

Exploring the relationship between housing prices and school quality

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Data Incubator interview project

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Introduction

What is the correlation between housing prices and school value?

1. How is school performance correlated with home values?
2. What is the degree of correlation?
3. Are home price indices a good indicator of an area's income demographics? Or is price per square foot, or property tax, or something else a more salient metric?
4. What is the role of charter schools? Do they play a positive or negative role? Do they play different roles in different income areas? What about private schools?
5. How is the API of a school affected by the race or ethnicity of its students? Is there a correlation between school APIs, home values, and the disparity between white/East Asian students and underrepresented minorities?



Data sources

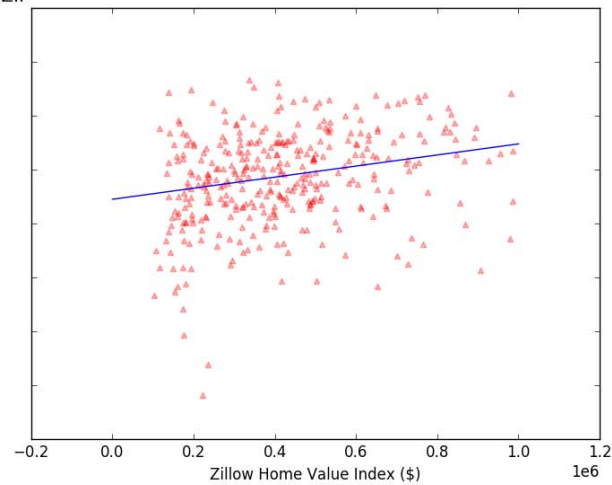
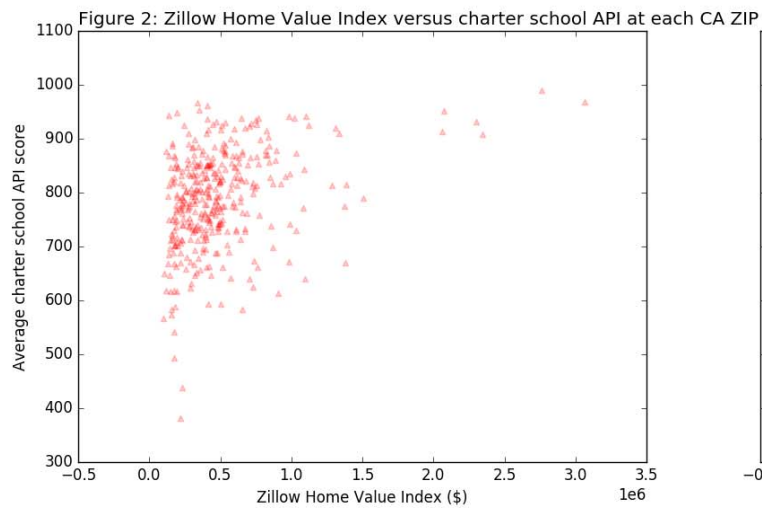
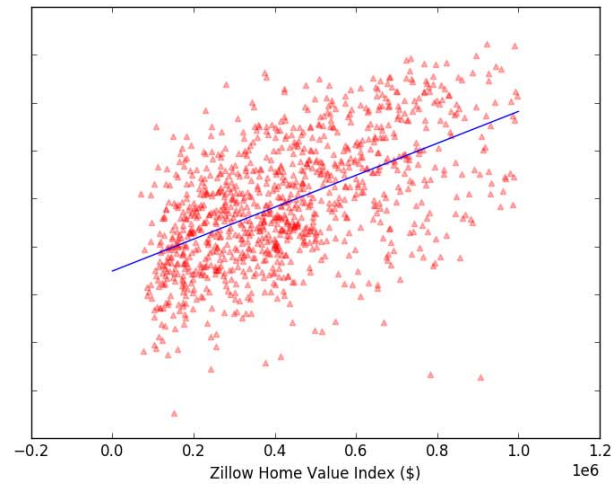
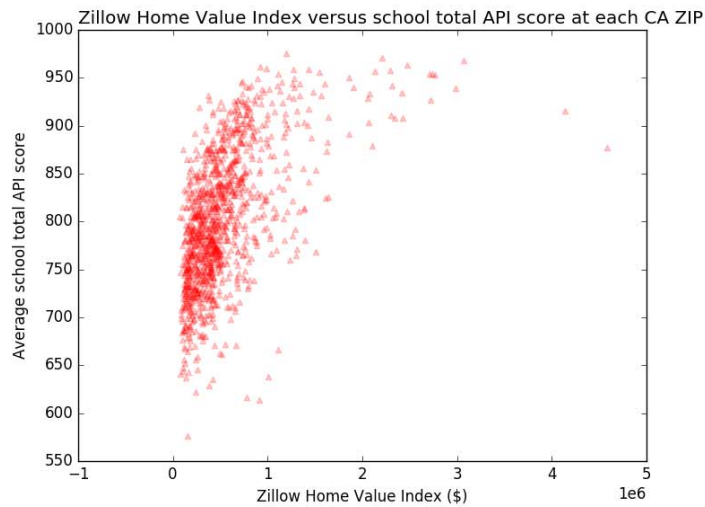


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IT'S IN OUR HANDS

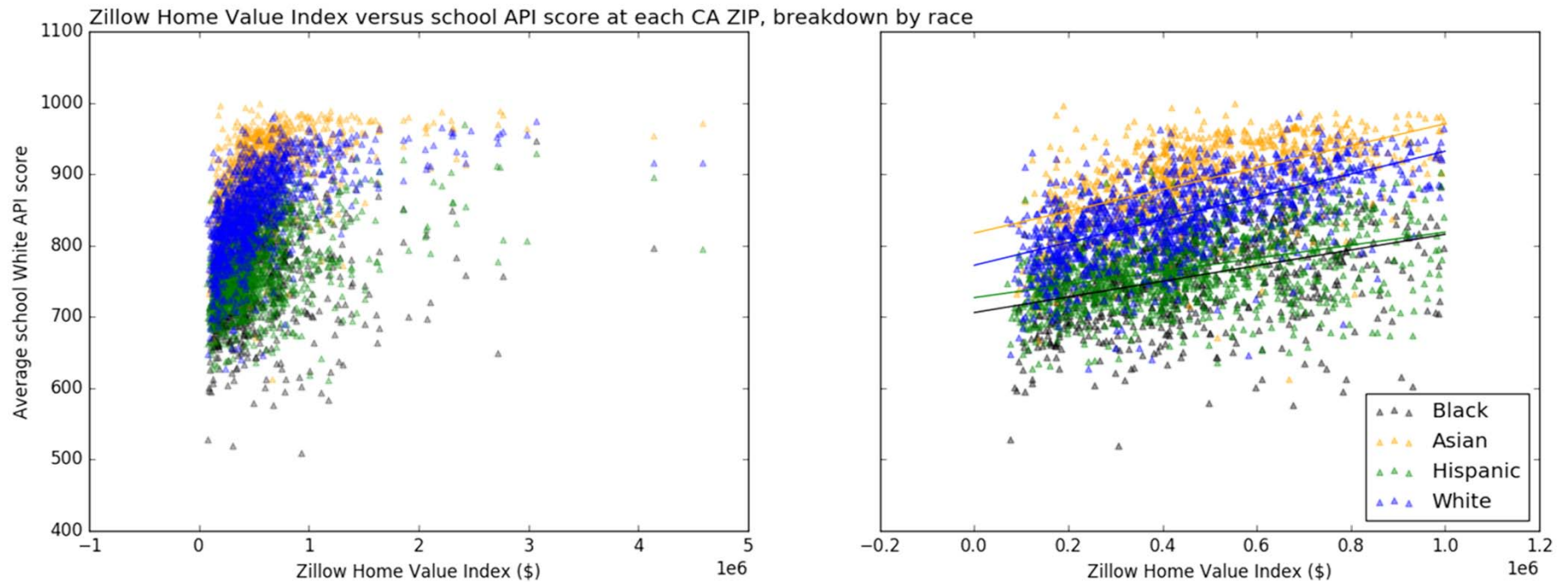
United States®
Census
2010

Initial results



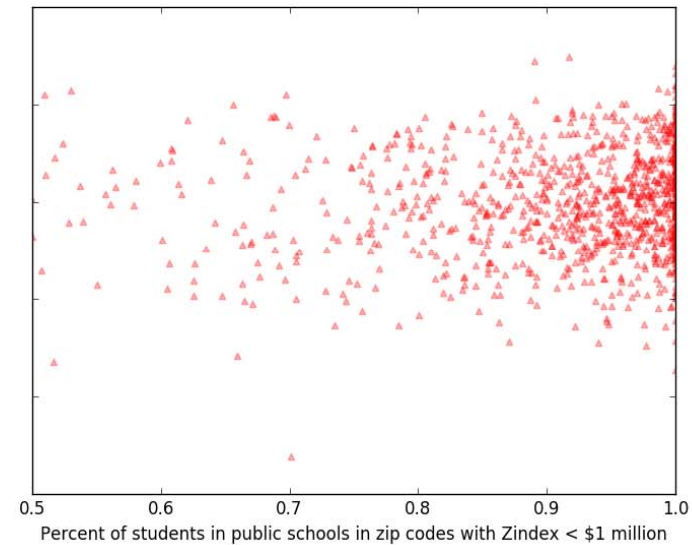
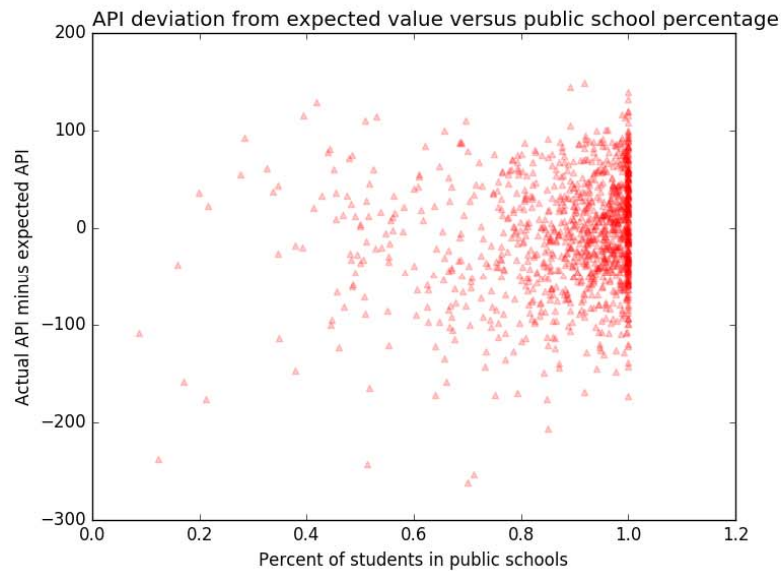
	All Schools	Charter only
Slope x 10 ⁴	1.66546	1.0269
Intercept	724.387	744.98
R ²	0.31281	0.0636
Pearson's	0.55254	0.3330
Spearman's	0.59739	0.3223

Racial breakdown



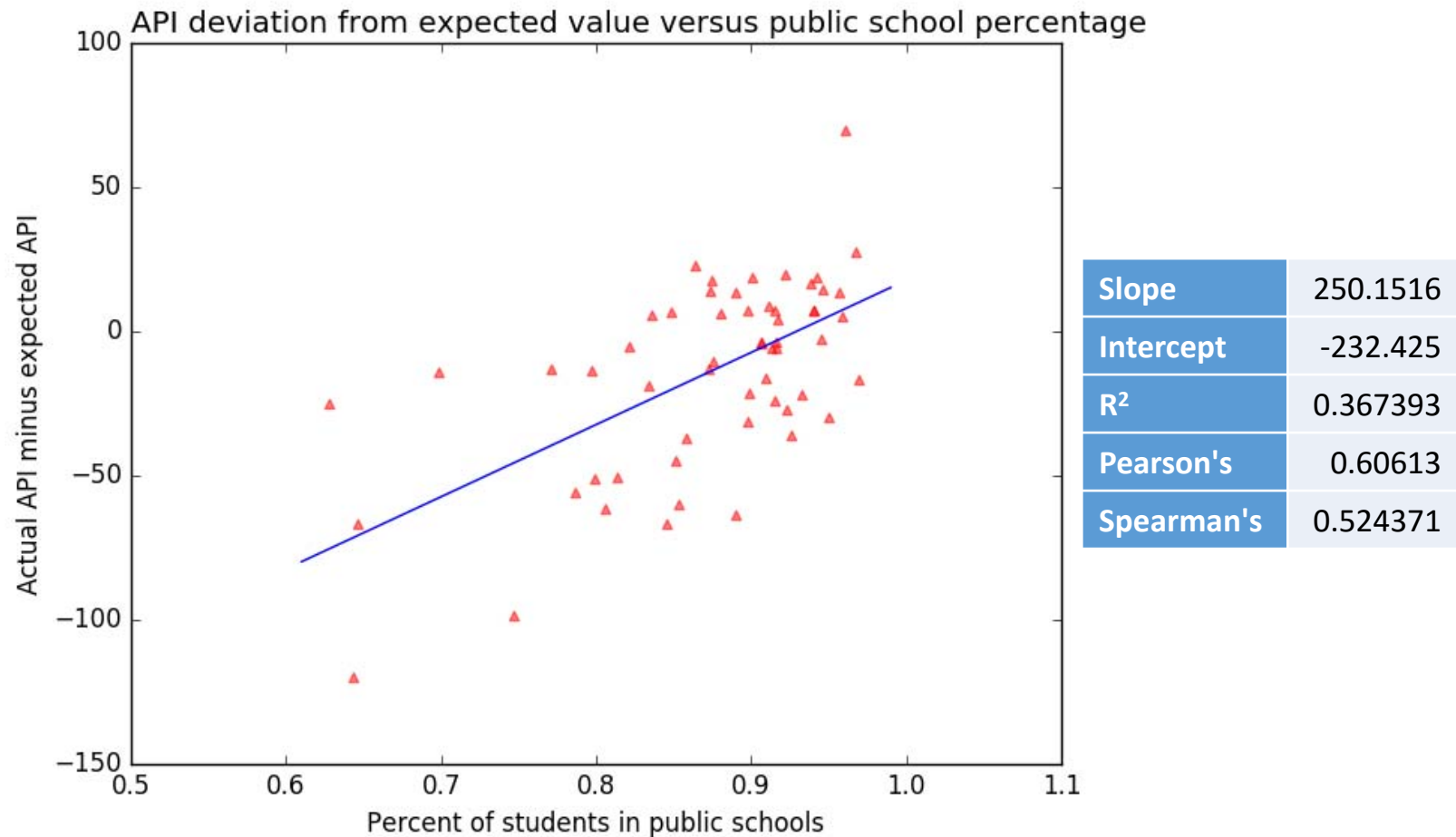
	Asian	Black	Hispanic	White
Slope x 10^4	1.531716	1.096435	0.918279	1.598099
Intercept	817.405	705.9881	726.9845	772.3306
R ²	0.293611	0.125855	0.149754	0.366764
Pearson's	0.458479	0.205933	0.409162	0.573052
Spearman's	0.607966	0.340154	0.429339	0.698472

Considerations for private school attendance



Slope	59.12554
Intercept	-58.8796
R ²	0.022746
Pearson's	0.150817
Spearman's	0.151745

Correlation appears when considering SCFs



Conclusions

- Home values are loosely correlated with public school performance
- Performance of charter schools correlates much less with home values
- Breakdown of data by racial groups does not show any particular minority group to have an especially large correlation
- Correlation between an area's private school enrollment and its public school's deviation from expected performance