

Cities, Schools, and Space

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

Amherst College



• A research seminar for juniors



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





Many Research Methodologies

- Archival analysis
- Oral interviews

............

• GIS: integrated

into the course



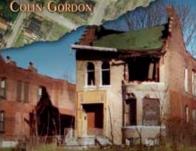


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About this Mellon Tutorial



ST. LOUIS AND THE FATE OF THE AMERICAN CITY





Course Readings

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

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

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

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)







WINNER OF THE PULITZER PRIZE **J.ANTHONY LUKAS**

Cities of Knowledge



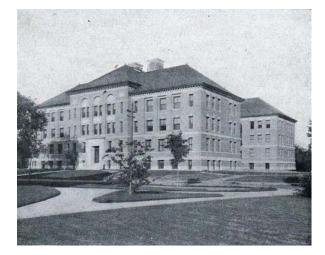


E-reserves for COLQ-32 'Cities, Schools, & Space' Cities, Schools, & Space E-Reserve Type Due Date Announcements Fisk, Edward. "Controlled Choice in Cambridge, Massachusetts," in Divided We Fail: Coming Together Syllabus ۶., 02/01 through Public School Choice, 167-208. New York: Century Foundation Press, 2002. Course Readings O'Sullivan, David, and David Unwin. "The Elements of Statistics." In Geographic information Analysis, 7 02/01 384-411. Hoboken, New Jersey: John Wiley & Sons, 2003. E-reserves Hillier, Amy. "Redlining and the Home Owners' Loan Corporation." Journal of Urban History 29, no. 4 3 02/08 Library Resources (2003): 394-420. Assignments Hillier, Amy. "Redlining in Philadelphia." In Past Time, Past Place--GIS for History, edited by Anne 人 02/08 Kelly Knowles, 79-92. Redlands: ESRI Press, 2002. Discussion O'Sullivan, David, and David Unwin. "The Pitfalls and Potentials of Spatial Data." In Geographic 02/08 بر Dropbox information Analysis, 26-49. Hoboken, New Jersey: John Wiley & Sons, 2003. Expectations & Requirements Mohl, Raymond A. "Planned Destruction--The Interstates and Central City Housing." In From Tenements to the Taylor Homes--In Search of an Urban Housing Policy in Twentieth-Century America, 入 02/15 Faculty Information edited by John F. Bauman, Roger Biles and Kristin Szylvian, 226-245. University Park, PA: The Pennsylvania State University Press, 2000. Class Roster O'Sullivan, David, and David Unwin. "Fundamentals: Maps as Outcomes of Processes." In Geographic 7 02/15 About this Mellon Tutorial information Analysis, 51-66, 71, 73-75. Hoboken, New Jersey: John Wiley & Sons, 2003. Highsmith, Andrew R. "Demolition Means Progress: Urban Renewal, Local Politics, and State-02/22 Sanctioned Ghetto Formation in Flint, Michigan." Journal of Urban History 35, no. 3 (2009): 348-368. Hillier, Amy. "Residential Security Maps and Neighborhood Appraisals: The Homeowners' Loan 02/22 Corporation and the Case of Philadelphia." Social Science History 29, no. 2 (2005): 207-233. Lassiter, Matthew D. "De Jure/De Facto Segregation--The Long Shadow of a National Myth." In The Myth of Southern Exceptionalism, edited by Matthew D. Lassiter and Joseph Crespino, 25-48. New ٨. 02/22 York, New York: Oxford University Press, Inc., 2010. O'Sullivan, David, and David Unwin. "Area Objects and Spatial Autocorrelation." In Geographic ٨., 02/22 information Analysis, 180-203. Hoboken, New Jersey: John Wiley & Sons, 2003. Carriere, Michael. "Fighting the War Against Blight: Columbia University, Morningside Heights, Inc., 入 03/01 and Counterinsurgent Urban Renewal." Journal of Planning History 10, no. 1 (2011): 5-29. Students and parent at Winling, LaDale. "Students and the Second Ghetto: Federal Legislation, Urban Politics, and Campus 7 03/01 Planning at the University of Chicago." Journal of Planning History 10, no. 1 (2010): 59-86. Tobin School, Cambridge Benjamin, Karen. "Suburbanizing Jim Crow: The Impact of School Policy on Residential Segregation." W 03/08 (Submitted). JPG 03/08 Benjamin, Karen. Longview Brochure--Easy to Buy., Submitted. Erickson, Ansley T. "Building Inequality: The Spatial Organization of Schooling in Nashville, ٨. 03/08 Tennessee." Journal of Urban History (Submitted). Web Bell, Courtney. "Geography in Parental Choice." American Journal of Education 115, no. 4 (2009): ٨., 04/12 Page 493-521. Dougherty, Jack, and et al. "School Choice in Suburbia: Test Scores, Race, and Housing Markets." (Restricted) 7 04/12 American Journal of Education 115, no. 4 (2009): 523-548.

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

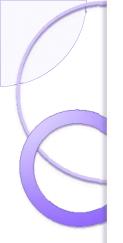






Cambridge, Massachusetts Latin School, 1916 (CHLS Yearbook)



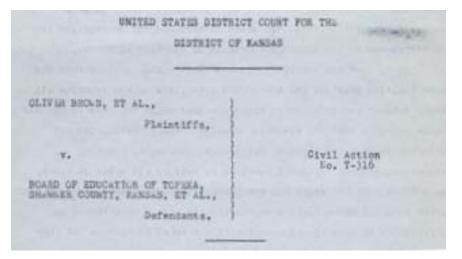


De Jure Segregation

Legal segregation

of public schools

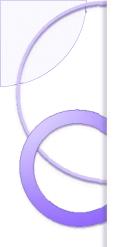
by race banned



nationwide in 1954 — separate, not equal

 Unequal educational opportunities still exist for a variety of reasons





De Facto Segregation

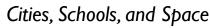
Federal policies that expanded suburbs

and facilitated "white flight" and job loss:

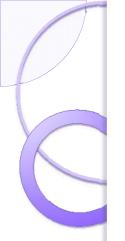
Mortgage assistance

- 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







I965: Schools already racially imbalanced

increased in the late 20th century

	populations	substantially
--	-------------	---------------

ack	and	Hispanic	



of 110,000 people

Cambridge,

Massachusetts

• A progressive city



Year	Black Population
1940	4%
1960	5%
1970	7%
1980	11%
2000	12%



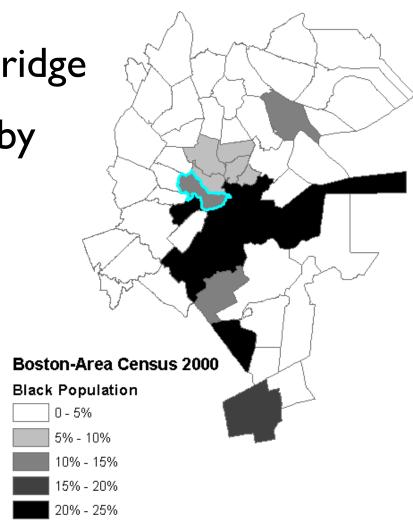
Learning GIS: Basic Skills

• How does Cambridge

compare to nearby

communities?

- Census.gov
 - 1990 2010
- NHGIS.org
 - ≤ 1980



Creating GIS Data from Text

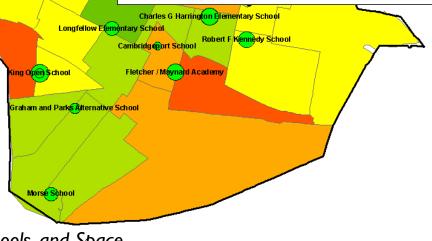
Arling	Demod		CS OF ELE	
		PORTION C DISTRICT TOTAL	NATIVE	A
	Agassiz	8	1	
	Cambridgepor	t 6	1	
	Fitzgerald	5	1	
	James Fitzgeral (Elementary School Graham and Parks	7	1	
at at	Haggerty	5	1	
Legend	Harrington	10	0	
Cambridge Schools 2000:	Kennedy	10	2	
% Students Receiving Subsidized Lunch	King	5	0	
	King Open	6	1	
50 50	John M Tobin School Longfellow	8	0	
	Peabody Elementary School Agass School Morse	7	0	
	New Academy	5	0	
Massachusetts Census Tracts 2000 Haggerty Eleftientary School	Peabody	8	1	
Poverty Rate	Tobin	10	0	
≤= 5% 5% - 10%	Cambridge	100	1	
5% - 10% 10% - 15% 15% - 20%	Source: Data ob	tained fro	om Cambrid	ge 1
20%-25% 25%-30% ≥= 30% Wateriown	Longfellow Efementary School Cambridgeport S	chool R	on Elementar tobert F Kieni	_
	King Open School Fletcher / May	hard A cad	lemy	
	Graham and Parks Atternative School			
	Boston			
AMHERST A	Morse Sphool			
	Citize Schools and Stars			
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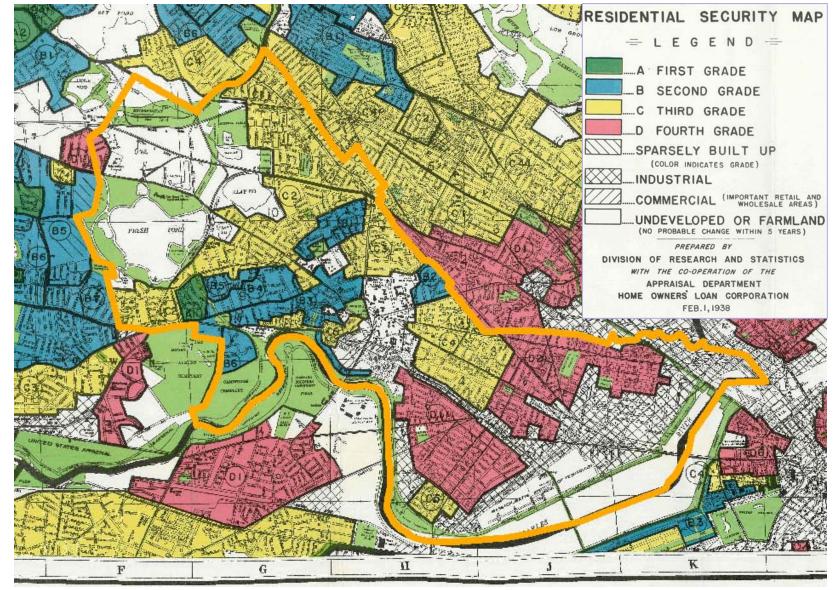
EMENTARY SCHOOLS IN CAMBRIDGE, 2000-2001 (PERCENTAGE) OTHER AFRICAN AMERICAN HISPANIC WHITE BLACK LUNCH ASIAN

TABLE 1

ge Public Schools Office of Development Assessment.



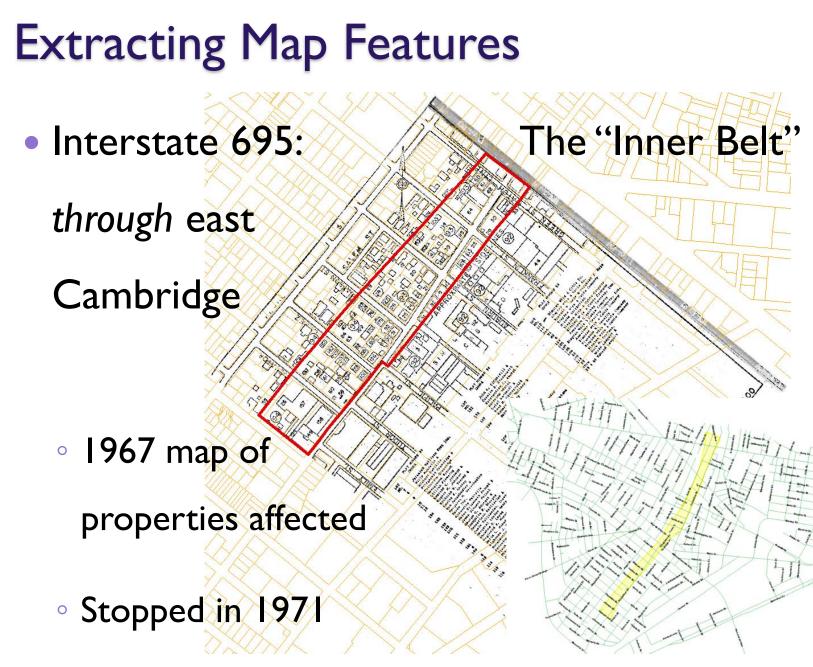
Georeferencing Historical Maps





Cities, Schools, and Space

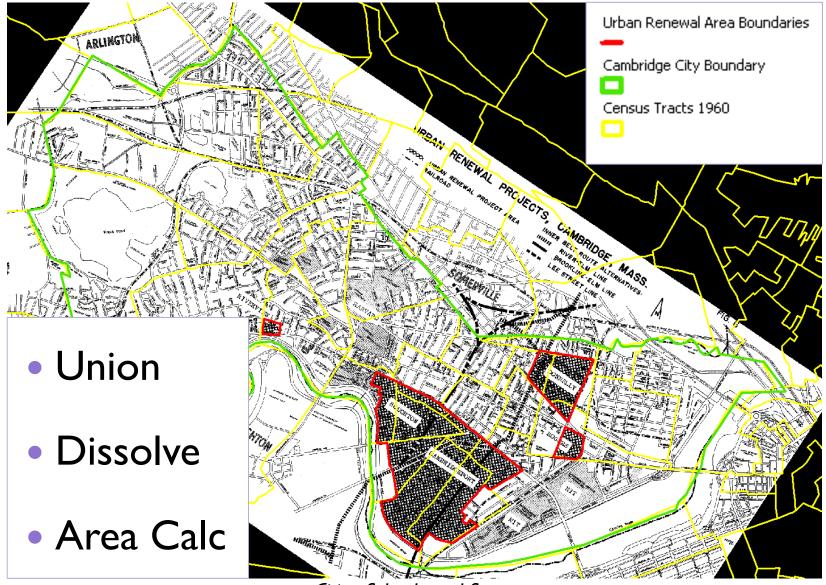






Parcel	a behavior di francessa di seconda	Census_Name	Address	Home	Relation	Sex	ColorRace	Age	Birthplce	FatherBP	MotherBP	Language
89-65	Opelia Dumas	2 992		12		100	1.22	1.20	2010	200	-211.1	1200
89-66		Thomas Cardullo	216 Washington S	R	Head	м	W	35	Italy	Italy	Italy	Italian
89-67	Teodore K. Johnson, Lillian A. Johnson, Walter K. Johnson											
89-7	Anufras Nemeikstis & Eva Nemeikstis	Anupras Nemeikates	330 Columbia Stre	0	Head	м	W	37	Lithuania	Lithuania	Lithuania	Lithuanian
89-8			-			-		-				
89-9	Compare						in a second s				e entrette entrette entrette entrette	·
89-10		tom		- 1		- 6				CON		·
89-85											INUN	-
89-86												•
89-14	Bartholomew Masse					-	1					
89-15		Lillian Mahon	275 River Street		Wife	F	N		Barbados	Barbados	Barbados	English
89-16	John S. Moseley, James A. Betts, and Athelston I.O. Mose		63 Magee Street		Son	M	N		Massachusetts	Massachusetts	Massachusetts	English
89-17	John S. Moseley, Florence G. Moseley, and Athelston I.O.		235 Western Aven	R	Head	M	N	37	Barbados	Barbados	Barbados	English
89-18	John S. Moseley, Florence G. Moseley, and Athelston I.O.	Moseley				-						
89-19	Clyde A. Henry & Theresa T. Henry	A1 -1	IT DOLLARS		14.00			10	146	Marca Bardian	111 - L T - 11	
89-82		Alphonso Walcott	15 Douglass Stree		Head	M	N		West Indies	West Indies	West Indies	English
89-81		Joseph Nunziato	50 Howard Street		Son	M	W		Massachusetts	Italy	Italy Rubberry	Italian
89-21		John E Scott	91 Inman Street	R	Brother-in-law	M	N	25	British West Indies	British West Indies	British West Indies	English
89-22	Doris A. Kelley					-						
89-23	Angela Leonardo			-	1000		1227			2000-0000000000000000000000000000000000	120000	
89-24		Francis E. Irwin	79 Auburn Street	0	Head	м	w	18	Massachusetts	Masschusetts	England	English
89-25	Minna Yogel		-			-	-					-
89-31	Roman Catholic Archbishop of Boston Corp. Sole											
89-89	Roman Catholic Archbishop of Boston Corp. Sole					-	1					
89-72	Joseph N. Payne & Sola V. Payne	20 100 100 10	100000 00 0000		N 14	10.51			1	122 11 12	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 000
89-83		Samuel Merchant	11 Worcester St.		Son	м	N		Massachusetts	Virginia	Canada-English	English
89-84		Samuel Merchant	11 Worcester St.		Son	м	N		Massachusetts	Virginia	Canada-English	English
89-34		Alfred Mahon	275 River Street	R	Son	м	N	5	Massachusetts	Barbados	Barbados	English
89-35	Abbie A. Coleman			-						- 1040-01400-0		
89-36		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											
89-41	Jennie Fieler & Elizabeth Kilpatrick					-						
89-42	Benjamin Chalfen											
89-43		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											
89-78		Richard J. Larkin	9 Grenough Avenu	0	Son	м	W	10	Massachusetts	Irish Free State	Sweeden	English
89-46	Antonio Crendone				1	1111			1000-100-0401-040-140100-0	 30.00000000000000000000000000000000000		
89-87	Walter & Mary A.											
89-54	Lester A. Randall & Beatrice G. Randall											
89-76	Josephina Spampinato	Josephine Spampinato	210 Harvard Squa	R	Sister in-law	F	W	30	Italy	Italy	Italy	Italian
89-91		Joseph Maynard	134 Hampshire St		Son	м	W		Massachusetts	Massachusetts	Massachusetts	English
89-90		Roman Coffin	266 Windsor Stree	R	Husband	M	w	33	Russia	Russia	Russia	Russian
89-56	Edith H.E. Pedro, Helen J. O'Brien, & Rose C. Maraca											
89-57	Anna M. Hunt, Winifred Godfrey, Sarah J. Murphy, M. Lorr	raine Clifford, & Claire .	J. Murphy									
89-58	Iva W. Nelson & Elizabeth C. Nelson		7 AL & 200 X 200 B 2									
89-58A	Murray L. Yogel											
89-75	Murray L. Yogel											
89-73	Murray L. Yogel											
89-60	Fernando J. Monteiro		and the second second second		and parts				NG 25	- 54 - 1952	102 N.Y.	00000000
89-61		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	che & Anthony Wyche			1.00							
89-63		Paul A. Revalson	9 Worcester Stree	R	Great nephew	M	N	12	Massachusetts	Massachusetts	Massachusetts	English
89-64		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											
	Rose Cohen						1					
88-51		Mary O. DeGuglielmo	793 Cambridge St	0	Wife	F	W	44	Italy	Italy	Italy	Italian
		Mary O. DeGuglielmo			Wife	F	W		Italy	Italy	Italy	Italian
									1.			
88-27	John E. Aufiero & Gilda C. Aufiero											

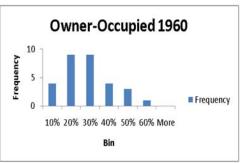
What Influences Urban Renewal?

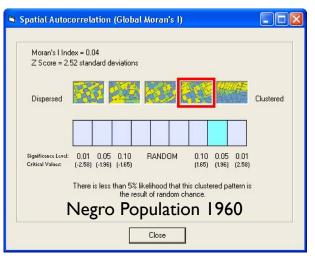




Possible Inputs to Urban Renewal

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

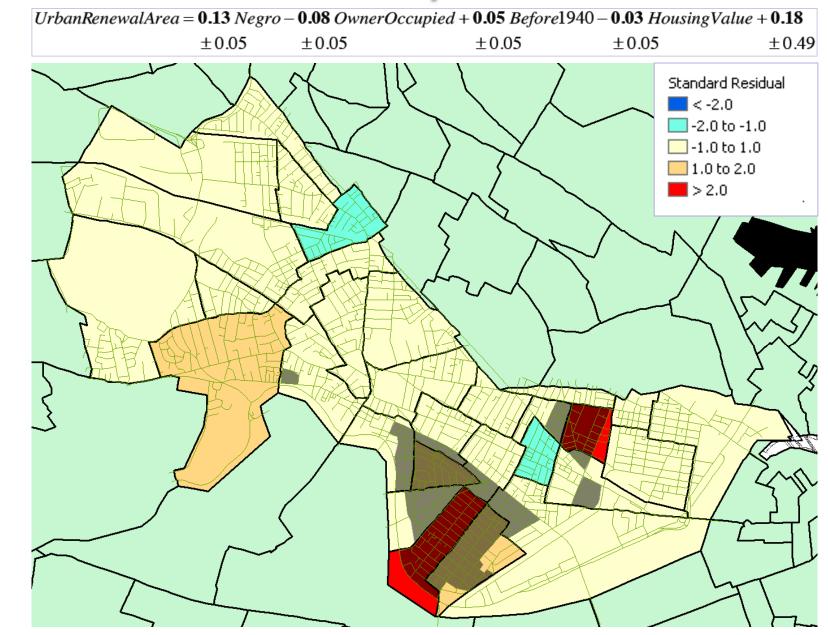




- Not cross-correlated: use Excel's CORREL
- Spatially auto-correlated: use ArcGIS' Moran's I

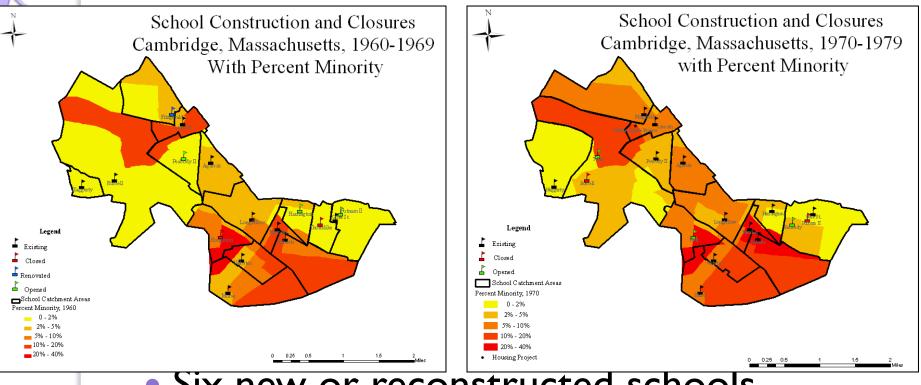


Geostatistical Analysis





What Influenced School Building? One of the eight student projects



Six new or reconstructed schools

AMHERST ANDICAL

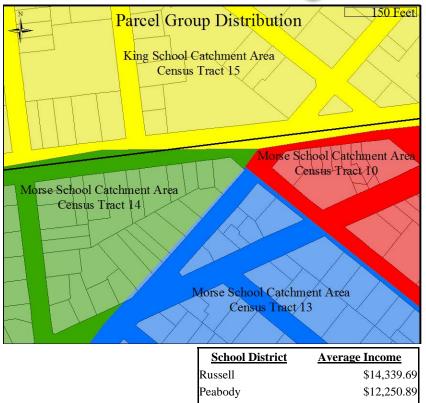
Worst school, Fletcher, untouched



What Influenced School Building?

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

<u>School District</u>	<u>Minority</u> <u>Reported</u>	<u>Minority from</u> <u>Census Analysis</u>	<u>Difference from</u> 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%



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





Thanks!

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

