

CRAIGSLIST HOUSING

North and South Bay Rentals



CRAIGSLIST HOUSING

- » Rental marketplace for variety of needs
- » Focus on **apts/housing** category
- » What should you price your housing unit?

housing

apts / housing

housing swap

housing wanted

office / commercial

parking / storage

real estate for sale

rooms / shared

rooms wanted

sublets / temporary

vacation rentals

THE DATA

★ **\$3546 / 1br - 1002ft² - LAST 1br 1.5 Bath Apartment on the Market! Dont Miss Out. Call Now!**


(sunnyvale) 

image 1 of 6

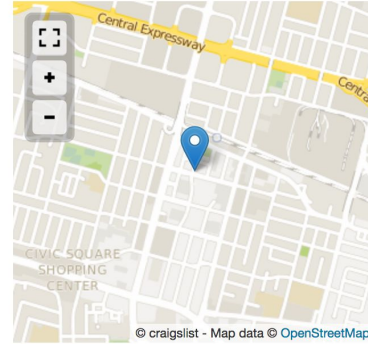


Solstice Apartment Homes

www.LiveSolstice.com

[show contact info](#)

299 W Washington Ave. Sunnyvale, CA 94086



© craigslist - Map data © OpenStreetMap

299 W Washington Ave.

[\(google map\)](#)

1BR / 1Ba **1002ft²** **available now**

cats are OK - purrr

dogs are OK - woof

apartment

w/d in unit

no smoking

attached garage

wheelchair accessible

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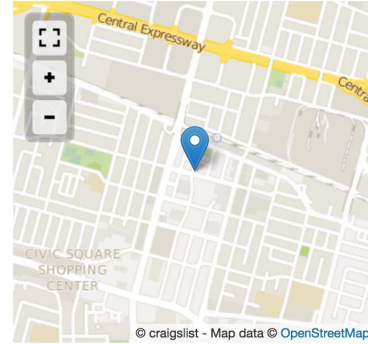


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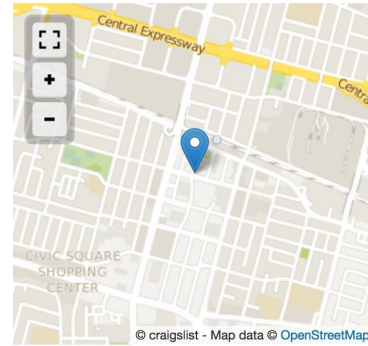


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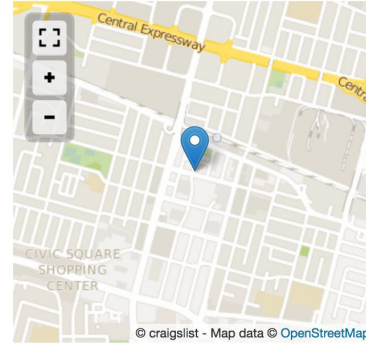
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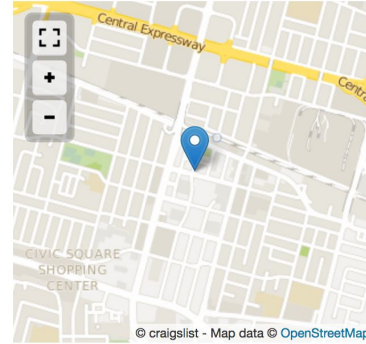
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THE FEATURES

- » **Bedrooms** (num)
- » **Bathrooms** (num)
- » **SqFt** (num)
- » **Type** (categorical)
 - » Apt., House, etc.
- » **Cats allowed** (bool)
- » **Dogs allowed** (bool)

- » **Furnished** (bool)
- » **No Smoking** (bool)
- » **Wheelchair Accessible** (bool)
- » **Images in Post** (num)
- » **Words in Post** (num)
- » **Region** (bool)
 - » 0 - South Bay
 - » 1 - North Bay

THE FEATURES

- » **Laundry** (categorical)
 - » No laundry (1)
 - » Laundry on-site (2)
 - » Laundry in building (4)
 - » w/d in unit (5)

- » **Parking** (categorical)
 - » No Parking (1)
 - » Street Parking (3)
 - » Carport (4)
 - » Attached Garage (6)

FEATURE SELECTION

Applied **Lasso** with $\alpha = 2$, determined by **GridSearchCV**

Bedrooms	No Smoking
Bathrooms	Wheelchair Accessible
Sqft	Images in Post
Type	Words in Post
Cats	Parking Availability
Dogs	Laundry Availability
Furnished	Region

FEATURE SELECTION

Applied **Lasso** with $\alpha = 2$, determined by **GridSearchCV**

Bedrooms

~~Bathrooms~~

Sqft

Type

~~Cats~~

Dogs

Furnished

~~No Smoking~~

~~Wheelchair Accessible~~

~~Images in Post~~

Words in Post

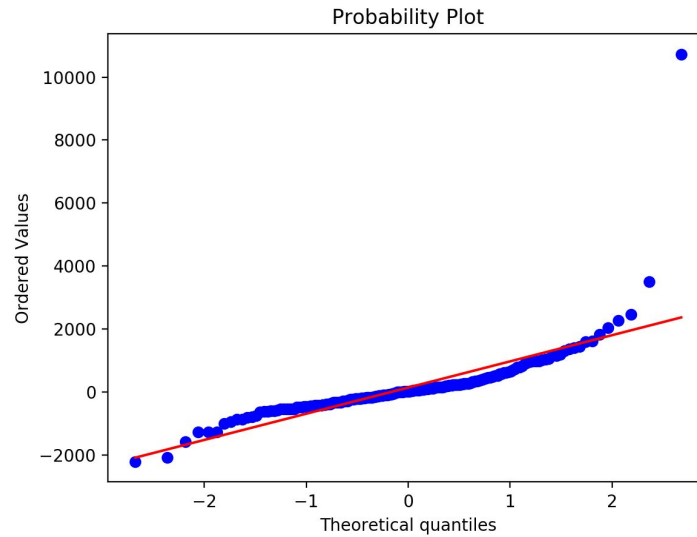
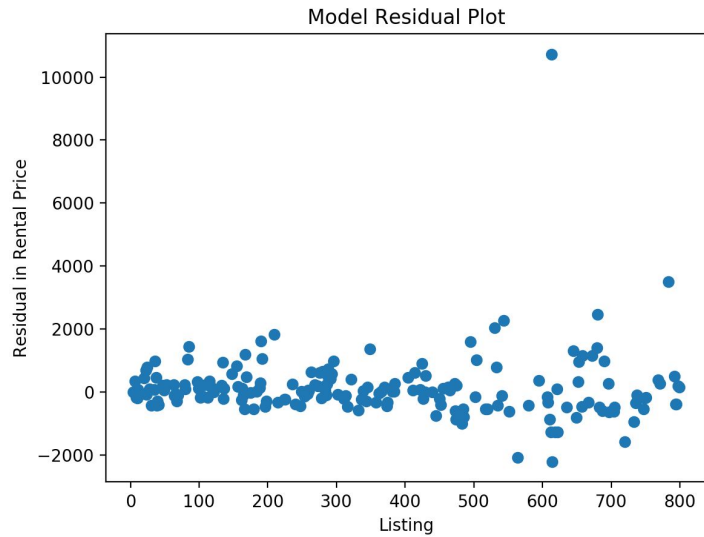
~~Parking Availability~~

Laundry Availability

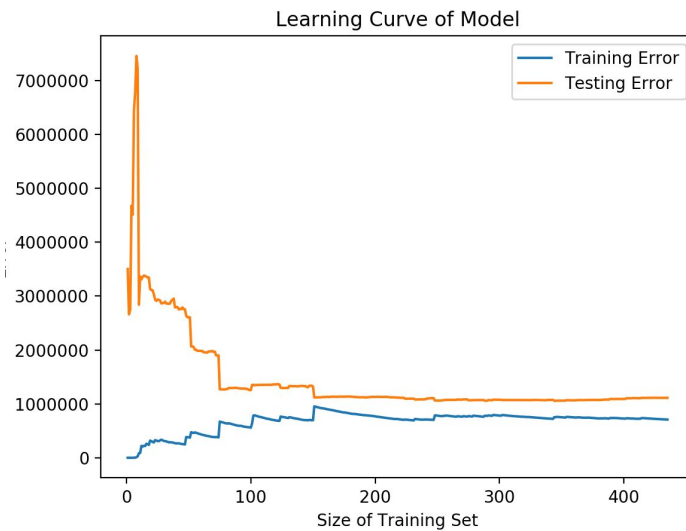
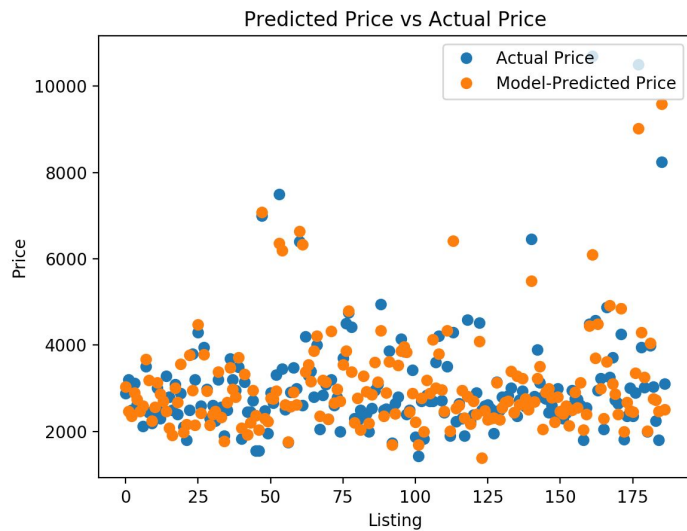
Region

RESULTS

RESULTS



RESULTS



OUTLIERS

☆ **\$19500 / 4br - 4323ft² - 4 Bedrooms Plus Bonus Room, 3 Full & 2.5 Bath Southern Mansion in Napa**
(napa county) 

☆ **\$14000 / 5br - 4000ft² - AMAZING VIEWS! Sophisticated and Private Mill Valley Hilltop Oasis!**
(mill valley) 

OUTLIERS

☆ **\$19500 / 4br - 4323ft² - 4 Bedrooms Plus Bonus Room, 3 Full & 2.5 Bath Southern Mansion in Napa**
(napa county) 🗑️

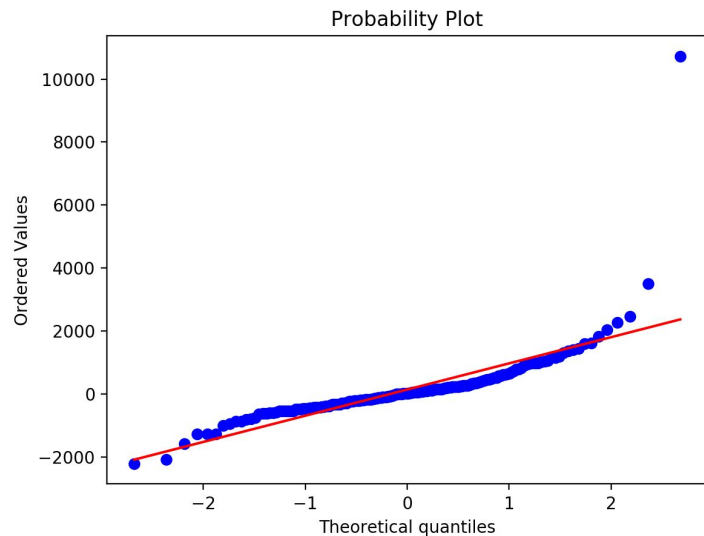
☆ **\$14000 / 5br - 4000ft² - AMAZING VIEWS! Sophisticated and Private Mill Valley Hilltop Oasis!**
(mill valley) 🗑️

title	hood	price	bed	bath	sqft	type
LEX Has Everything You Need, Join Us Today--Open House This Weekend!	(san jose south)	29903165	2	2		apartment

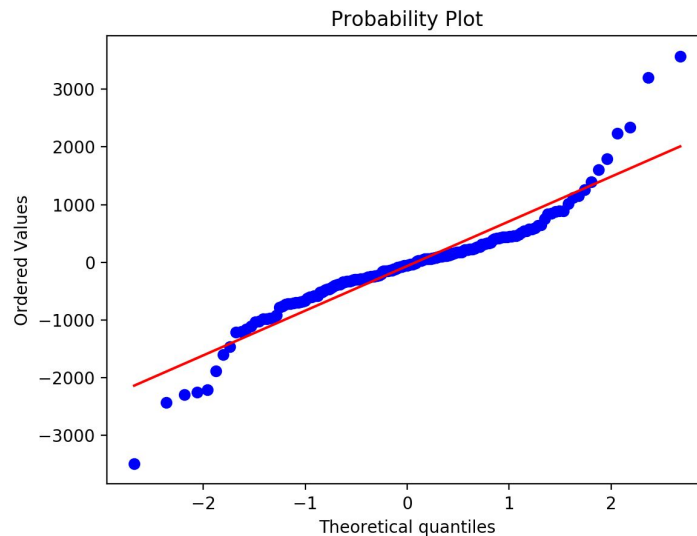
Average Price with LEX: 40061

Average Price without LEX: 2918

“PLAY IT AGAIN, SAM”



Before

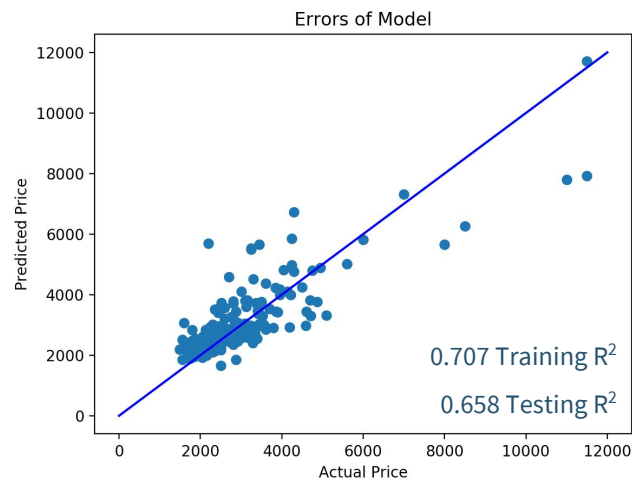


After

“PLAY IT AGAIN, SAM”



Before



After

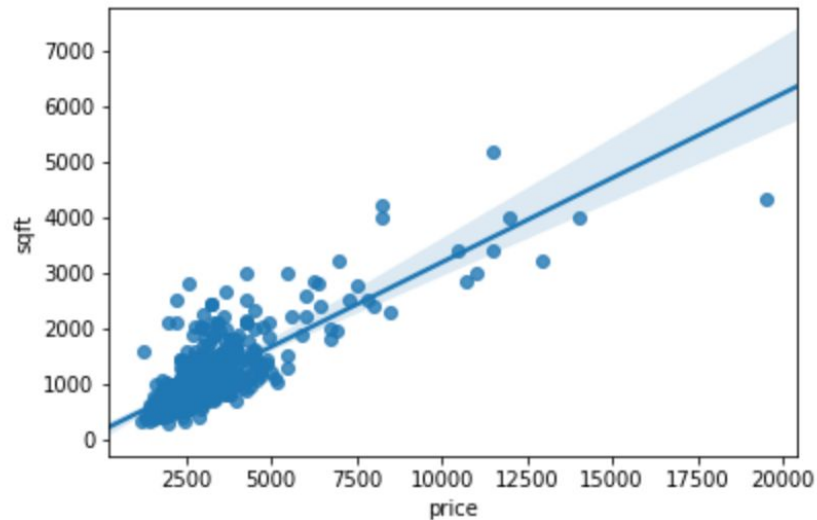
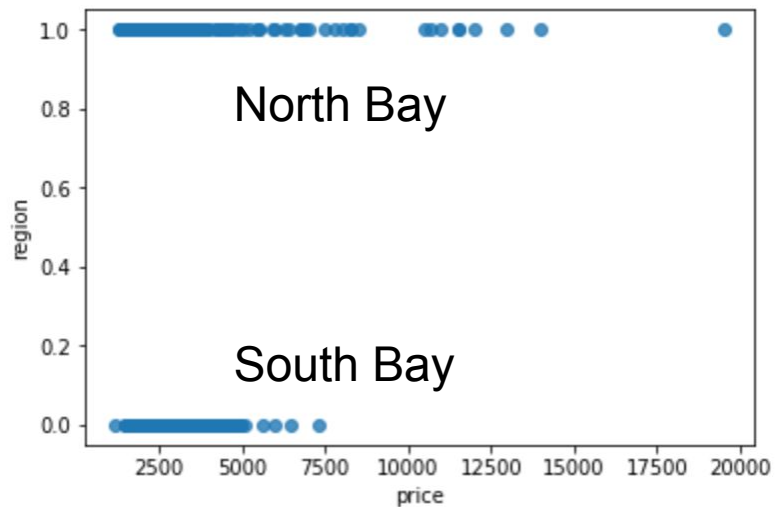
FUTURE EXTENSIONS

- » Greater geographic granularity; neighborhoods
 - » Additional geographic locations
- » Were units actually rented?

APPENDIX

Supporting Slides

LASSO-SELECTED FEATURES



REGRESSION COEFFICIENTS

(-253.984, 'bed')

(2.455, 'sqft')

(177.945, 'dogs')

(974.015, 'furnished')

(0.243 'words')

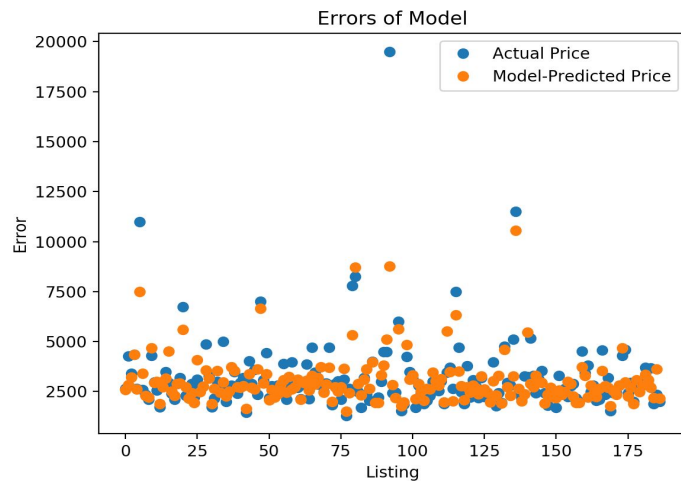
(20.596, 'laundry')

(-252.628, 'region')

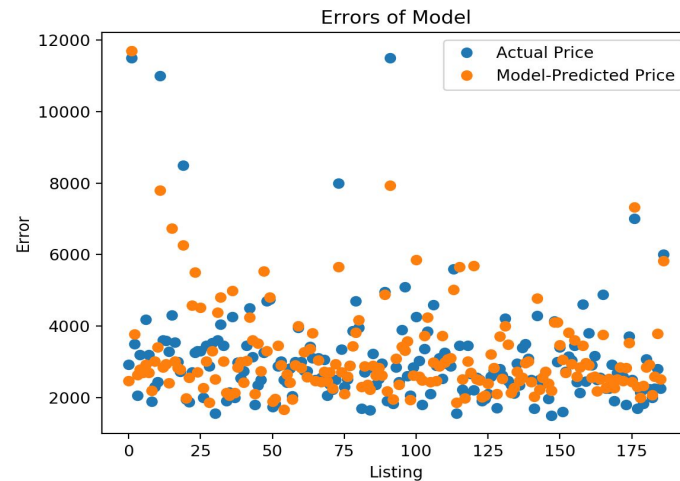
(-172.700, 'type.house')

(-124.118, 'type.townhouse')

PREDICTED VS ACTUAL



Before



After