic leader, to keep the park undeveloped.

Grant Park

U.S. National Register of Historic Places



Buckingham Fountain in Grant Park.

Location:	Chicago
Area:	Downtown Chicago
Architect:	Burnham, D.H.; Bennett, Edward H.
Architectural style(s):	Beaux Arts, Art Deco
Governing body:	Local
Added to IRHP:	July 21, 1993
IRHP Reference#:	92001075



2007 Chicago Jazz Festival at Petrillo Music Shell

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Map of the Week & Mash-ups

- Mash-ups allow:
 - Places to be linked to external websites
 - Address searching
 - Temporal analysis



University of Connecticut | University Libraries
Map and Geographic Information Center

HOME ABOUT SPATIAL DATA HISTORICAL MAP COLLECTION REFERENCE HELP & HOW TO CONTACT US FEEDBACK

Chicago in 1890 featuring the Worlds Fair of 1893

Data Layers - Toggle On or Off

GIS Users: [View these datasets in ArcGIS.](#)

Enter address - for example, 100 East Jackson Drive, Chicago IL

Enter Address Go!

Points of Interest

[Clear All](#)

1890 Google MAP

Future directions

- QR Codes (Quick Response)
 - Allows mobile phones to access data using a camera
 - Links to custom content
 - Treasure hunts, GIS Data, Historical Maps, Web Content



Future directions

- Implement The Connecticut State Data Center's new website
- Connecticut Geographic Alliance
 - August 02, 2010
 - Teachers Workshop
 - Implementing Web based GIS and other open source platforms in the classroom
- Invitation for further collaboration!

outsidetheneatline.blogspot.com

Acknowledgements

- Michael Howser & Bill Miller
 - Map and Geographic Information Center of the University of Connecticut Libraries.
- William DeGrazia & Tom Brodnitzki
 - Connecticut Geographic Alliance

The \$100,800 Collaboration

Michael Howser with
Special Guest Jack Dougherty

In a room... just like this

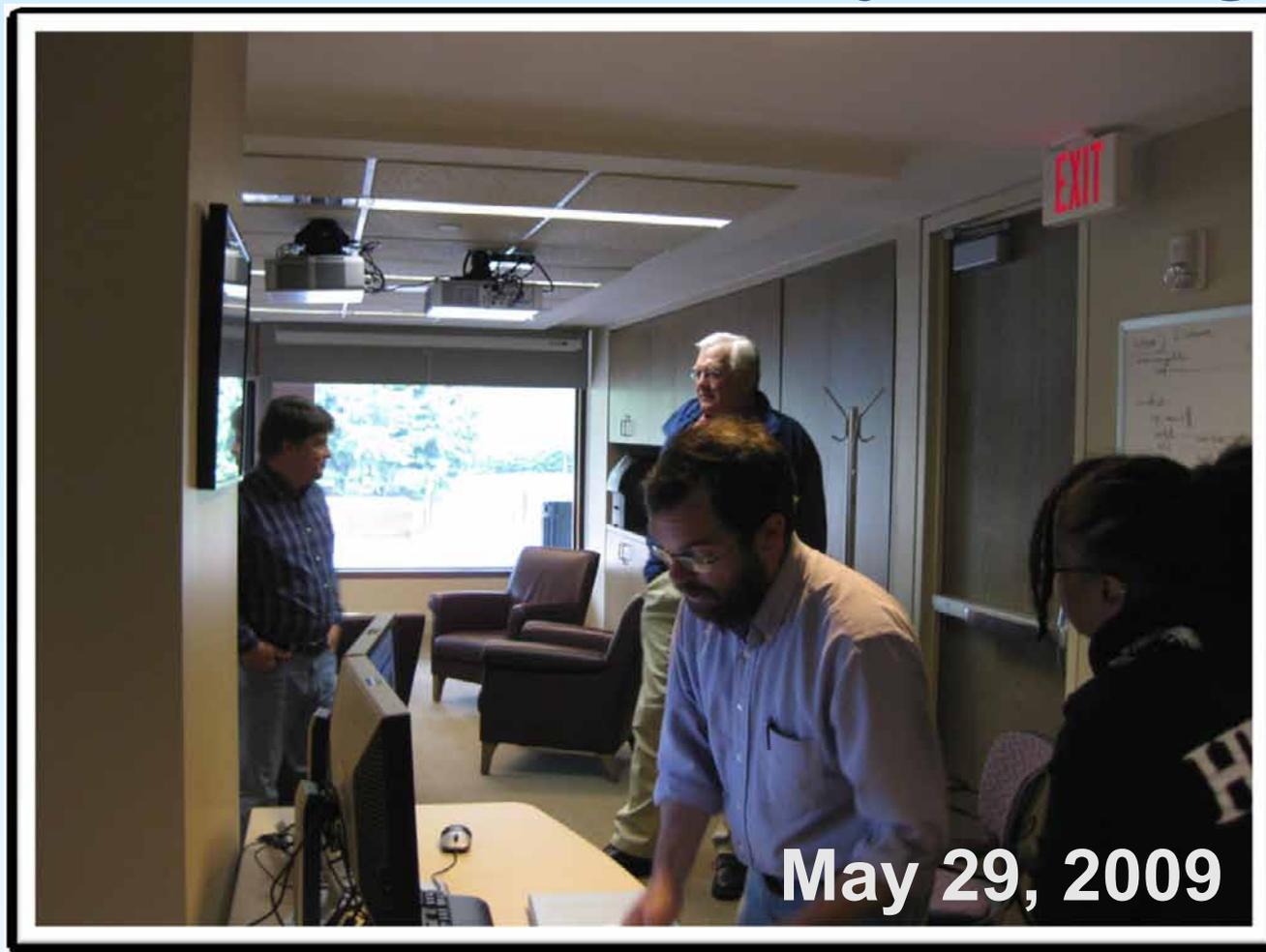
One year ago...

In fact... it was actually here at
Smith College at NEArc 2009

A presentation about MAGIC 2.0 sparked a conversation

So what happened next?

MAGIC visits Trinity College



May 29, 2009

Conversation Begins

- Conversation began about collaborating to increase access to GIS data
- Developed process for adding data to MAGIC website
- And the dialog continued...

Which then led to...

- Application to 2 National Endowment for the Humanities grants
- 1 American Council of Learned Societies grant application
- Collaboration between Trinity and MAGIC for each grant to develop map and GIS data sets for public use

Then something MAGICal happened

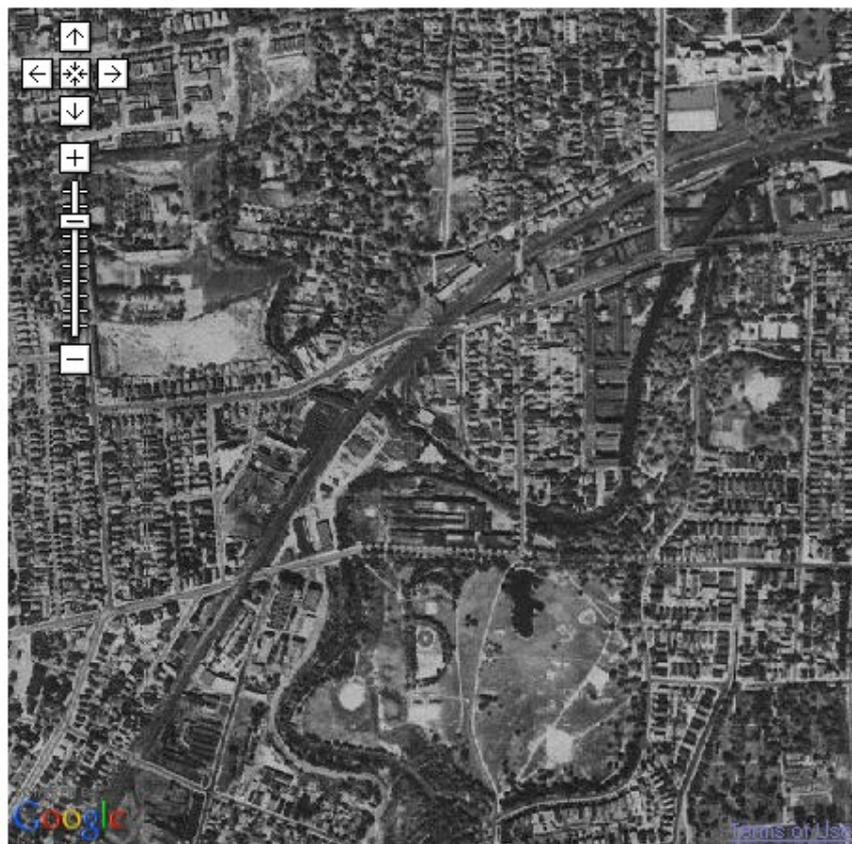
- NEH funded \$100,800 grant
 - MAGIC is recognized as being a Digital Humanities Center
 - Collaborative development of maps, GIS data, and map mash-ups
 - MAGIC will provide access to datasets via website

On The Line Project

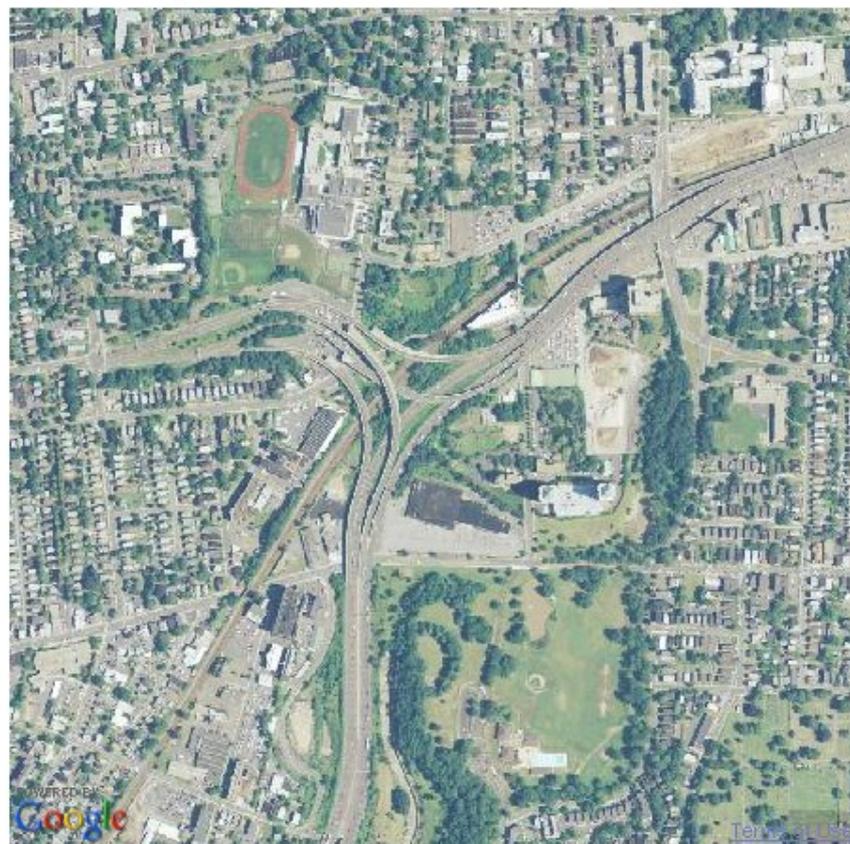
- *Forthcoming Book - “On the Line: How schooling, housing, and civil rights shaped Hartford and its suburbs”*
 - Focuses on Connecticut's capital region during the twentieth century
 - Examines how the “line” influenced lives within Hartford region

Map Viewer - Prototype

Select Map A 1934 Connecticut Fairchild Survey Aerial Photo



Select Map B 2008 Connecticut Statewide Aerial Photo



More details soon!

- Check out the On the Line Project website at: <http://ontheline.trincoll.edu/>

Special Thanks to Jack Dougherty
for making this opportunity happen!

Want to Collaborate?

Chat with any of us!

Or email MAGIC at
magic@uconn.edu

And Remember... Opportunities Surround Us!



In presentations

At tables during breaks or at Lunch!



Join us for lunch!

Questions?

Map and Geographic Information Center - MAGIC

University of Connecticut Libraries

369 Fairfield Way

Phone: 860-486-4589

E-mail: magic@uconn.edu

IM (AOL): uconnlibmagic

