

REAL ESTATE MARKETING PLAN

Recommendation for San Diego RE
Market Investors



Business Opportunity



Due to work from home trend, people are moving from Bay area to South California

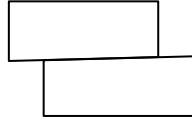


Investors invest in Real Estate Market due to inflation risk



San Diego house price increases 25% in a year and become one of hottest nationwide real estate market.





What area and what type of residential properties to invest? Which has good cash flow or value growth potentials?



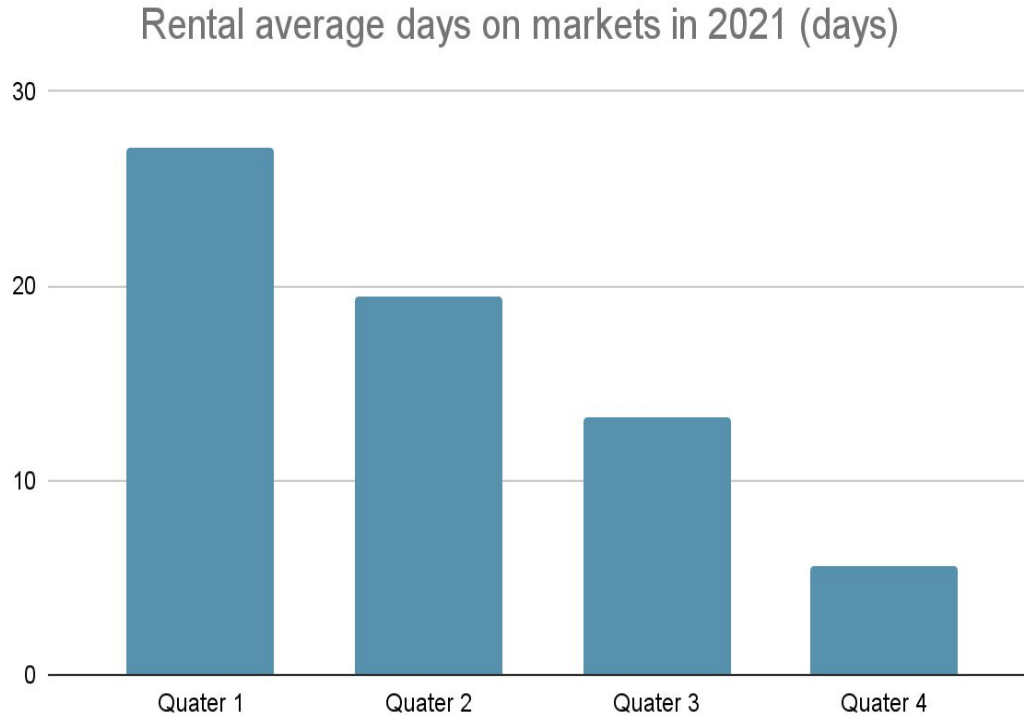
PROBLEM

Find properties with good rent to value ratios and those with good value growth.

SOLUTION

Market summary - RENTAL DAYS ON MARKETS (DOMLS)

Rental average days on markets in 2021 (days)



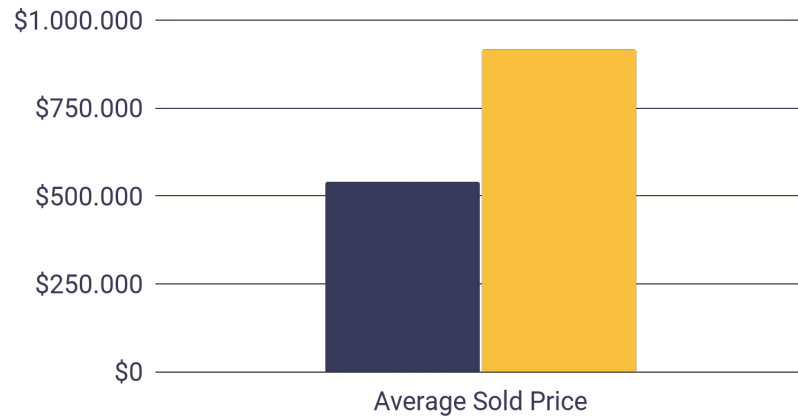
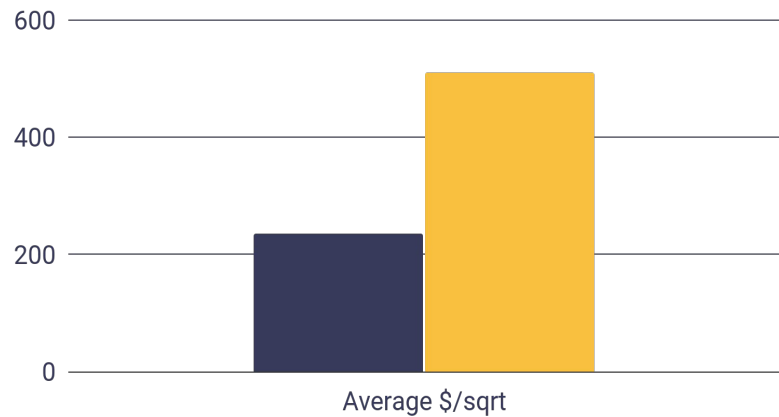
Q1	Q2	Q3	Q4
27.07 Days	19.41 Days	13.27 Days	5.57 Days

Inventory Shortage

Tens of offers for one property are common

Market summary - VALUE GROWTH

2012 2021



Methodology

Collect Data

Purchasing and rental transaction records can be found in the San Diego Multiple Listing System (MLS).

EDA

Calculate rent_to_value ratios and value growth percentage for different house (based on combination of several features)

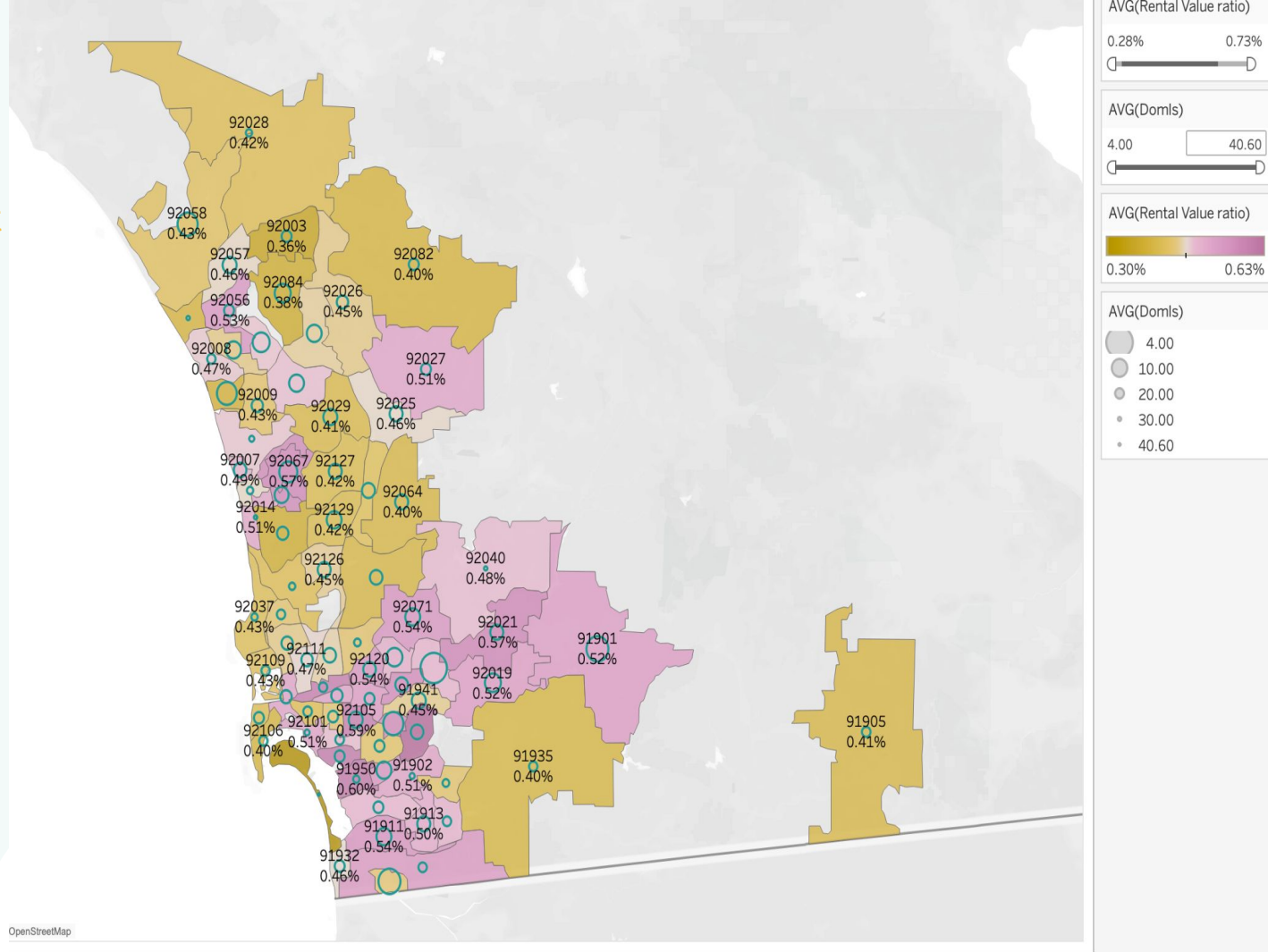
**Future work:
Collect complete
rental data**

**Future work:
Advanced algorithm**



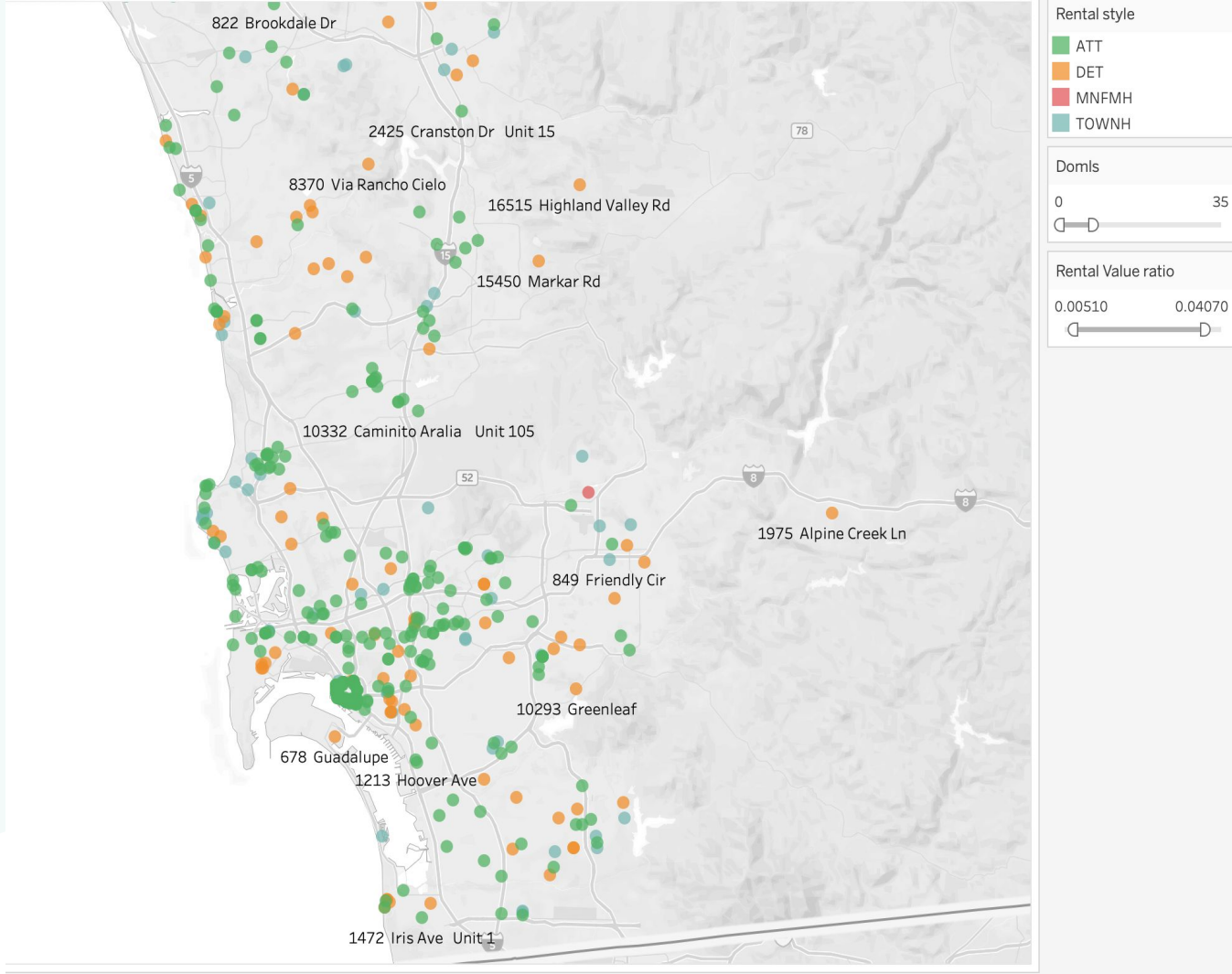
EDA Insight-

Rent_to_value ratio
and Days on market
by zip code
([link](#))



EDA Insight-

Recommend by
individual house
([link](#))



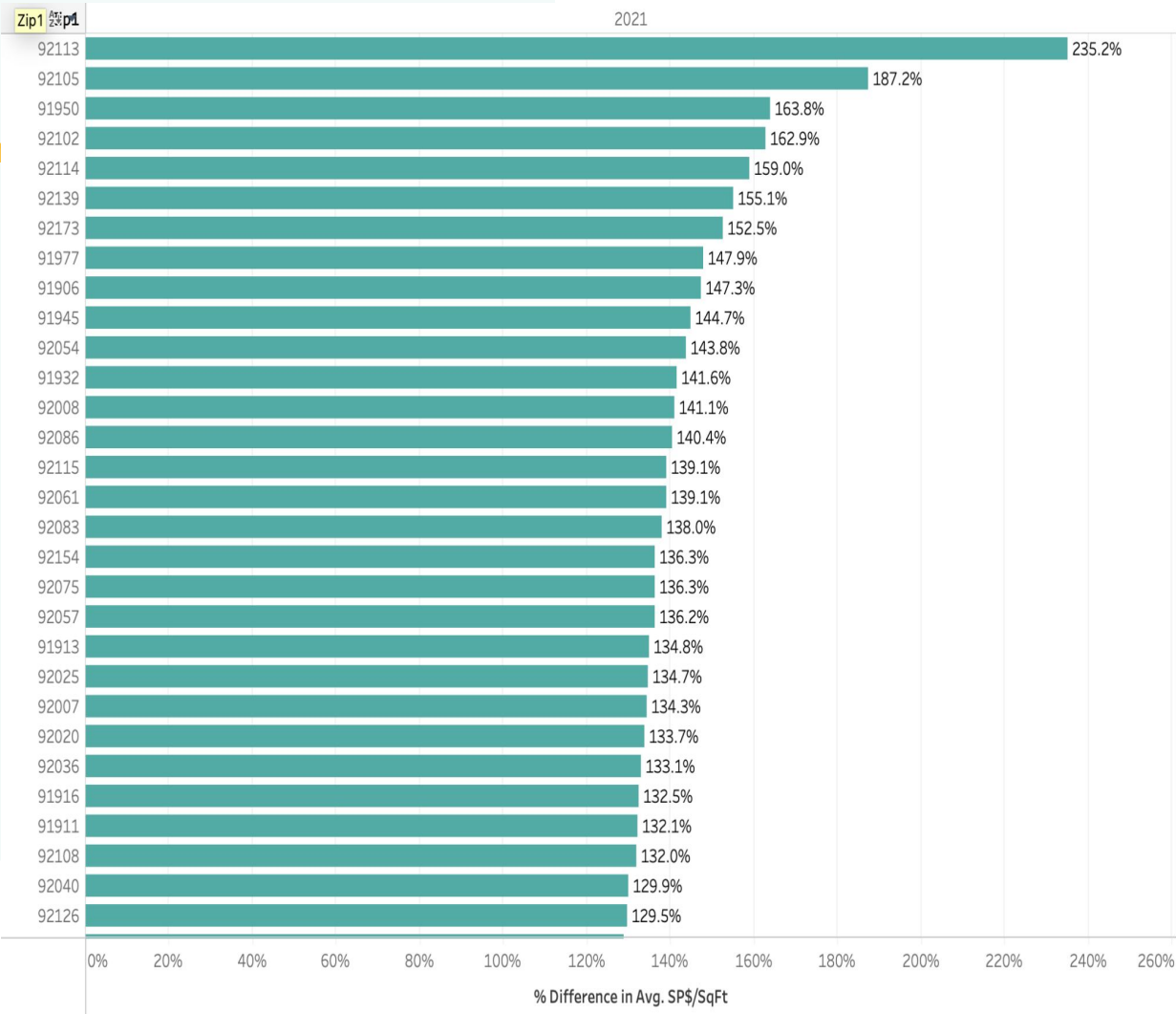
EDA Insight - Recommend by Weighted Index for rentals (top 10)

Zip	Rental_style	sqrt_range	AVERAGE of Rented Price	AVERAGE of Rental_Value_ratio	AVERAGE of DOMLS	Weighted recommend index
91977	ATT	500 - 999	\$1,889	0.79%	15.8	5.68
92108	ATT	500 - 999	\$2,740	0.73%	18	4.64
92014	ATT	500 - 999	\$3,994	0.69%	22.67	3.66
92109	ATT	0 - 499	\$1,710	0.61%	16	2.71
92115	ATT	500 - 999	\$1,845	0.60%	9.29	2.66
92120	ATT	500 - 999	\$1,878	0.59%	10.8	2.44
92107	ATT	0 - 499	\$1,575	0.59%	18.2	2.21
92024	ATT	500 - 999	\$3,029	0.58%	21.2	1.96
92105	ATT	500 - 999	\$1,556	0.56%	16.22	1.85
91932	DET	1500 - 1999	\$4,282	0.56%	15.17	1.75

Weighted index

Standardize Rental_to_Value_ratio and DOMLS (days on market), calculate weighted index (3:-1) and each combination should have at least 5 rental data to decrease the impact of individual nosies.

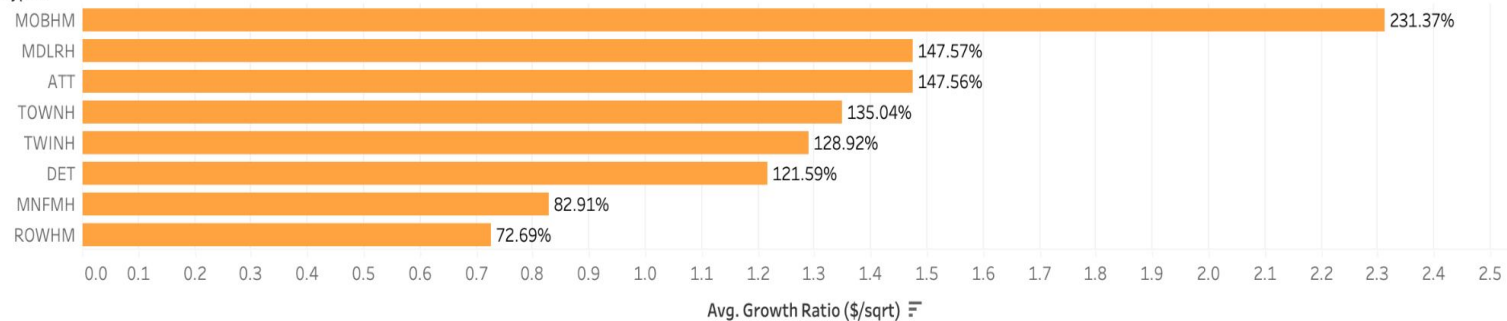
EDA Insight-
Value growth by zip code from
2012 - 2021
([link](#))



EDA Insight- Value growth by house type and size from 2012 - 2021

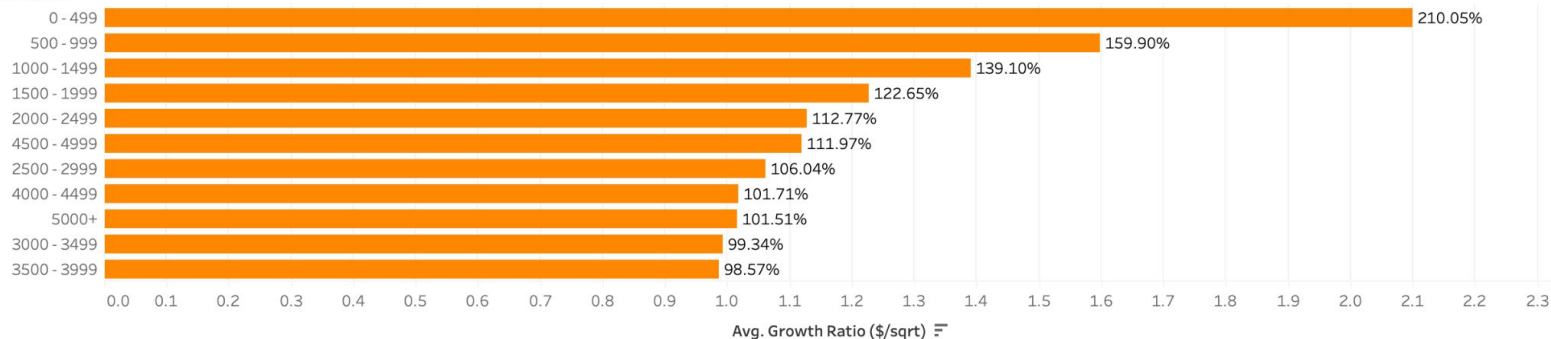
Growth_by_type

Type ▾



Growth_by_size

SF Ran... ▾

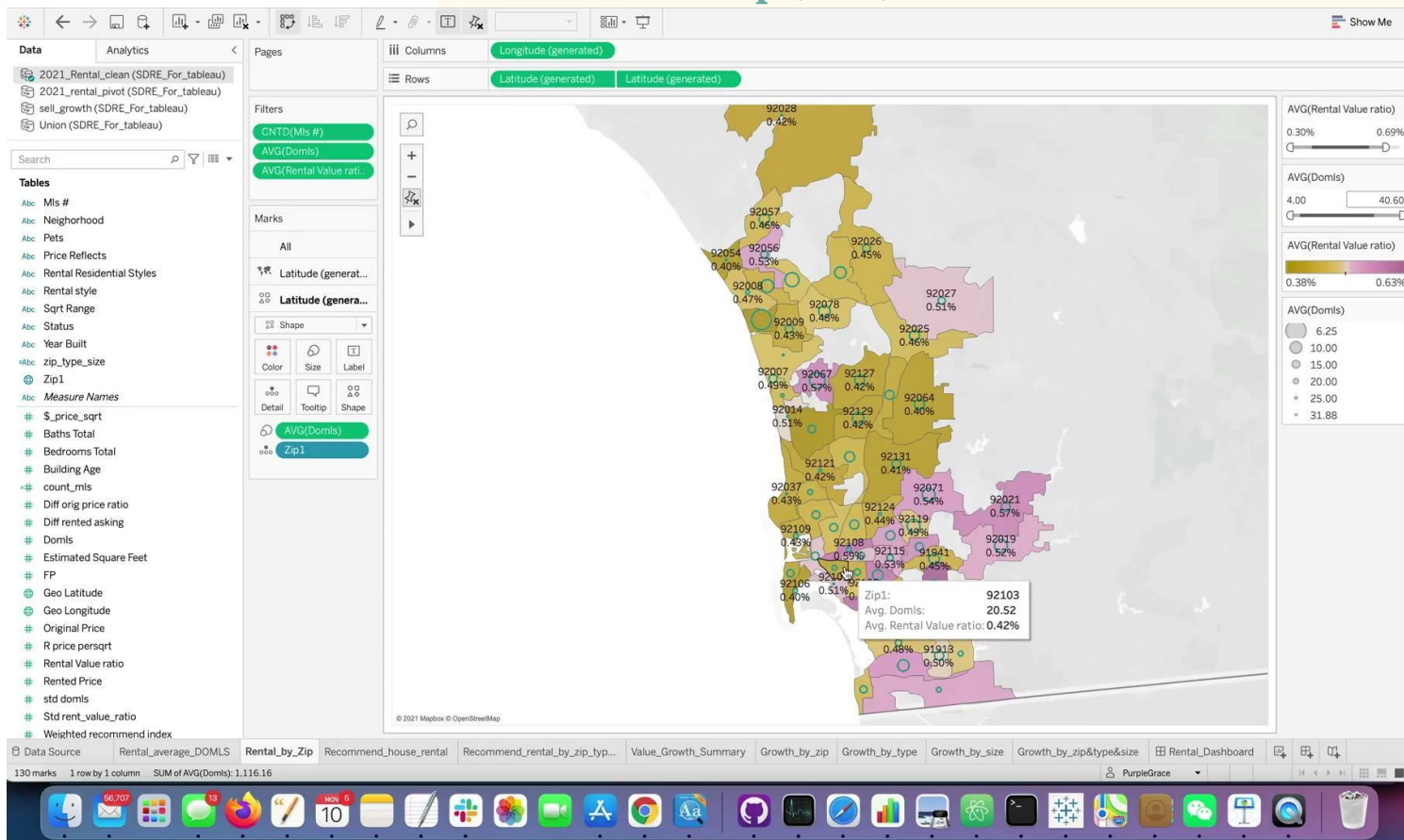


EDA Insight - Value growth by zip code & type & SF_range (top 10)

Zip code	Type	SF_Range	Average_soldp rice_2021	Average_soldp rice_2012	Growth Ratio (sold price)	Average_\$/sqrt _2021	Average_\$/sqrt _2012	Growth Ratio (\$/sqrt)
92007	ATT	1000 - 1499	\$1,302,500	\$364,019	257.81%	\$1,104.19	\$288	283.08%
92102	ATT	0 - 499	\$243,716	\$87,500	178.53%	\$683.62	\$181	278.14%
92040	ATT	500 - 999	\$315,901	\$85,750	268.40%	\$384.34	\$106	262.44%
92113	DET	500 - 999	\$504,944	\$149,145	238.56%	\$658.67	\$184	257.38%
91902	ATT	500 - 999	\$318,500	\$87,867	262.48%	\$498.96	\$141	253.28%
92105	ATT	1000 - 1499	\$478,125	\$130,080	267.56%	\$386.09	\$110	250.91%
92105	ATT	500 - 999	\$296,075	\$86,658	241.66%	\$405.83	\$117	246.44%
91977	TOWNH	1000 - 1499	\$448,833	\$132,795	237.99%	\$392.34	\$113	246.35%
92025	ATT	1500 - 1999	\$636,833	\$181,750	250.39%	\$381.99	\$111	242.70%
92083	ATT	500 - 999	\$343,658	\$102,625	234.87%	\$417.53	\$123	239.24%

Each combination should have at least 10 selling data to decrease the impact of individual nosies.

Tableau video clip ([link](#))





Future work

- Linear regression model to predict house value, so that investors can find properties with better rent_to_value ratio.
- Time series model to forecast future house value, so that investors to find properties with good value growth potentials.
- Clustering Algorithms to help find good substitutes when desired property type is not available on the market.



Thanks

& Questions

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