

Cities, Schools, and Space

Andy Anderson (Academic Technology Services)
Hilary Moss (Departments of Black Studies & History)

Amherst College







- Urban history and education policy
- Potential thesis students encouraged!



Cities, Schools, & Space

Announcements

■Syllabus

Course Readings

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Syllabus

Part One: Cities

Week One: (1/25) Introduction to GIS; Defining Terms

Week Two: (2/1) The Origins of the Urban Crisis

Week Three: (2/8) The Federal Role in Spatial Inequality (Housing)

Week Four: (2/15) The Federal Role in Spatial Inequality, continued (Highways)

Week Five: (2/22) Why do some cities.... Fail? (Urban Renewal)

Week Six: (3/1)While other cities thrive? (Private Institutions)

Part Two: Schools

Week Seven: (3/8): Spatial Inequality and Schools

Week Eight: (3/15) No Class – Spring Break

Week Nine: (3/22) Court-Ordered Desegregation; Backlash Against Busing

Week Ten: (3/29): Road Trip to Cambridge

Week Eleven: (4/5) Replacing Race with Socio-Economic Considerations

Week Twelve: (4/12) Mapping Educational Opportunity and School Choice

Week Thirteen: (4/19) The Supreme Court Reversal

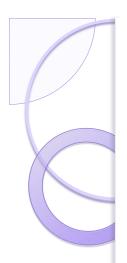
Week Fourteen: (4/26) Final Project Work

Week Fifteen: (5/3) Presentations and Celebrations

Final Projects Due



Web Page



Many Research Methodologies

- Archival analysis
- Oral interviews



• **GIS:** integrated into the course



Cambridge Public Library





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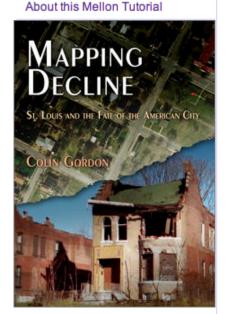
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Course Readings

Copies of all books will be available for purchase at <u>Amherst Books</u> and placed on 2-hour reserve at Frost Library. In addition, a number of shorter documents will be available through <u>the course web site</u>.

Colin Gordon, Mapping Decline: St. Louis and the Fate of the American City (Penn, 2008)

Richard D. Kahlenberg, <u>All Together Now: Creating Middle-Class Schools through Public School Choice</u> (Brookings, 2001)

J. Anthony Lukas, Common Ground: A Turbulent Decade in the Lives of Three American Families (Vintage, 1986)

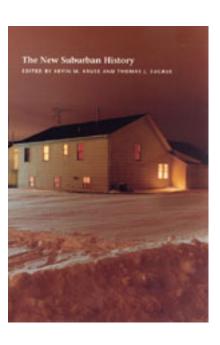
Margaret Pugh O'Mara, <u>Cities of Knowledge: Cold War Science and the Search for the Next Silicon Valley</u> (Princeton, 2005)

Thomas J. Sugrue and Kevin Kruse, eds. *The New Suburban History* (Chicago, 2006)









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Students and parent at Tobin School, Cambridge



Web
Page
(Restricted)

E-reserves for COLQ-32 'Cities, Schools, & Space'

≑ E-Reserve	‡ Туре	 Due Date
Fisk, Edward. "Controlled Choice in Cambridge, Massachusetts," in Divided We Fail: Coming Together through Public School Choice, 167-208. New York: Century Foundation Press, 2002.	人	02/01
O'Sullivan, David, and David Unwin. "The Elements of Statistics." In Geographic information Analysis, 384-411. Hoboken, New Jersey: John Wiley & Sons, 2003.	人	02/01
Hillier, Amy. "Redlining and the Home Owners' Loan Corporation." Journal of Urban History 29, no. 4 (2003): 394-420.	3	02/08
Hillier, Amy. "Redlining in Philadelphia." In Past Time, Past PlaceGIS for History, edited by Anne Kelly Knowles, 79-92. Redlands: ESRI Press, 2002.	人	02/08
O'Sullivan, David, and David Unwin. "The Pitfalls and Potentials of Spatial Data." In Geographic information Analysis, 26-49. Hoboken, New Jersey: John Wiley & Sons, 2003.	人	02/08
Mohl, Raymond A. "Planned DestructionThe Interstates and Central City Housing." In From Tenements to the Taylor HomesIn Search of an Urban Housing Policy in Twentieth-Century America edited by John F. Bauman, Roger Biles and Kristin Szylvian, 226-245. University Park, PA: The Pennsylvania State University Press, 2000.	, <u>,</u>	02/15
O'Sullivan, David, and David Unwin. "Fundamentals: Maps as Outcomes of Processes." In Geographic information Analysis, 51-66, 71, 73-75. Hoboken, New Jersey: John Wiley & Sons, 2003.	人	02/15
Highsmith, Andrew R. "Demolition Means Progress: Urban Renewal, Local Politics, and State-Sanctioned Ghetto Formation in Flint, Michigan." Journal of Urban History 35, no. 3 (2009): 348-368.	3	02/22
Hillier, Amy. "Residential Security Maps and Neighborhood Appraisals: The Homeowners' Loan Corporation and the Case of Philadelphia." Social Science History 29, no. 2 (2005): 207-233.	3	02/22
Lassiter, Matthew D. "De Jure/De Facto SegregationThe Long Shadow of a National Myth." In The Myth of Southern Exceptionalism, edited by Matthew D. Lassiter and Joseph Crespino, 25-48. New York, New York: Oxford University Press, Inc., 2010.	人	02/22
O'Sullivan, David, and David Unwin. "Area Objects and Spatial Autocorrelation." In Geographic information Analysis, 180-203. Hoboken, New Jersey: John Wiley & Sons, 2003.	人	02/22
Carriere, Michael. "Fighting the War Against Blight: Columbia University, Morningside Heights, Inc., and Counterinsurgent Urban Renewal." Journal of Planning History 10, no. 1 (2011): 5-29.	人	03/01
Winling, LaDale. "Students and the Second Ghetto: Federal Legislation, Urban Politics, and Campus Planning at the University of Chicago." Journal of Planning History 10, no. 1 (2010): 59-86.	人	03/01
Benjamin, Karen. "Suburbanizing Jim Crow: The Impact of School Policy on Residential Segregation." (Submitted).	W	03/08
Benjamin, Karen. Longview BrochureEasy to Buy., Submitted.	JPG	03/08
Erickson, Ansley T. "Building Inequality: The Spatial Organization of Schooling in Nashville, Tennessee." Journal of Urban History (Submitted).	人	03/08
Bell, Courtney. "Geography in Parental Choice." American Journal of Education 115, no. 4 (2009): 493-521.	人	04/12
Dougherty, Jack, and et al. "School Choice in Suburbia: Test Scores, Race, and Housing Markets." American Journal of Education 115, no. 4 (2009): 523-548.	J.	04/12

REDLINING AND THE HOME OWNERS' LOAN CORPORATION

AMY E. HILLIER University of Pennsylvania

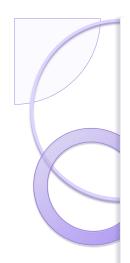
This article analyzes the impact of the residential security maps created by the Home Owners' Loan Corporation (HOLC) during the 1930s on residential mortgages in Philadelphia. Researchers have consistently argued that HOLC caused redlining and disinvestment in U.S. cities by sharing its color-coded maps. Geographic information systems and spatial statistical models were used to analyze address-level mortgage data from Philadelphia to determine if areas with worse grades actually had less access to residential mortgage credit as a result. Findings indicate that the grades on HOLC's map do not explain differences in lending patterns with the exception of interest rates, which were higher in areas colored red. Archival material and journal articles from the 1930s also reveal that lenders were avoiding areas colored red before HOLC made its maps, that HOLC's maps were not widely distributed, and that lenders had other sources of information about real estate risk levels.

Keywords: redlining; discrimination; Home Owners' Loan Corporation; Federal Housing Administration;



Philadelphia

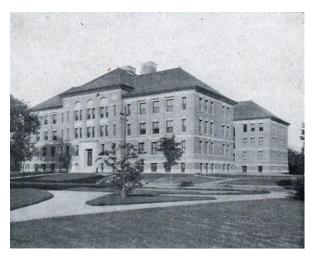
Web Page



In America, a child's address, more than any other factor, often determines what kind of public education he or she will receive.

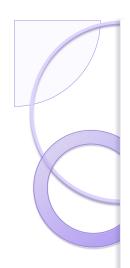


Black School in Louisa County, Virginia, ca. 1935 (LOC/NAACP)



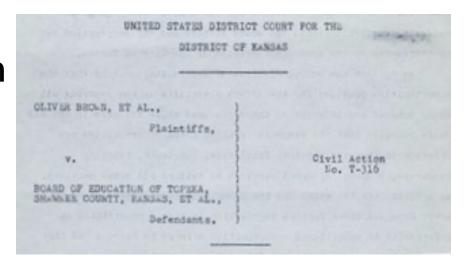
Cambridge, Massachusetts Latin School, 1916 (CHLS Yearbook)





De Jure Segregation

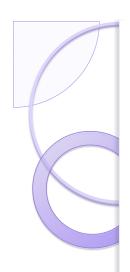
Legal segregation of public schools by race banned



nationwide in 1954 — separate, not equal

 Unequal educational opportunities still exist for a variety of reasons



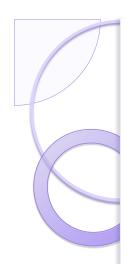


De Facto Segregation

- Federal policies that expanded suburbs and facilitated "white flight" and job loss:
 - Mortgage assistance
 - Investment depreciation
 - Highway construction
 - Public housing
 - Urban renewal





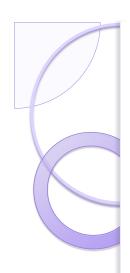


Disguised Segregation

- Subtle school segregation can still exist:
 - Shifting school catchment areas
 - Building new schools in white/upper-class areas at the expense of existing facilities
 - Educational tracking of students







Cambridge, Massachusetts

A progressive city
 of 110,000 people



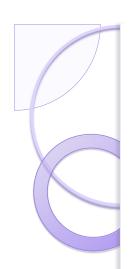


Massachusetts Institute of Technology



Home to two major institutions of higher education: Harvard University and the Massachusetts Institute of Technology.

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Cambridge Demographics

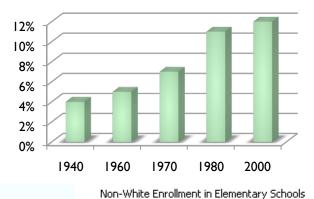
Black and Hispanic
 populations substantially
 increased in the late

20th century

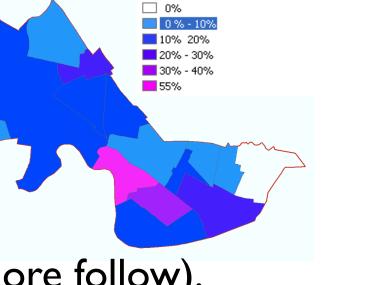
• 1965 state law:

One school already

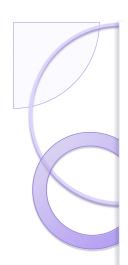
racially imbalanced (more follow).



Black Population







Cambridge & Controlled Choice

The School Committee

temporized for more than a decade, while

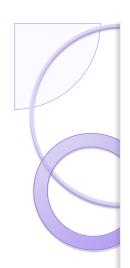


Boston struggled with school bussing.

- In 1981 implemented Controlled Choice:
 - Completely open enrollment, within 10% of average district-wide minority enrollment.
 - Parents chose top four preferred schools.

 Cities, Schools, and Space





Learning GIS: Basic Skills

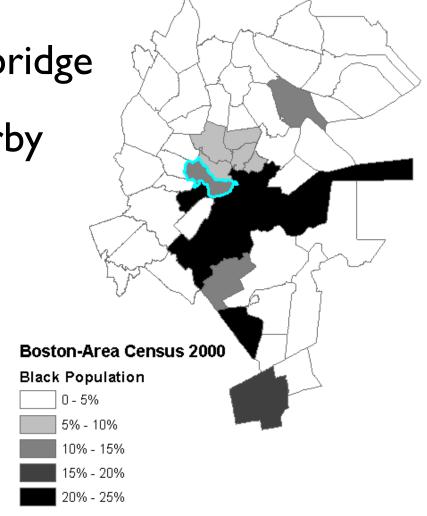
 How does Cambridge compare to nearby
 communities?

Census.gov

1990 - 2010

NHGIS.org

≤ 1980





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Tobin School Cafeteria, Cambridge

GIS for Week 3 (2/8)

Due date: February 8, 2011 at 2:00 pm.

- Using Excel, copy the table "Demographics of Elementary Schools in Cambridge, Massachusetts, 2000-2001" from p. 171 of <u>Edward B. Fisk</u>, "Controlled Choice in Cambridge, Massachusetts". Format the table so that it can be used with ArcMap.
- Add the layer
 Cambridge_Schools_2000.shp
 to your map, and label it.
- Join the Fisk table to the Cambridge School Districts layer.
- Symbolize the Schools layer by the percentage of students receiving subsidized lunch, using Quantities — Proportional Symbols.

Read more »

P	ORTION O	F						
	DISTRICT	NATIVE		AFRICAN			OTHER	
	TOTAL	AMERICAN	ASIAN	AMERICAN	HISPANIC	WHITE	BLACK	LUNCH
Agassiz	8	1	16	18	9	43	13	30
Cambridgeport	6	1	8	26	10	50	5	19
Fitzgerald	5	1	10	22	7	43	17	60
Graham and								
Parks	7	1	8	14	6	46	25	31
Haggerty	5	1	8	26	7	48	9	30
Harrington	10	0	3	21	12	48	15	77
Kennedy	10	2	3	1 <i>7</i>	43	32	5	64
King	5	0	21	31	10	24	14	79
King Open	6	1	14	26	5	49	5	25
Longfellow	8	0	10	20	26	35	9	53
Morse	7	0	26	25	8	35	6	51
New Academy	5	0	4	39	20	25	13	72
Peabody	8	1	24	17	4	46	8	25
Tobin	10	0	11	34	10	34	10	48
TOTAL	100	1	11	23	1.4	40	11	48

TABLE 1

DEMOGRAPHICS OF ELEMENTARY SCHOOLS IN CAMBRIDGE.

Source: Data obtained from Cambridge Public Schools Office of Development Assessment.



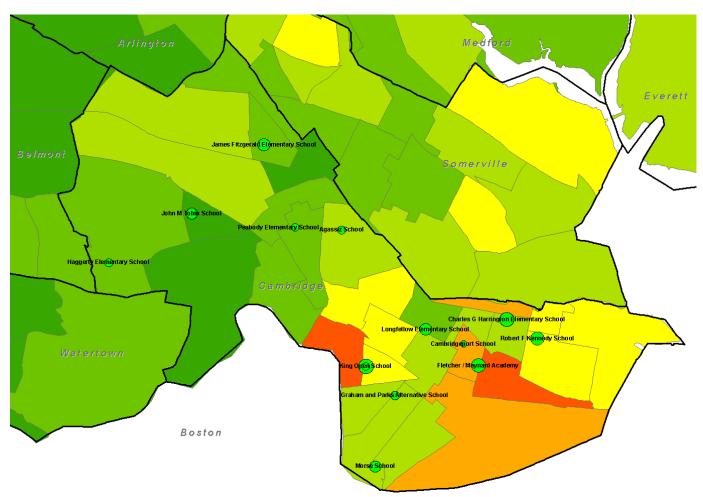
Web Page Creating GIS Data from Text

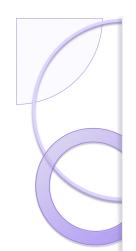
Cities, Schools, & Space Announcements Syllabus Course Readings E-reserves Library Resources Assignments Discussion Dropbox Expectations & Requirements Faculty Information Class Roster About this Mellon Tutorial Legend Cambridge Schools 2000: % Students Receiving Subsidized Lunch 10 50 100 Massachusetts Census Tracts 2000 Poverty Rate <= 5% 5% - 10% 10% - 15% 15% - 20% 20% - 25% 25% - 30% >= 30% Web Page

GIS for Week 3 (2/8)

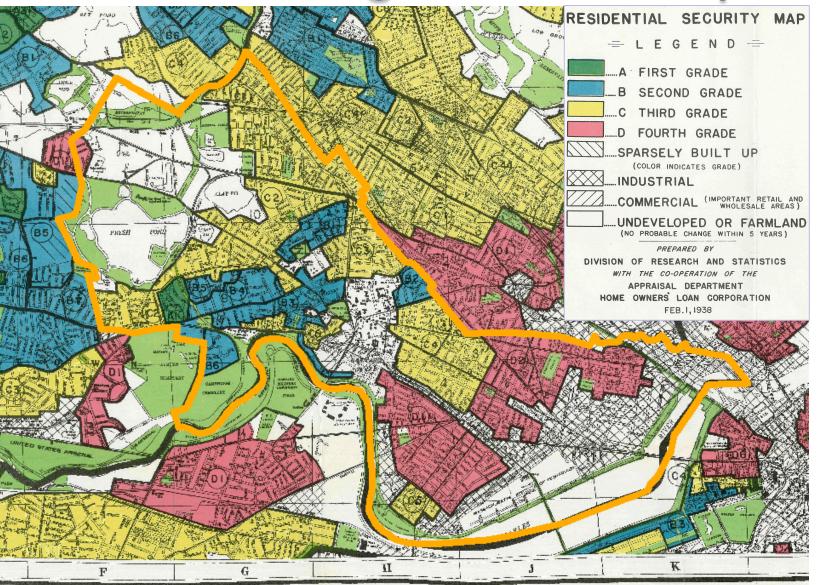
< previous

- In a web browser, visit the web address <u>www.census.gov</u>, and download the table
 P87. Poverty Status in 1999 by Age for Massachusetts, Middlesex County, Census tracts.
- Zoom your map to Cambridge, and make sure that its census tracts use the symbology
 Quantities Graduated colors, and a set of distinguishable poverty classes.
- 7. How do the schools with a larger percentage of students receiving subsidized lunch compare with the higher-poverty areas of Cambridge?



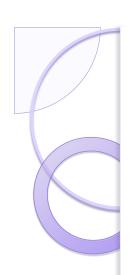


Georeferencing Historical Maps





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Extracting Map Features

• Interstate 695:

through east

Cambridge

1967 map of

properties affected

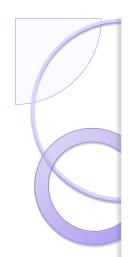
Stopped in 1971



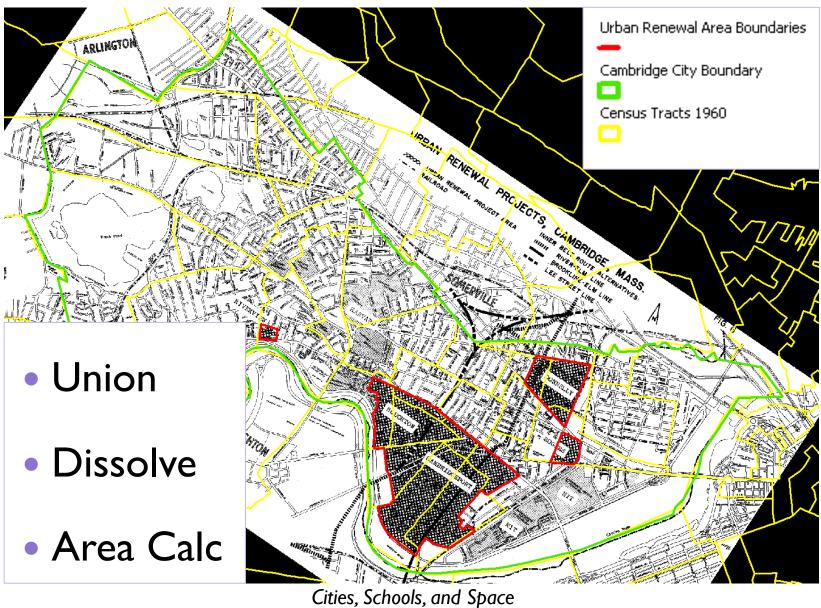
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The "Inner Belt"

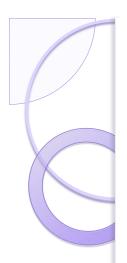
Parcel	Owner	Census_Name	Address	Home	Relation	Sex	ColorRace	Age	Birthplce	FatherBP	MotherBP	Language
89-65	Opelia Dumas	_										
89-66	Thomas J. Cardullo & Alice A. Cardullo	Thomas Cardullo	216 Washington S	R	Head	M	W	35	Italy	Italy	Italy	Italian
89-67	Teodore K. Johnson, Lillian A. Johnson, Walter K. Johnson	n, & Helen M. Clark										
89-7	Anufras Nemeikstis & Eva Nemeikstis	Anupras Nemeikates	330 Columbia Stre	0	Head	M	W	37	Lithuania	Lithuania	Lithuania	Lithuanian
89-8	Itala B. Lashlar C. Assault A. Lashlar						1			1		
89-9	Compare											A
89-10		tom		4	4	- la		- 1 (J 7/1	60 K		
89-85	Compare	rann	1162	- 1				1	7 7 1 1			V
89-86	Compare	IGIIII				\Box						•
89-14						-						
89-15	Lillian A. Mahon	Lillian Mahon	275 River Street		Wife	F M	N		Barbados	Barbados	Barbados	English
89-16	John S. Moseley, James A. Betts, and Athelston I.O. Mose		63 Magee Street		Son	M	N N		Massachusetts	Massachusetts	Massachusetts	English
89-17	John S. Moseley, Florence G. Moseley, and Athelston I.O.		235 Western Aven	ĸ	Head	М	IN	3/	Barbados	Barbados	Barbados	English
89-18 89-19	John S. Moseley, Florence G. Moseley, and Athelston I.O. Clyde A. Henry & Theresa T. Henry	Moseley										
89-82	Alphonso Wallcott & Elmira B. Wallcott	Alphonso Walcott	15 Douglass Stree	D	Head	М	N	42	West Indies	West Indies	West Indies	English
89-81	Joseph Nunziato, Trustee of Margaret Nunziato Trust	Joseph Nunziato	50 Howard Street		Son	M	w		Massachusetts	Italy	Italy	Italian
89-21	John E. Scott & Edna A. Scott	John E Scott	91 Inman Street		Brother-in-law		N			British West Indies		
89-22	Doris A. Kelley	John E Beote	51 Innian Street		Diocitor III Iaw				British West Indies	Difficient West Indies	British West Indies	English
	Angela Leonardo											
89-24	Catherine T. Ellison & Frances E. Irwin	Francis E. Irwin	79 Auburn Street	0	Head	М	w	18	Massachusetts	Masschusetts	England	English
	Minna Yogel		77710001110111011								Lingiania	2.19.10.1
89-31	Roman Catholic Archbishop of Boston Corp. Sole											
89-89	Roman Catholic Archbishop of Boston Corp. Sole											
89-72	Joseph N. Payne & Sola V. Payne											
89-83	Samuel L. Merchant & Althea D. Merchant	Samuel Merchant	11 Worcester St.	0	Son	M	N	19	Massachusetts	Virginia	Canada-English	English
89-84	Samuel L. Merchant & Althea D. Merchant	Samuel Merchant	11 Worcester St.	0	Son	M	N	19	Massachusetts	Virginia	Canada-English	English
89-34	Alfred S. Mahon	Alfred Mahon	275 River Street	R	Son	M	N	5	Massachusetts	Barbados	Barbados	English
89-35	Abbie A. Coleman											
89-36	Rufus Bowen & Martha E. Bowen	Rufus Bowen	20 Soden Street	R	Husband	M	N	33	Barbados	Barbados	Barbados	English
89-37	Sarah A. Bates, Ronald C. Bates, Barbara A. Bates, & Eliz	abeth F. Bates										
89-38	Della L. Brown											
89-39	Della L. Brown											
89-40	Della Louise Brown											
	Jennie Fieler & Elizabeth Kilpatrick											
89-42	Benjamin Chalfen											
89-43	Mildred Driscoll & Lillian B. Driscoll	Mildred Driscoll	3 Suffolk Street	0	Daughter	F	W	20	Massachusetts	Massachusetts	Massachusetts	English
89-44	Benjamin Chalfen											
89-79	Charles J. Fanning & Mary C. Fanning											
89-80	Mary M. Curtin	Dishaud 3. Laulda	0.0	^	C		***	- 10	Manage de la contraction	Tulah Fusa Chaha	Consider	English
89-78	Richard J. Larkin & Mary J. Larkin	Richard J. Larkin	9 Grenough Avenu	0	Son	М	w	10	Massachusetts	Irish Free State	Sweeden	English
89-46	Antonio Crendone											
89-87	Walter & Mary A.											
89-54 89-76	Lester A. Randall & Beatrice G. Randall Josephina Spampinato	Josephine Spampinato	210 Harvard Cour	D	Sister in-law	F	w	20	Italy	Italy	Italy	Italian
89-91	Joseph B. Maynard	Joseph Maynard	134 Hampshire St		Son	M	W		Massachusetts	Massachusetts	Massachusetts	English
89-90	Roman Coffon & Mary E. Coffon	Roman Coffin	266 Windsor Stree		Husband	M	w		Russia	Russia	Russia	Russian
89-56	Edith H.E. Pedro, Helen J. O'Brien, & Rose C. Maraca	Koman Comm	200 Willuson Street	K	Husbariu	Pi	**	- 33	Kussia	Kussia	Kussia	Russiali
89-57	Anna M. Hunt, Winifred Godfrey, Sarah J. Murphy, M. Lor	raine Clifford, & Claire 1	. Murnhy									
89-58	Iva W. Nelson & Elizabeth C. Nelson	raine cimora, a ciane :	. marpiny									
	Murray L. Yogel											
89-75	Murray L. Yogel											
89-73	Murray L. Yogel											
89-60	Fernando J. Monteiro											
89-61	Clara Finstein	Clara Finstein	131 Columbia Stre	R	daughter	F	W	33	Massachusetts	Austria	Austria	Yiddish
89-62	Willie Jane Hall & Willie Jane Hall, Trustee for Anthony Wy	yche & Anthony Wyche			_							
89-63	Suzanne R. Greene & Paul A. Revalson	Paul A. Revalson	9 Worcester Stree	R	Great nephew	M	N	12	Massachusetts	Massachusetts	Massachusetts	English
89-64	Muriel G. Raynor & Samuel L. Merchant	Samuel Merchant	11 Worcester St.	0	Son	M	N	19	Massachusetts	Virginia	Canada-English	English
89-5	Ora H. Jackson & Florence H. Agard											
89-6	Berardino M. Santeusanio & Antoinette Santeusanio											
88-20	Rose Cohen											
88-51	Mary O. DeGugliemo		793 Cambridge St		Wife	F	W		Italy	Italy	Italy	Italian
88-52	Mary O. DeGugliemo	Mary O. DeGuglielmo	793 Cambridge St	0	Wife	F	W	44	Italy	Italy	Italy	Italian
88-27	John E. Auflero & Gilda C. Auflero			_				_				
88-38	Anthony Colosimo, Elizabeth Colosimo, & Bruno Colosimo	Anthony Colosimo	21 Park Ave	0	Head	M	W	38	Italy	Italy	Italy	Italian



What Influences Urban Renewal?





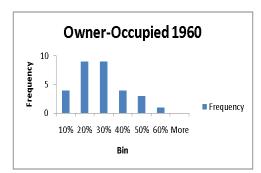


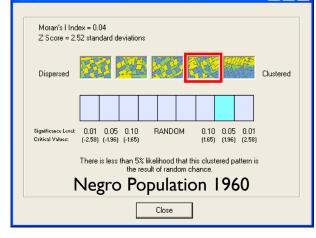
Possible Inputs to Urban Renewal

- Data from the 1960 census:
 - Older Housing (Before 1940)
 - Housing Value
 - Owner-Occupied Housing
 - Negro Population
- Data requirements:



Spatially auto-correlated: use ArcGIS' Moran's I

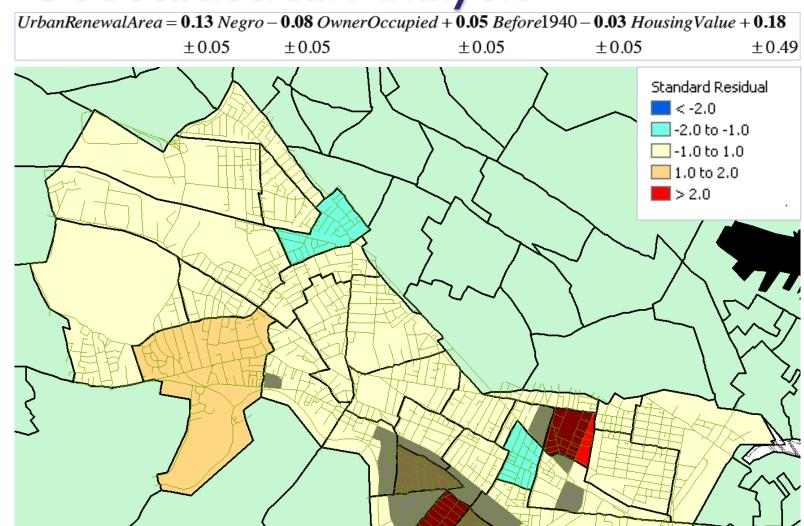




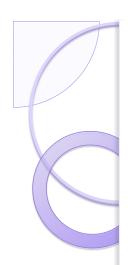
Spatial Autocorrelation (Global Moran's 1)



Geostatistical Analysis







Student Final Projects

20-30 page paper that must include some GIS, and



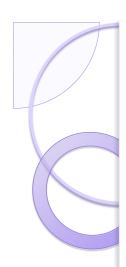
Cambridgeport School, Cambridge

 How did race, property, and educational opportunity become entangled in Cambridge?

preferably addresses these questions:

• Why and how did this community respond?





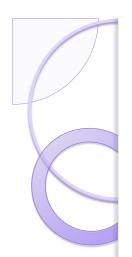
Student Final Projects



Peabody School, Cambridge

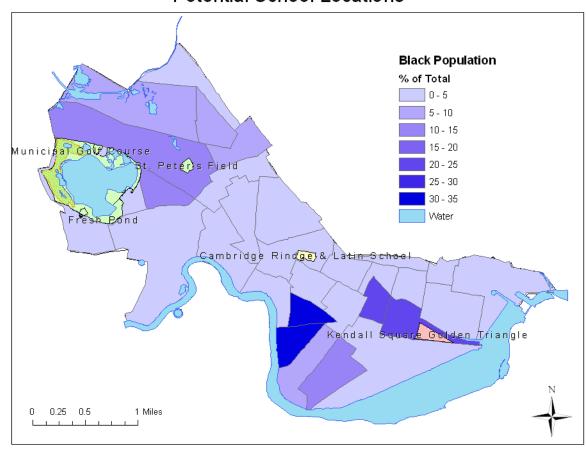
- MIT, Cambridge, and Urban Development: Examining a Town-Gown Relationship
- The Blinding Powers of Race: An Examination of the Effects of Racial Violence and Local Politics on Cambridge's Pursuit for a Quality Education in Its Secondary Institutions
- Cities, Higher Education Institutions, and Space (and Space): NASA in Kendall Square, Cambridge
- "The Dilemma of Difference": The Bifurcation of Racial and Linguistic Integration and its Effects on Bilingual Education in Cambridge, Massachusetts from 1978-1981





Student Project: The Merger of Cambridge Rindge and Latin High Schools — Emily Pawlowski

Potential School Locations

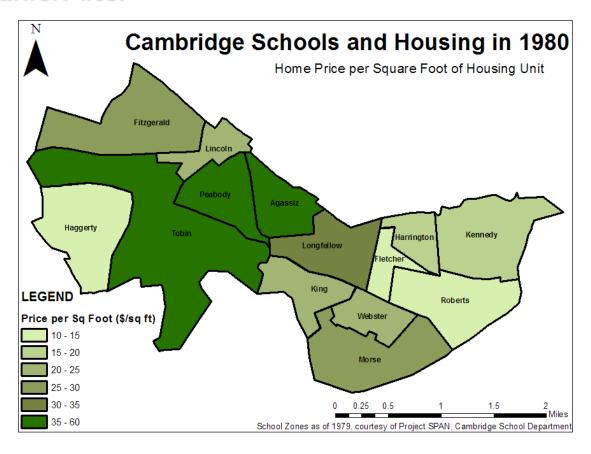




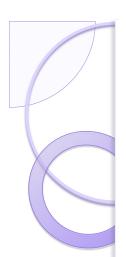


Student Project: Erasing the Lines: The Story of School Choice and Housing in the American City

— Daniel Alter







Responding to the Inner Belt Hwy.

—Yinan Zhang

	Lee	River- Elm	Brookline- Elm	Portland- Albany
Total Population	17516	24526	21864	15666
White	87%	91%	92%	94%
Negro	11%	8%	7%	5%
Other	2%	1%	1%	1%
			<u> </u>	

Inner Belt Highway Alternatives

Cambridge City Boundary

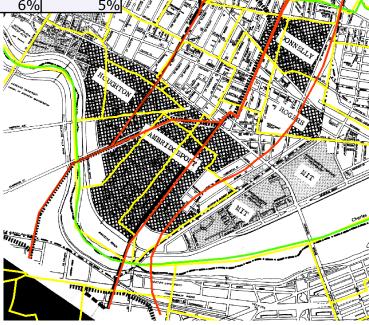
Census Tracts 1960



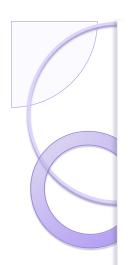
6474	4298
17%	15%
2%	1%
76%	79%
6%	5%
	17% 2% 76%



- Tract-based
- Two characteristics stands out!





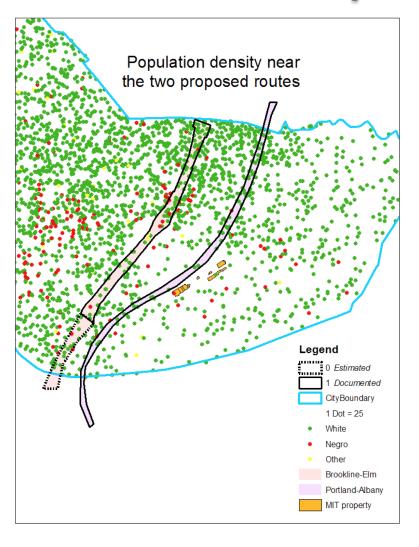


Responding to the Inner Belt Hwy.

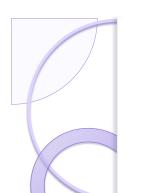
—Yinan Zhang

• Final Alternatives:

- MIT doesn't want the highway adjacent to their campus.
- The Brookline-Elm neighborhoods don't want it, either!
- End result: neither is built!

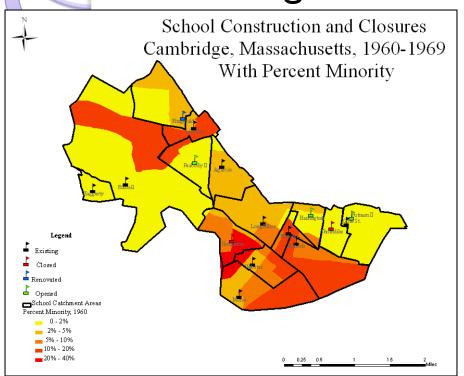


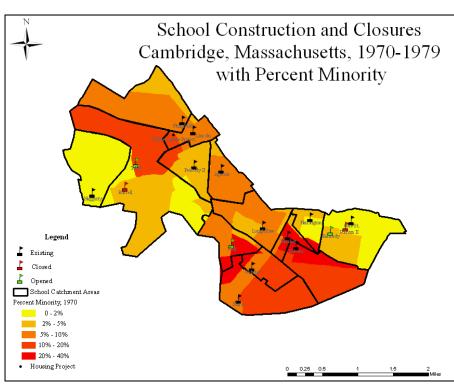




What Influenced School Building?

- Josie Fisher
- During the 1960s and 1970s:



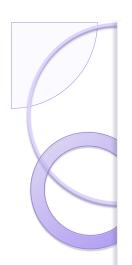


Six new or reconstructed schools



• But many schools in worse condition!

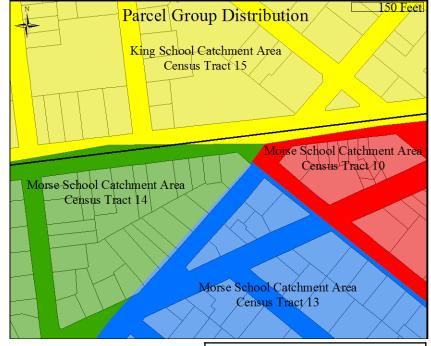
Cities, Schools, and Space



What Influenced School Building?

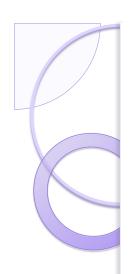
- Josie Fisher
- Parcel Analysis
 - Distribute census info by housing type on parcels

School District	Minority Reported	Minority from Census Analysis	Difference from Census Analysis
Putnam-Gore St.	0	3	100.00%
Thorndike	0	8	96.05%
Haggerty	5	4	-26.35%
Harrington	47	59	19.54%
Fitzgerald	77	90	14.26%
Longfellow	65	77	15.34%
Agassiz	31	30	-3.63%
Peabody	80	48	-65.68%
Russell	85	125	32.15%
Morse	95	105	9.19%
Fletcher	72	126	43.16%
Lincoln	50	64	21.76%
Roberts	191	74	-157.95%
Webster	152	110	-38.59%
Houghton	273	299	8.78%
Total	1224	1222	-0.14%



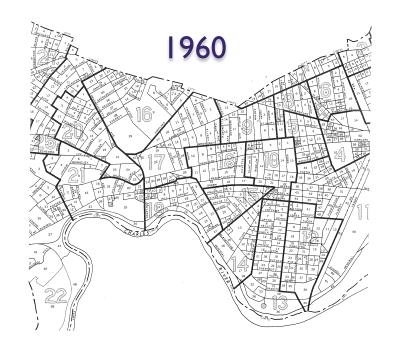
School District	Average Income
Russell	\$14,339.69
Peabody	\$12,250.89
Agassiz	\$10,520.23
Haggerty	\$8,881.98
Lincoln	\$8,714.56
Longfellow	\$8,337.93
Fitzgerald	\$8,211.01
Webster	\$7,613.17
Morse	\$7,460.60
Putnam-Gore St.	\$7,314.95
Roberts	\$7,252.42
Fletcher	\$7,239.24
Harrington	\$6,960.14
Houghton	\$6,959.93
Thorndike	\$6,871.54





Current Work

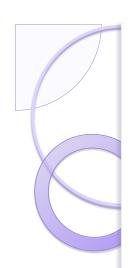
New Discovery:Some block-leveldata — basic



demographics and housing — available for earlier decades.

 Active digitization project, led by JF and YZ.





Future Research...

 Block-level data reveals why one

Cambridge Census Blocks 1960 Nonwhite Head of Household Unpopulated Russell Longfellow School Committee member Roberts

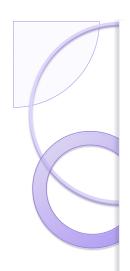
Cambridge Public School District Elementary Schools 1965

made an accusation of de jure segregation.

 Peabody & Agassiz: "Academically Talented", many Harvard-associated families.



Russell boundary in place since <= 1946.



Thanks!

- Cambridge GIS! Jeff Amero, et al.
- Cambridge Assessor
- Cambridge Historical Society
- MIT Archives
- National Historical GIS @ U. Minn
- Mellon Foundation

