

California Property Insights



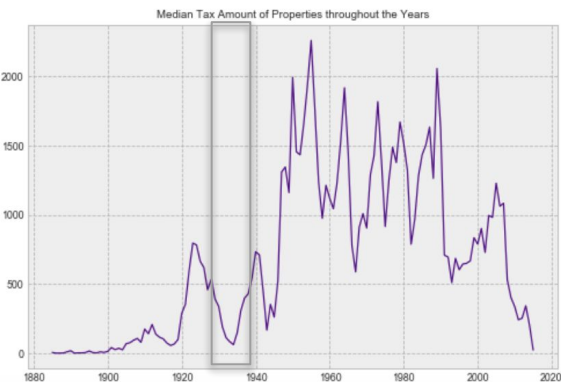
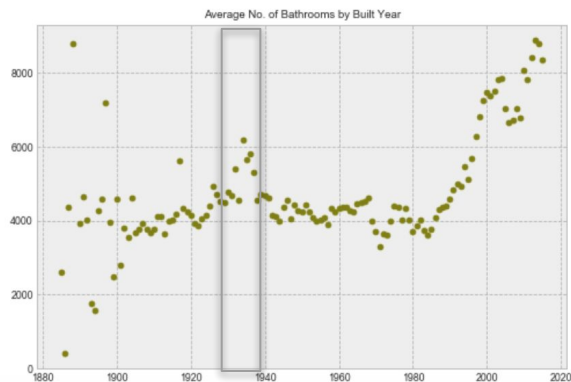
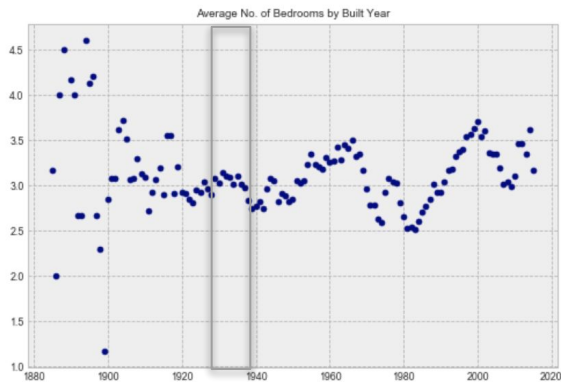
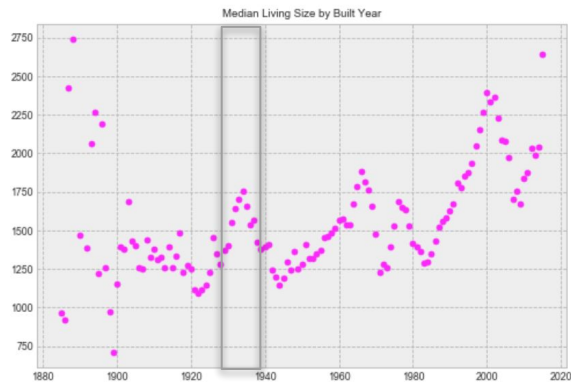
Sara and Mina

Introduction

**Our client is looking
for a historic property
in California.**

**Using data from
2016 and 2017, we
are predicting how
historic properties
behave in the
market.**

Isolating the Optimal Time Period



Properties built in
the 1930s show
promise in
delivering:

Historic Value

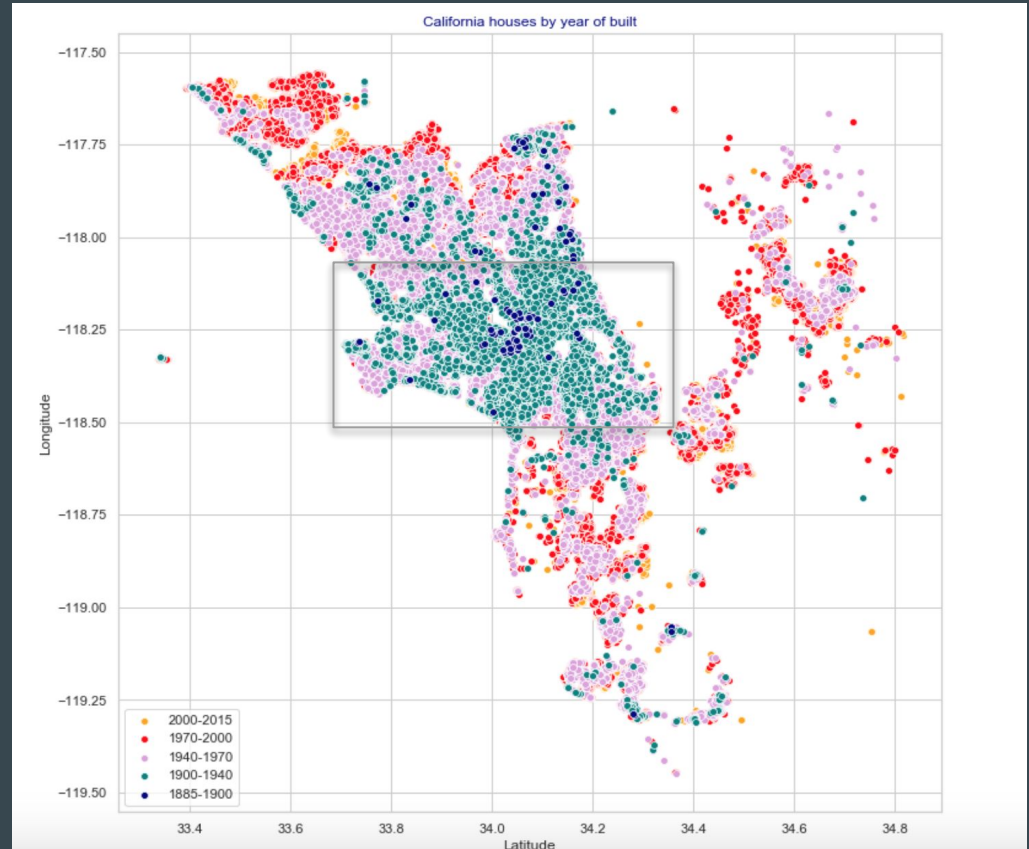
Large Living Space

Low Tax

Where to find historic houses?

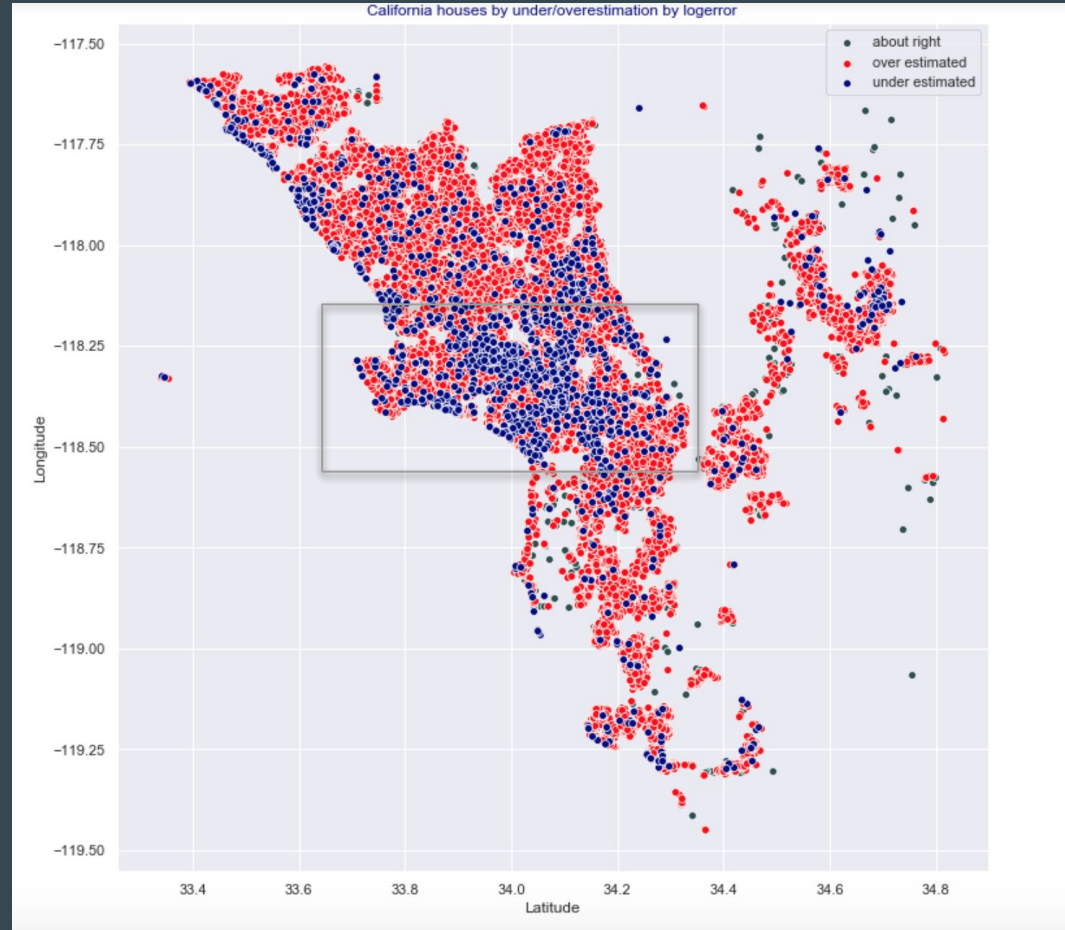
The green dots depict
property built between
1900 - 1940.

Heavily concentrated in
central California.



The blue dots show
properties that were
sold for more than they
were listed.

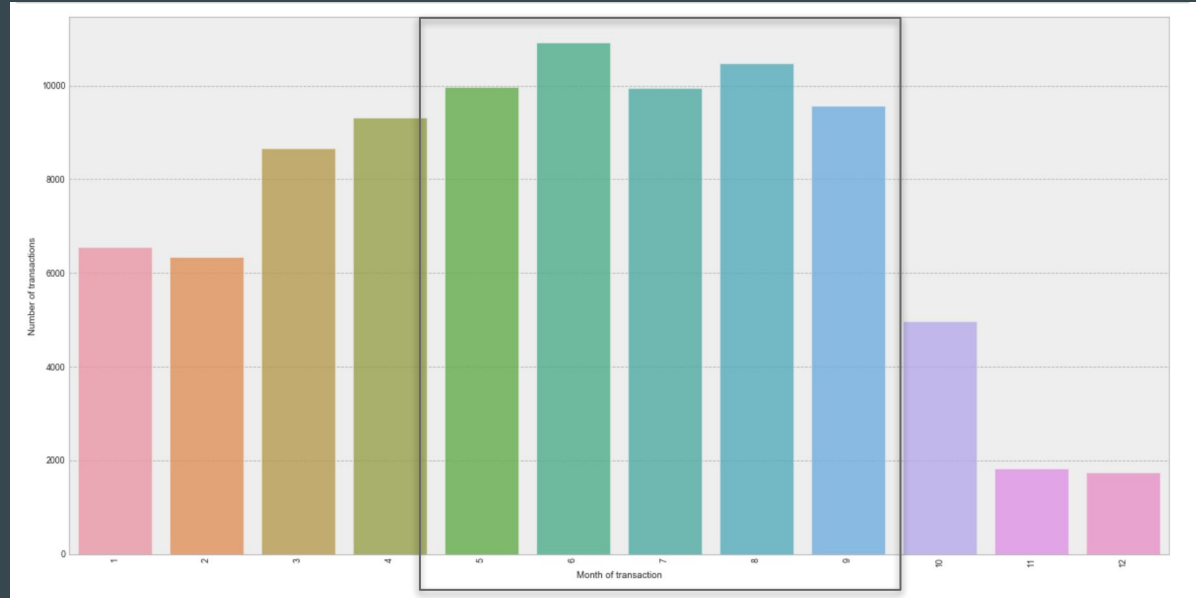
Fast bidding movements
on desirable historic
properties would be
advised.



When is the best time to buy?

The months of May -
September.

Causality is unclear
however client will have
largest variety of
properties to consider if
purchasing that time
period.



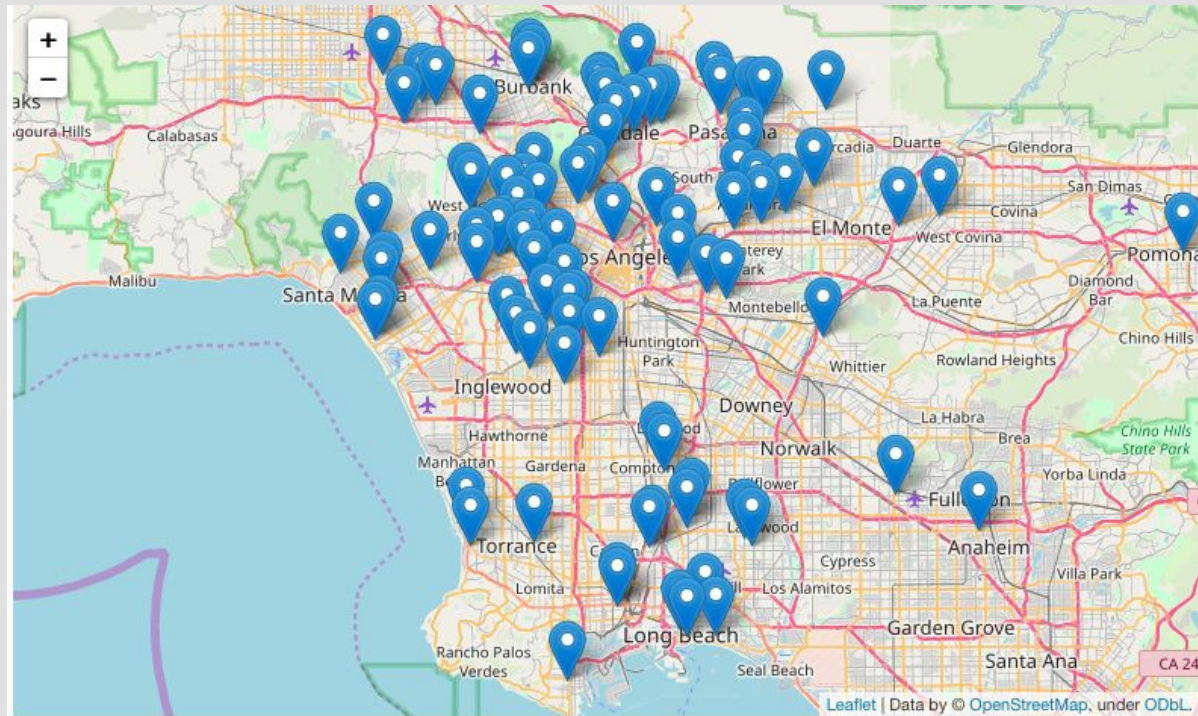
**Examples of properties
that fit into the client
niche.**

Sample of 100 properties
(out of 5526) which are:

Built between
1930-1940.

Have four or more
bedrooms.

Sold for less than the
asking value.







In Conclusion

- We can predict that it is very likely that our client can find the exact property he desires.
- He is also able to find the property and purchase it for less than it is listed.

Further Work:

Would include analysis of the oldest properties (pre 1900s) as a subset to identify any trends in their behaviour in the market.

Thank you for watching

Q & A

Dep. Variable:	logerror	R-squared:	0.006
Model:	OLS	Adj. R-squared:	0.006
Method:	Least Squares	F-statistic:	95.06
Date:	Wed, 04 Dec 2019	Prob (F-statistic):	3.56e-100
Time:	11:05:59	Log-Likelihood:	68308.
No. Observations:	75761	AIC:	-1.366e+05
Df Residuals:	75755	BIC:	-1.365e+05
Df Model:	5		
Covariance Type:	nonrobust		

	coef	std err	t	P> t 	[0.025	0.975]
Intercept	-0.0351	0.033	-1.065	0.287	-0.100	0.029
finishedsquarefeet12	1.067e-05	6.43e-07	16.602	0.000	9.41e-06	1.19e-05
yearbuilt	1.811e-05	1.68e-05	1.075	0.282	-1.49e-05	5.11e-05
taxamount	-1.056e-06	6.49e-08	-16.279	0.000	-1.18e-06	-9.29e-07
lotsizesquarefeet	4.751e-09	2.94e-09	1.616	0.106	-1.01e-09	1.05e-08
bedroomcnt	-0.0008	0.000	-1.619	0.105	-0.002	0.000

Omnibus:	19144.464	Durbin-Watson:	1.986
Prob(Omnibus):	0.000	Jarque-Bera (JB):	159142.040
Skew:	0.985	Prob(JB):	0.00
Kurtosis:	9.822	Cond. No.	1.17e+07

```
In [43]: # plot logerror
plt.figure(figsize=(8,6))
plt.scatter(range(df_train.shape[0]), np.sort(df_train.logerror.values))
plt.xlabel('index')
plt.ylabel('logerror')
plt.show()
```

