

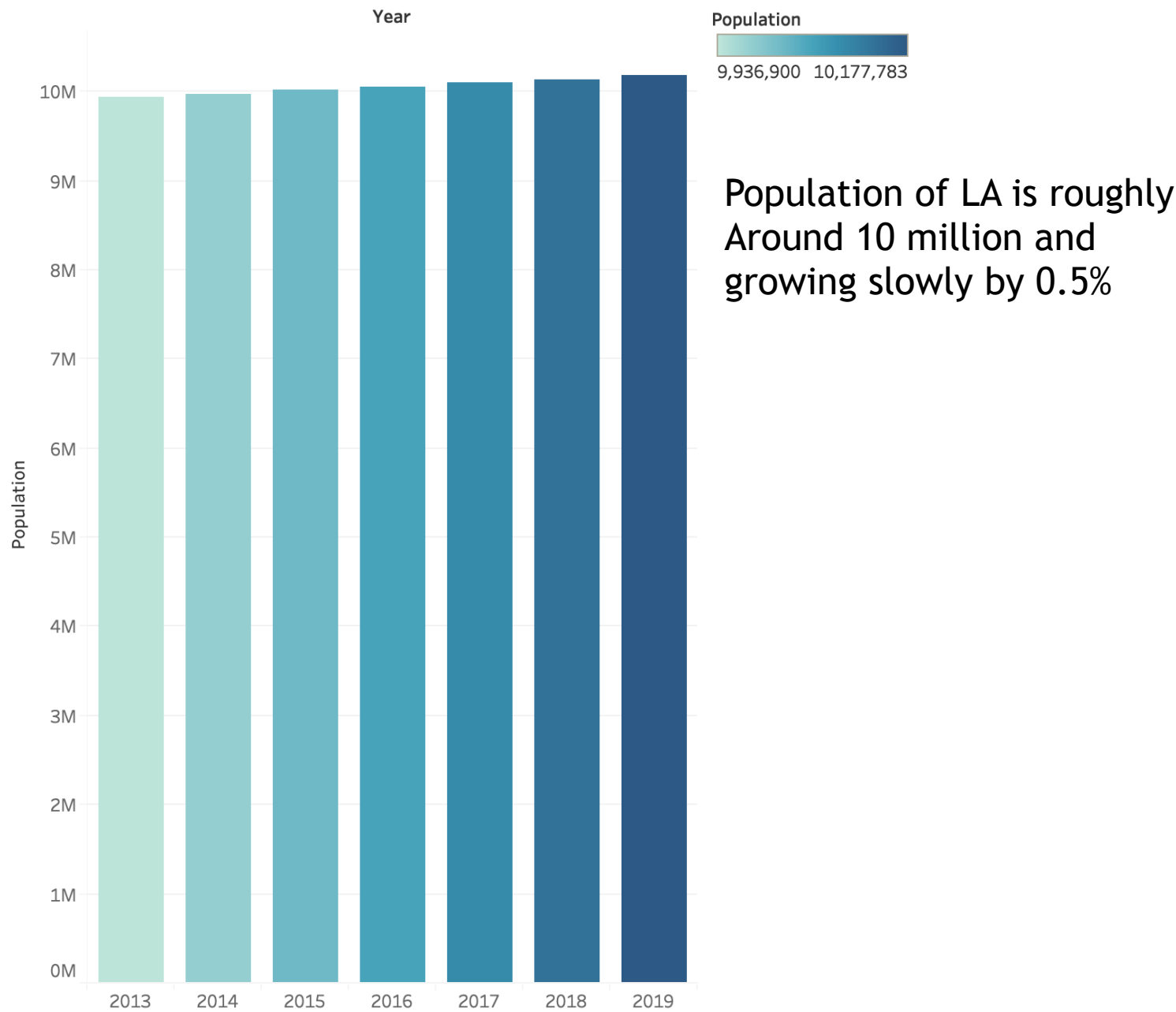
Los Angeles county - Economic statistics & future

Presented by
Shanmugavel Chandrakasu
UCLA - Data Science

Objective

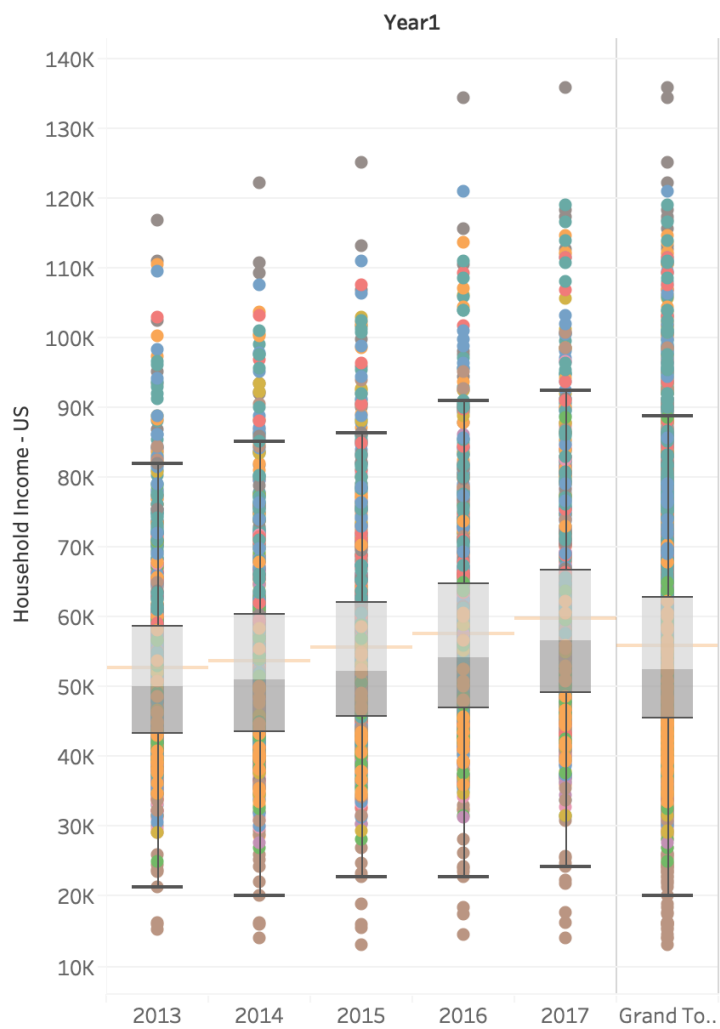
- Cross sectional analysis of LA county social & economic status of the neighborhood.
- Predict the growth of real estate - new building permits
- Data source: Publicly available - LA county data
- Population
- Income
- Education
- Employment
- Crime
- Real Estate growth

Population Change



Sum of Population for each Year Year. Color shows sum of Population. The view is filtered on Year Year, which has multiple members selected.

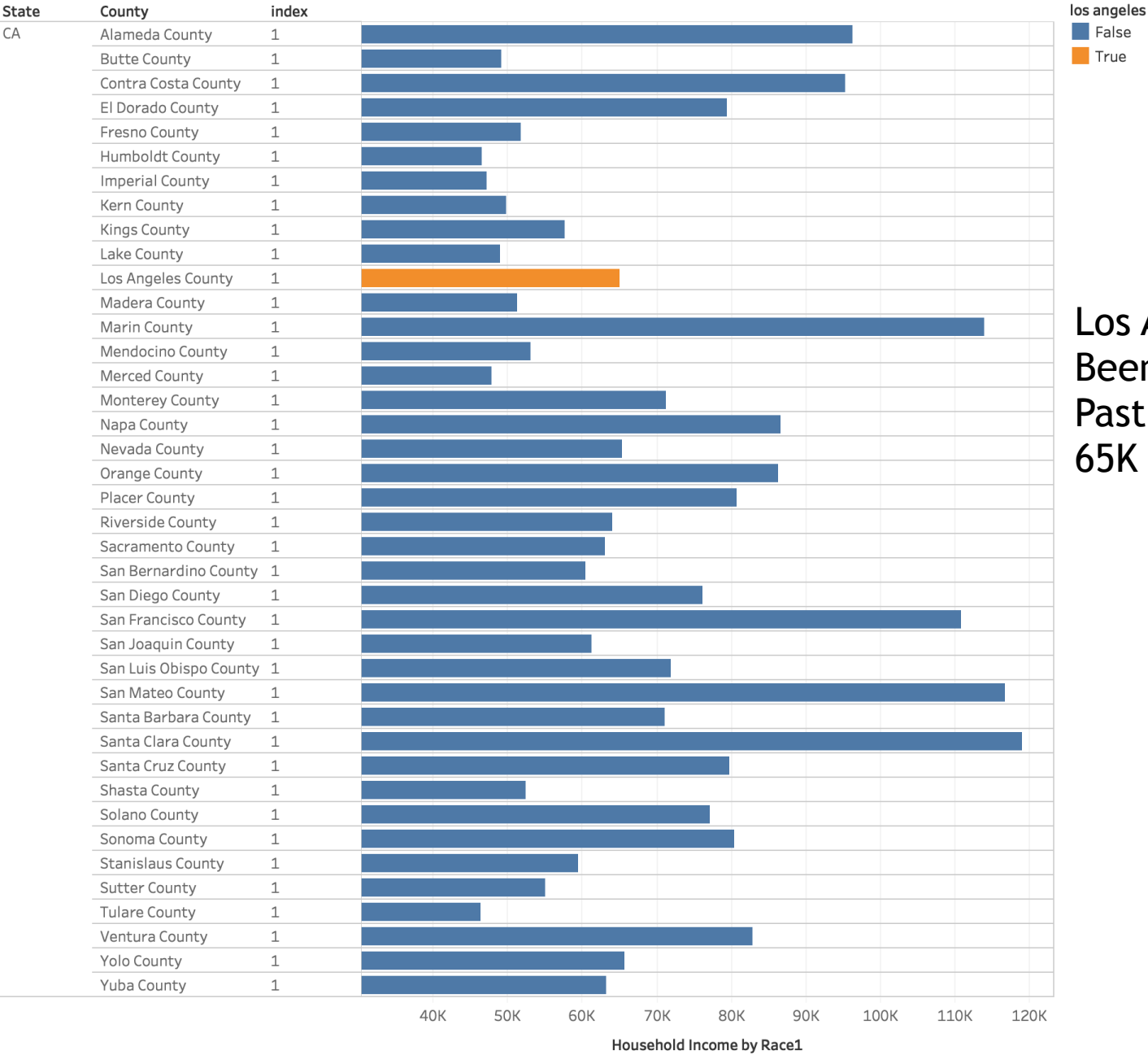
US - Household Income - Box Plot



US Median Household income is Increasing by at least 2K at max by 3K every year.

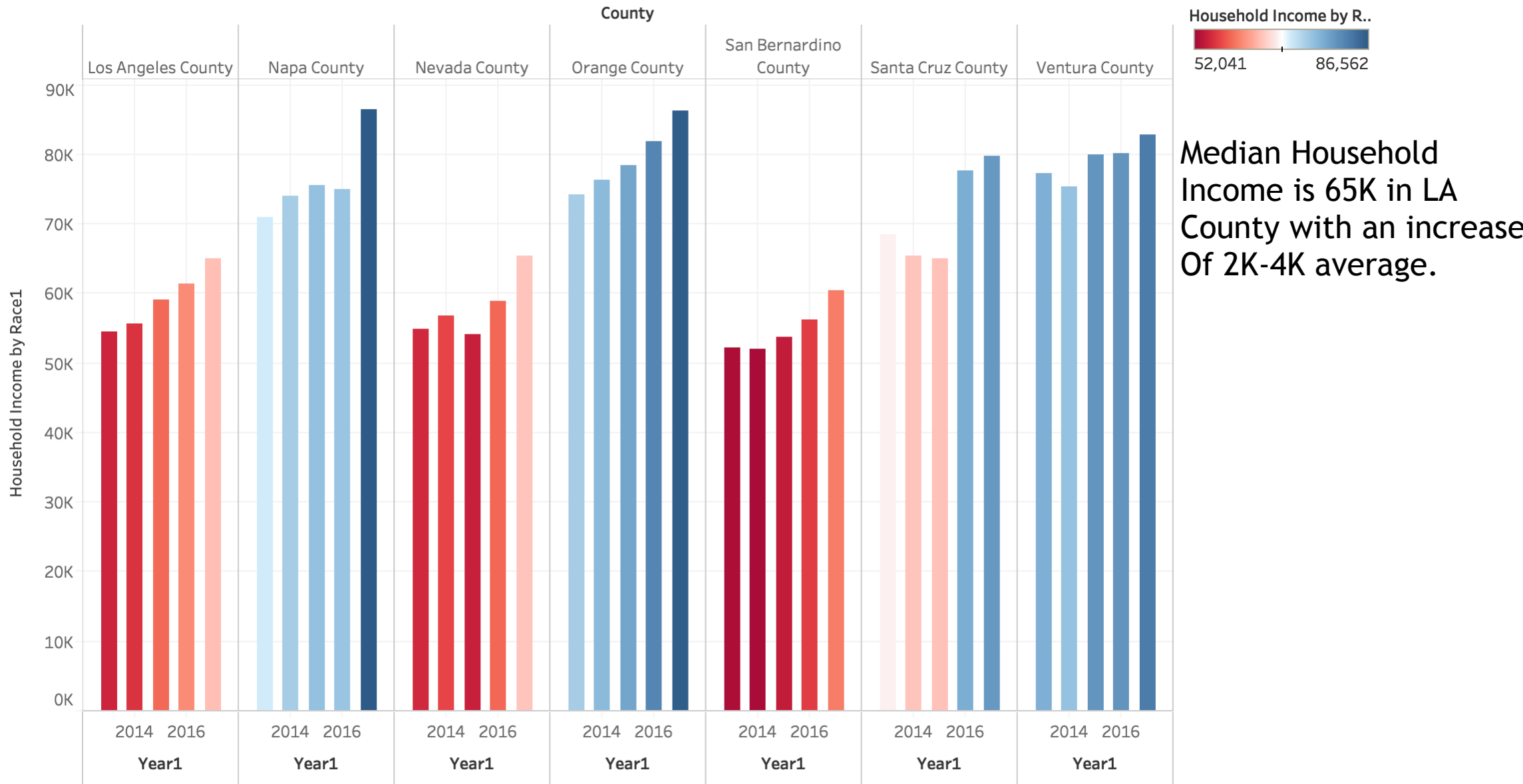
Household Income by Race1 for each Year1. Color shows details about State and Measure Names. Details are shown for County. The view is filtered on State, which keeps 52 of 52 members. US Median Household income is increasing by atleast 2K at max by 3K every year.

California Median Income - 2017



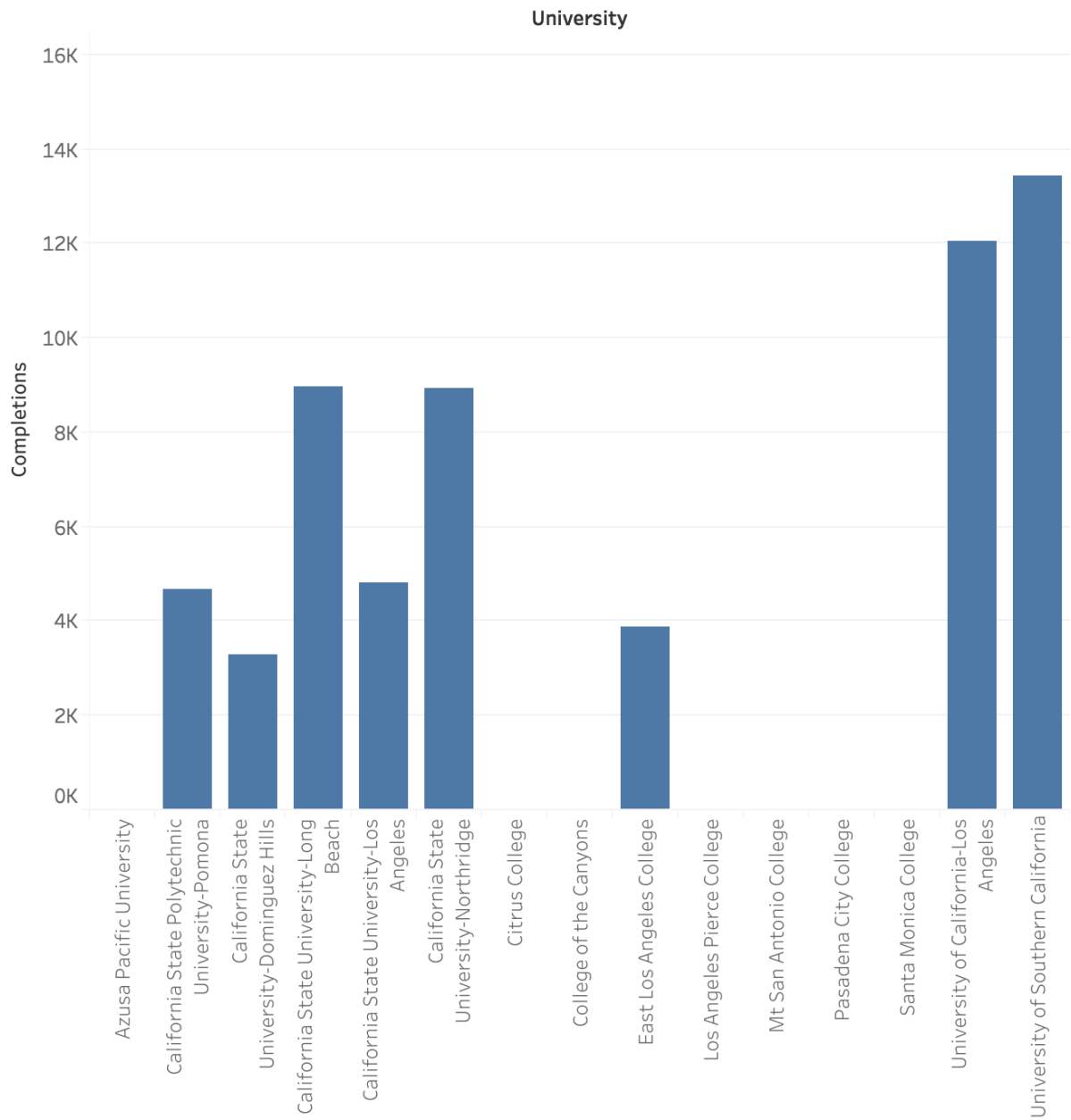
Los Angeles median income has
Been increased by 10K over the
Past 5 years.
65K is the median income.

Household Incomes in & around Los angeles



The plot of sum of Household Income by Race1 (actual & forecast) for Year1 broken down by County. Color shows sum of Household Income by Race1 (actual & forecast) . The data is filtered on State, which keeps CA. The view is filtered on County, which keeps 7 of 667 members. Median Household income is 65K in LA county with an increase of 2k - 4K avg. (5% approx)

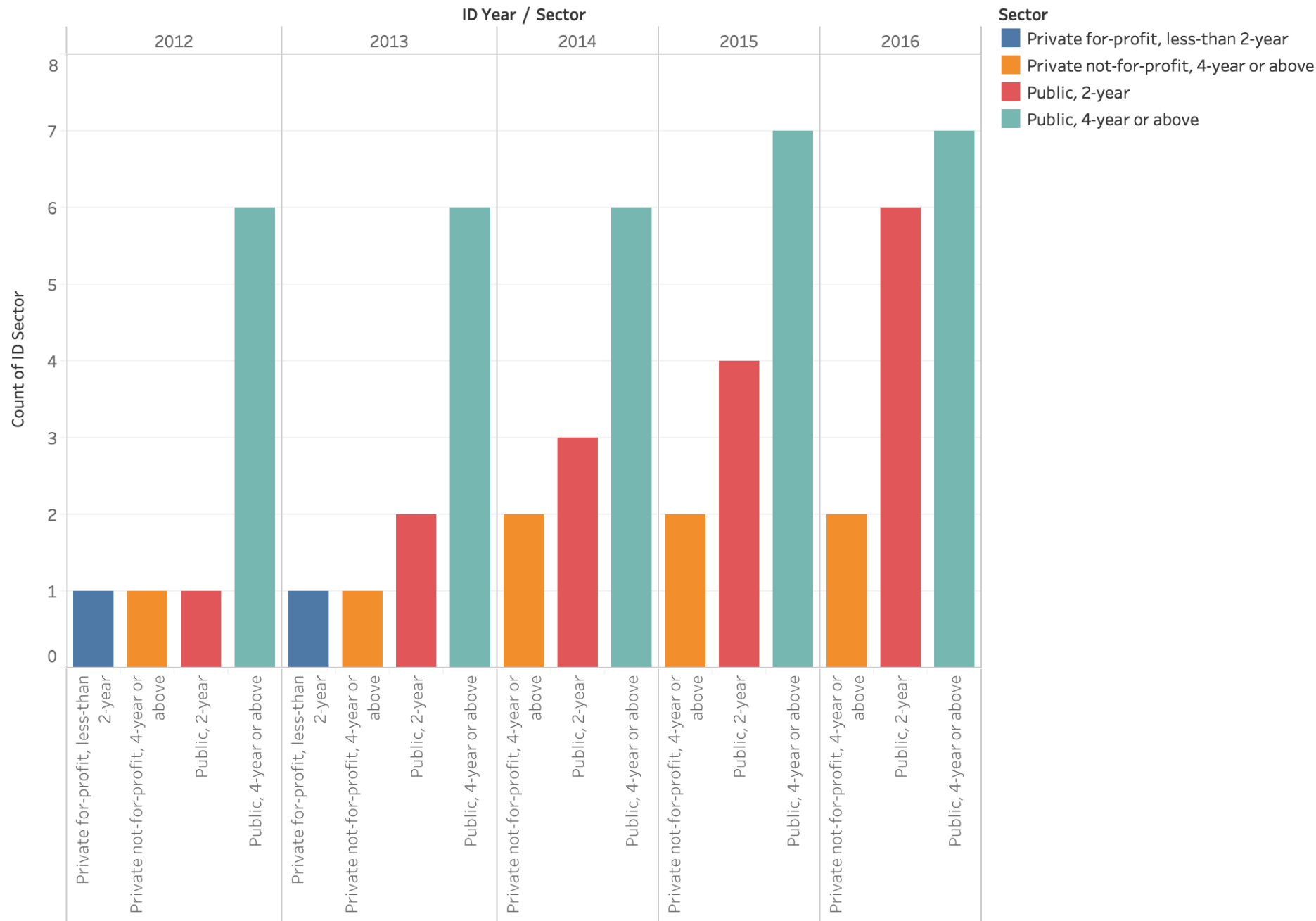
Universities in Los Angeles - 2013



University of southern California awards the Most number of degrees in The year.In 2017, It is 16K.

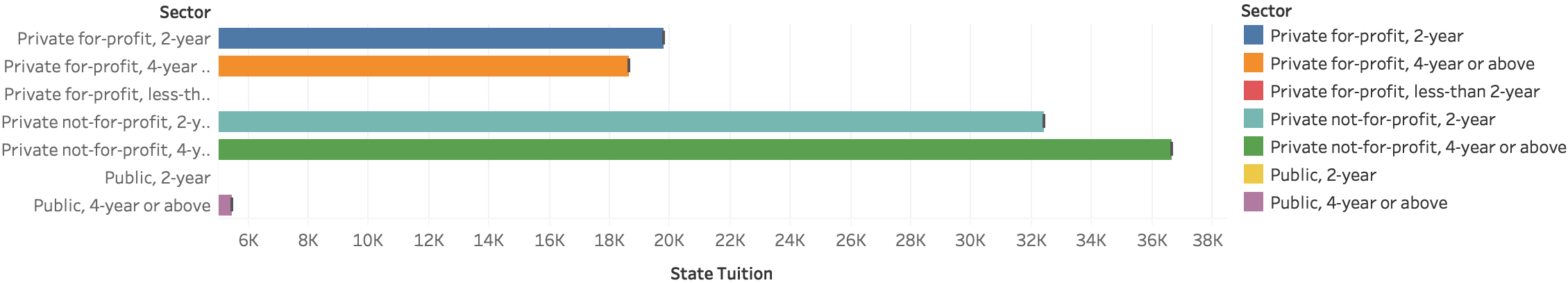
Completions as an attribute for each University. The view is filtered on Completions as an attribute and University. The Completions as an attribute filter keeps non-Null values only. The University filter excludes Long Beach City College, Loyola Marymount University and United Education Institute-Huntington Park Campus.

Universities degree awarded



Count of ID Sector for each Sector broken down by ID Year. Color shows details about Sector.

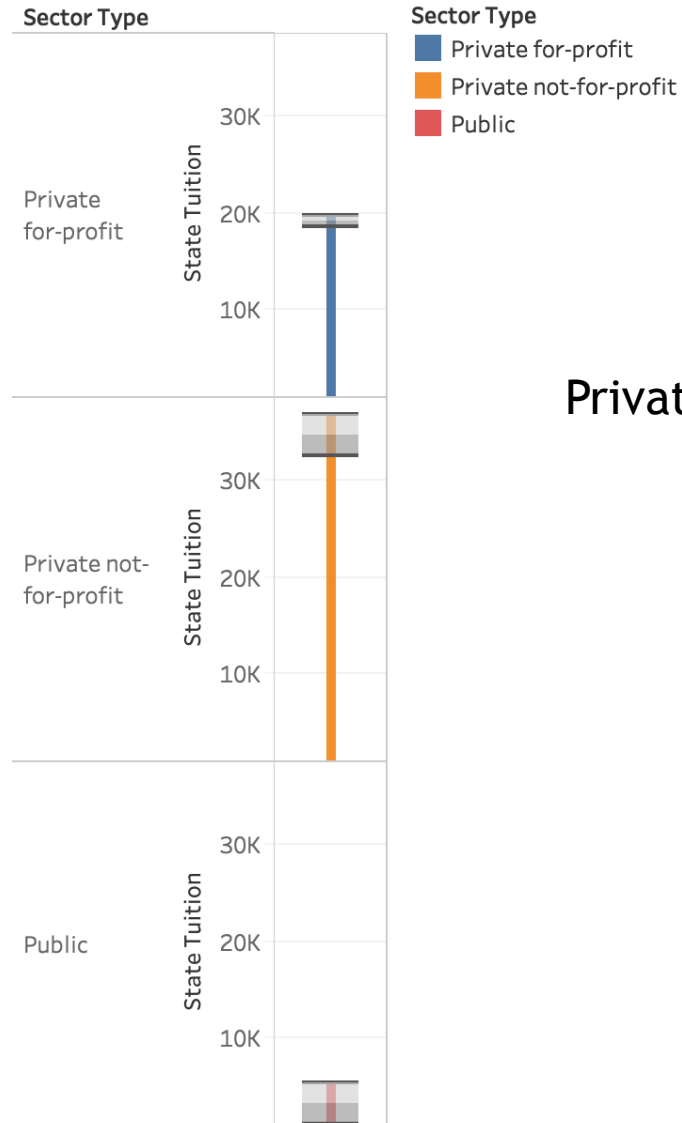
Universities fees - 2016



State Tuition for each Sector. Color shows details about Sector.

Private 4 year degree course - state tuition fee is is 32K per year (affordable)

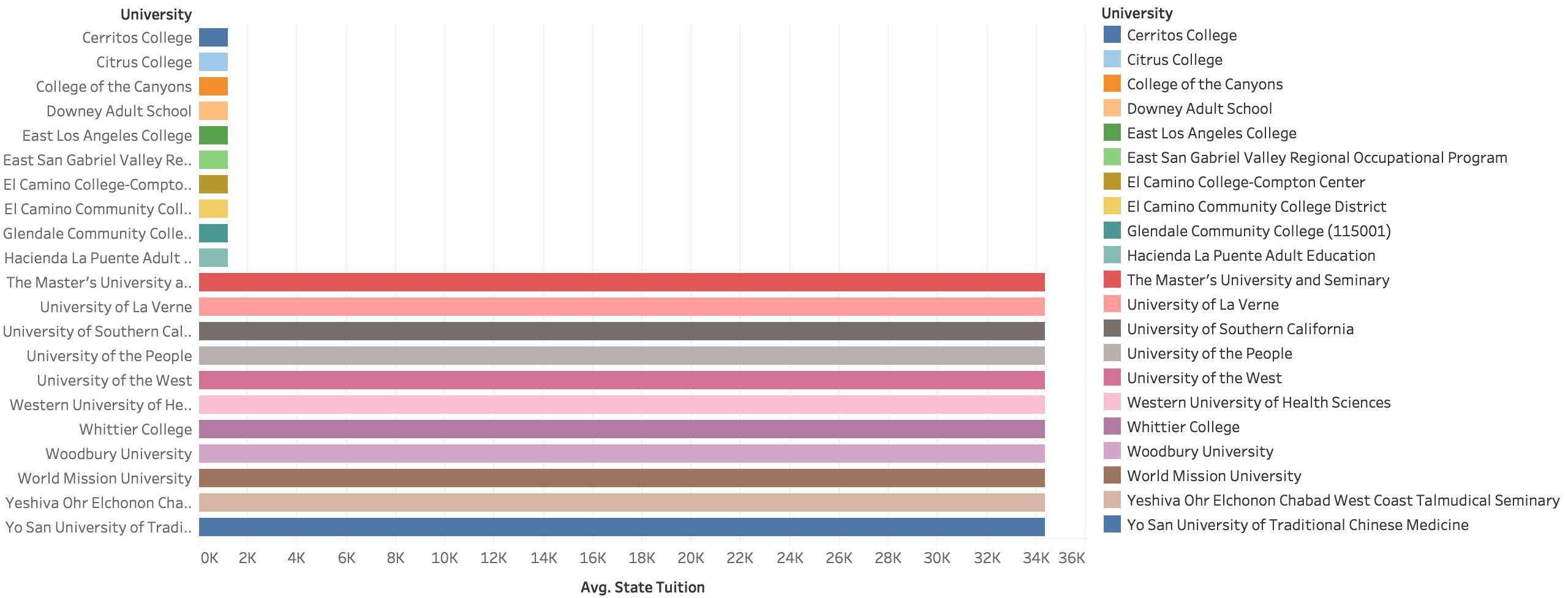
Sector wise Fees Structure



Private fees structure on the rise

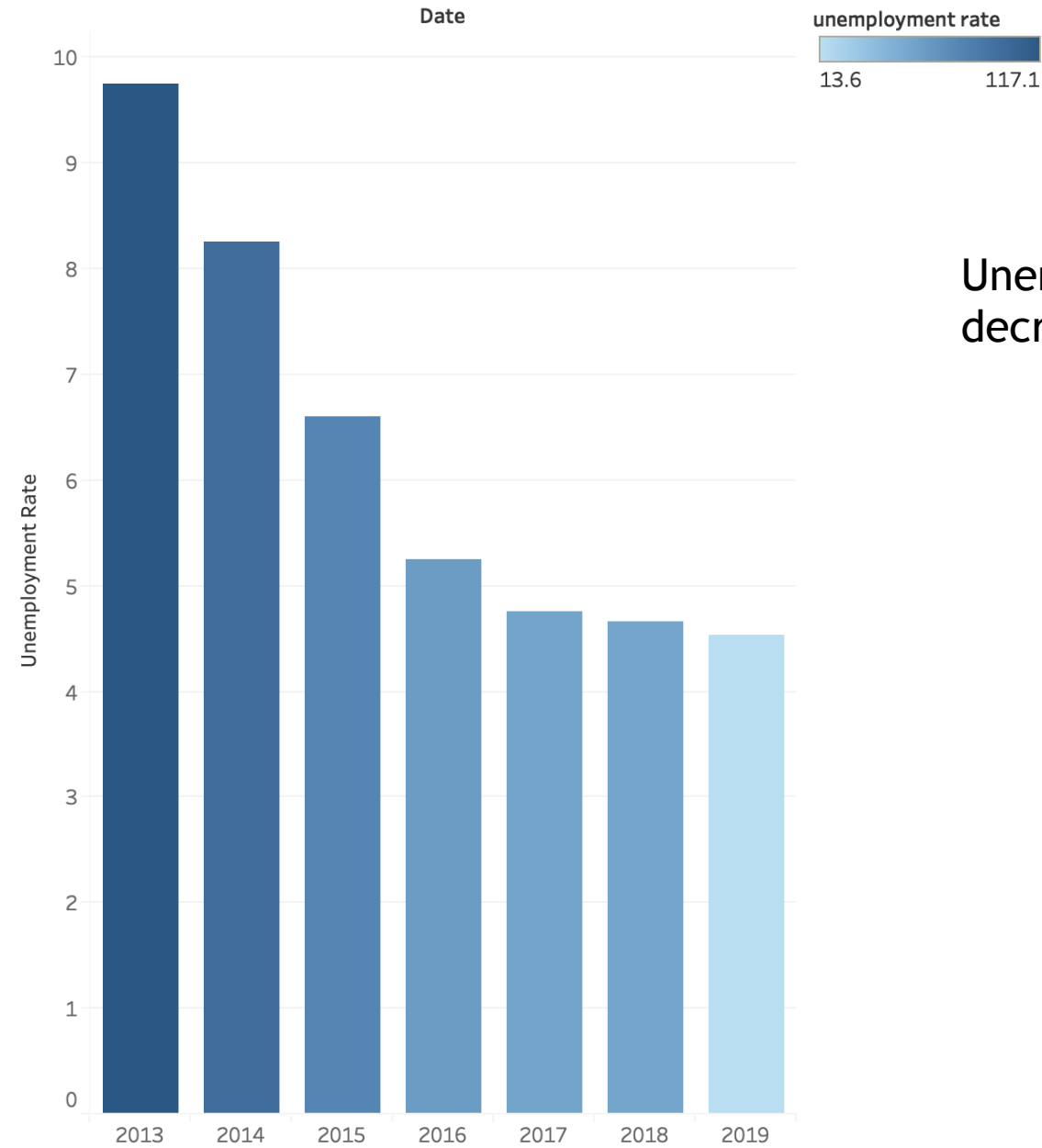
State Tuition broken down by Sector Type on page 2016. Color shows details about Sector Type. Private fees structure is on the rise.

Universities - Top 10 and Bottom 10 - Average State tution fees



Average of State Tuition for each University. Color shows details about University. The data is filtered on Index, which keeps 21 members.
University of Southern California is one of those having the highest fees

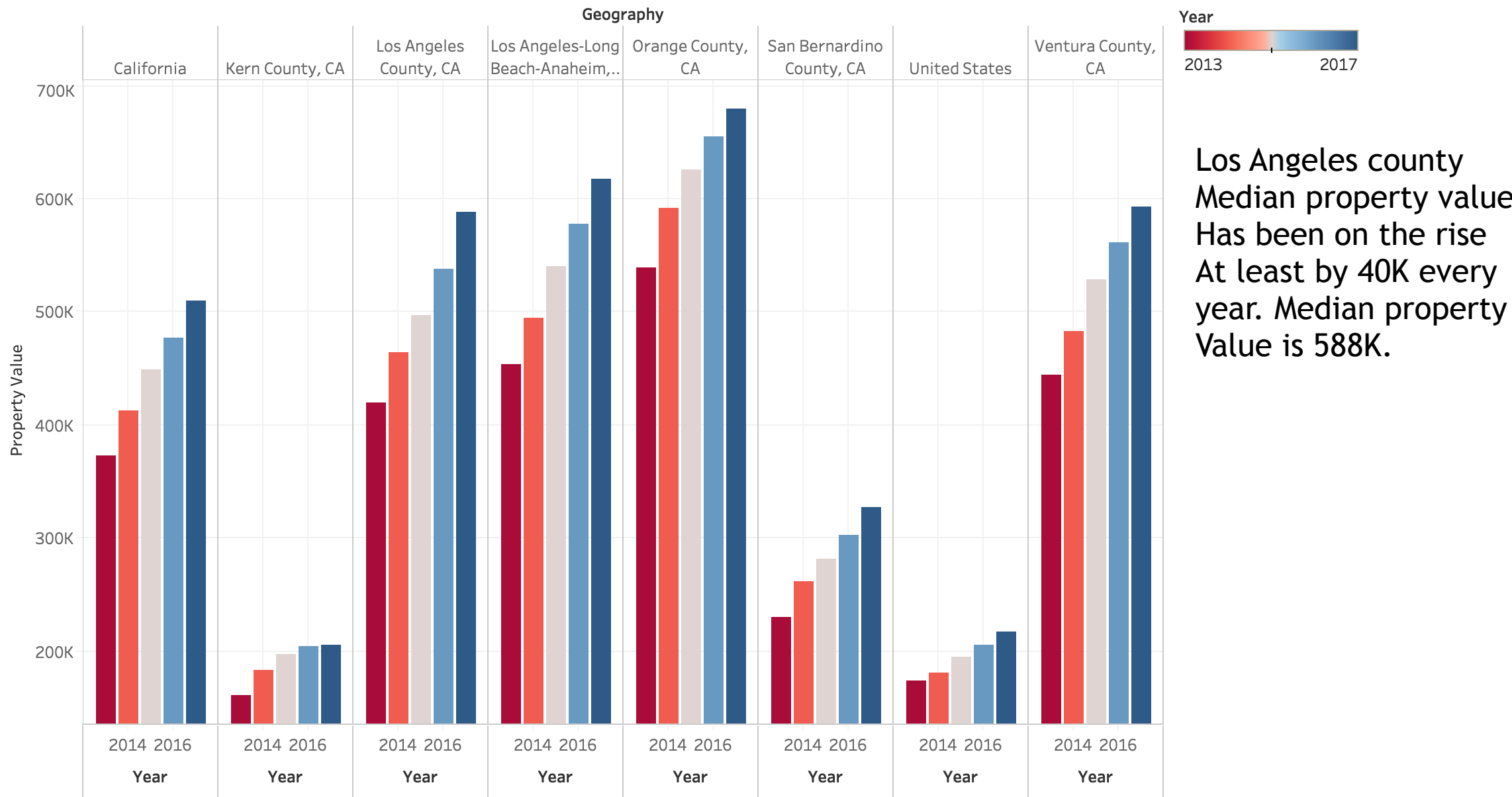
Unemployment Rate



Unemployment rate is gradually decreasing.

Average of unemployment rate for each Date Year. Color shows sum of unemployment rate. The view is filtered on Date Year, which keeps 7 of 30 members.

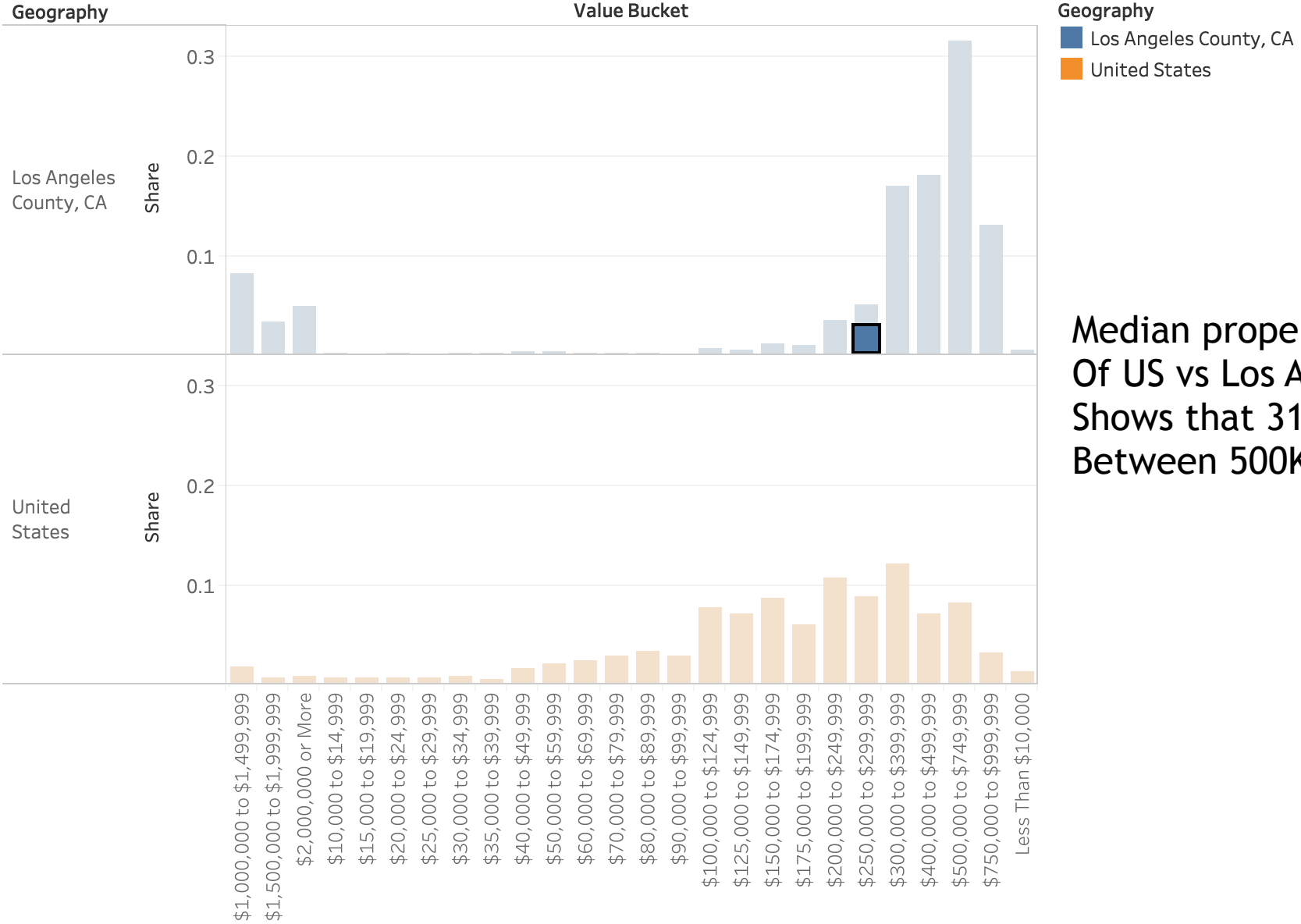
Property value in Los Angeles & around



Los Angeles county
Median property value
Has been on the rise
At least by 40K every
year. Median property
Value is 588K.

Year vs. Property Value broken down by Geography. Color shows details about Year.
The Los Angeles county Median property value has been on the rise atleast by 40K every year. Median property value is 588K.

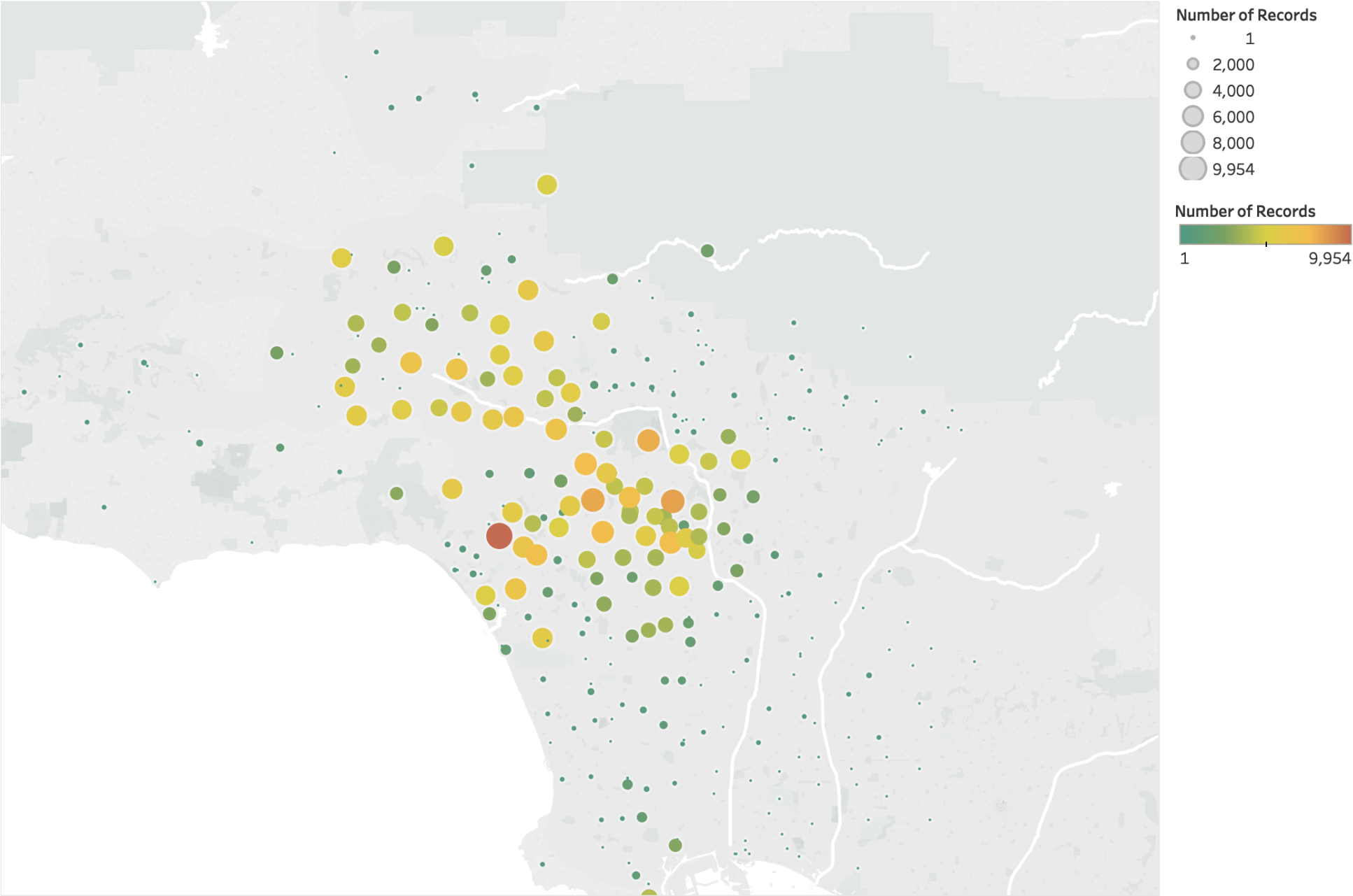
Property value share



Median property value of share
Of US vs Los Angeles county
Shows that 31% of Home ranges
Between 500K to 749K range.

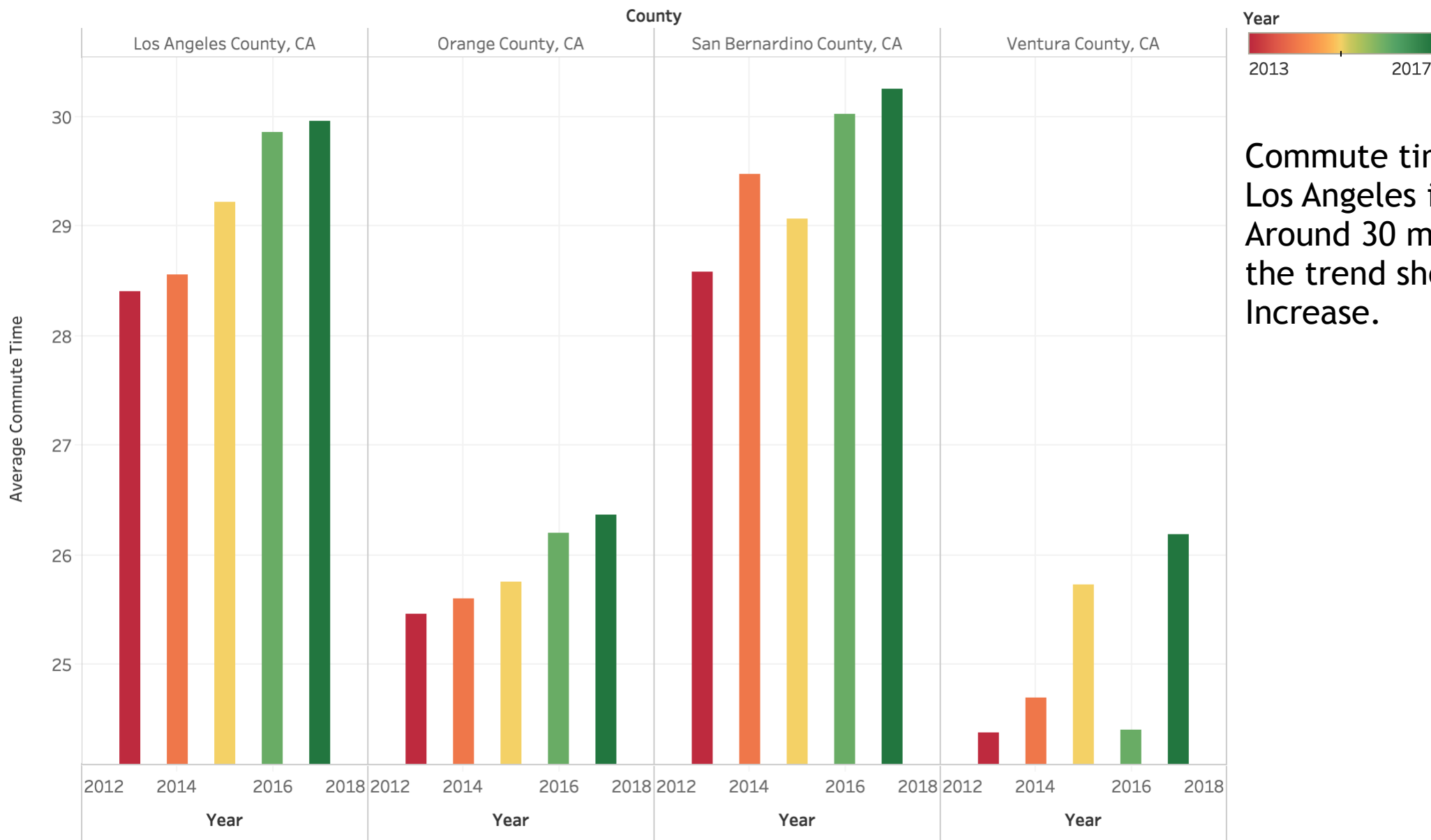
Sum of Share for each Value Bucket broken down by Geography. Color shows details about Geography. Property value of share of US vs Los angeles shows that 31% of Home ranges between 500k to 749K range.

Active Business



Map based on Longitude (generated) and Latitude (generated). Color shows sum of Number of Records. Size shows sum of Number of Records. Details are shown for zip 1. The view is filtered on zip 1, which has multiple members selected.

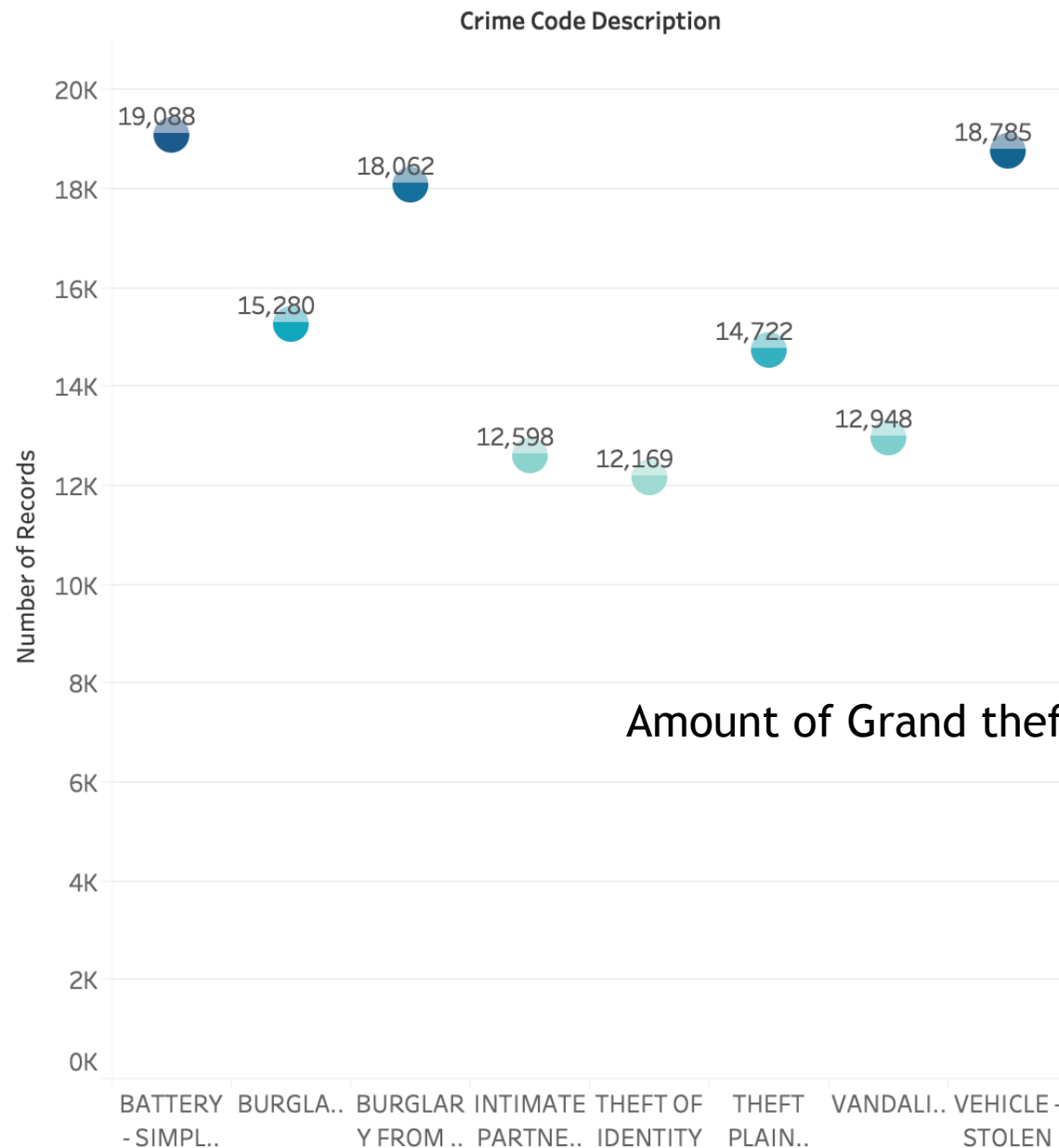
Commute time



Commute time in Los Angeles is average Around 30 minutes & the trend shows to Increase.

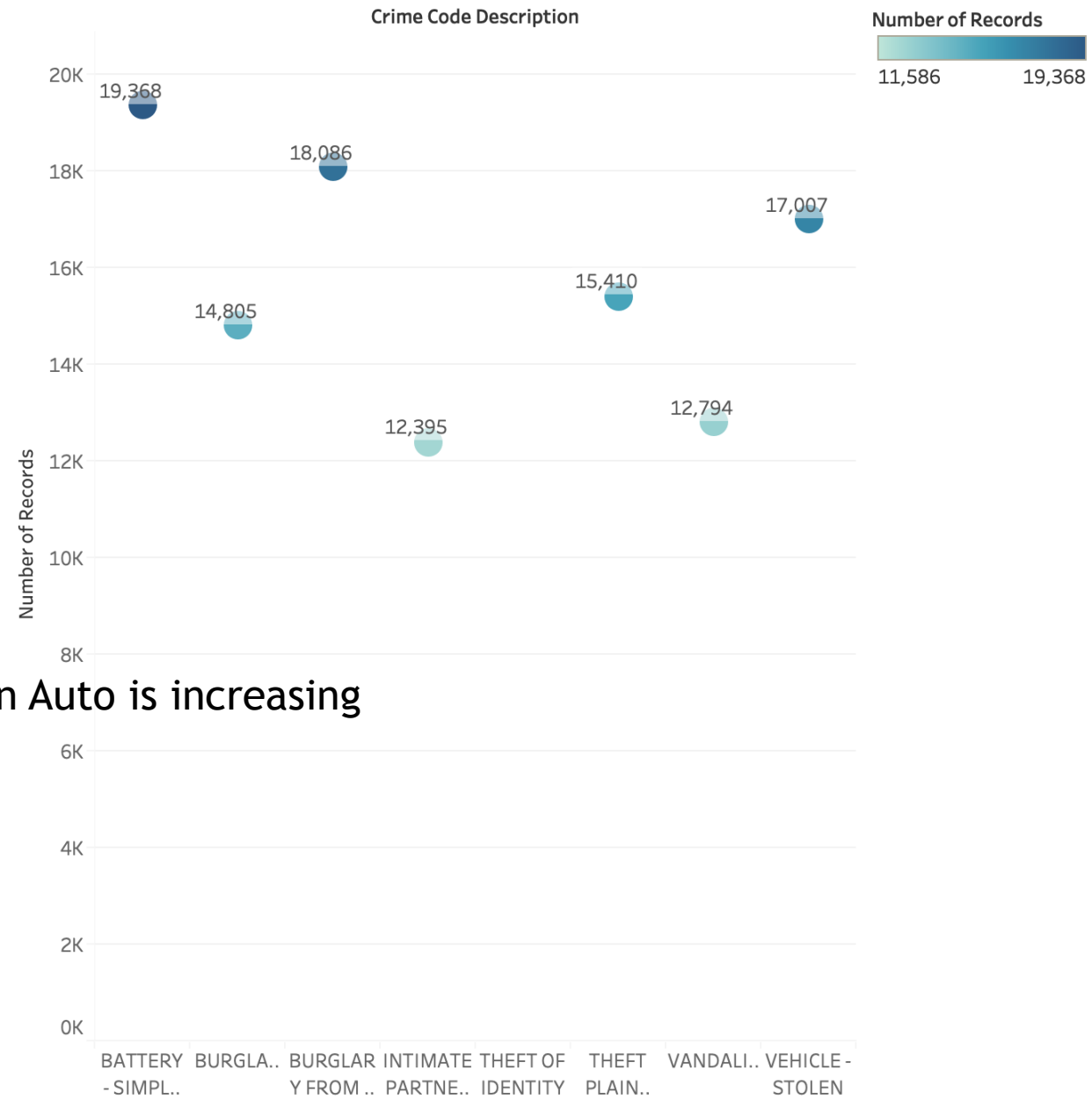
Year vs. Average Commute Time broken down by County. Color shows details about Year. The data is filtered on State and County - Split 1. The State filter keeps CA. The County - Split 1 filter keeps Los Angeles County, Orange County, San Bernardino County and Ventura County. Commute time in Los angeles is average around 30 minutes and the trend shows to increase.

Crime Types In LA over years - 2017



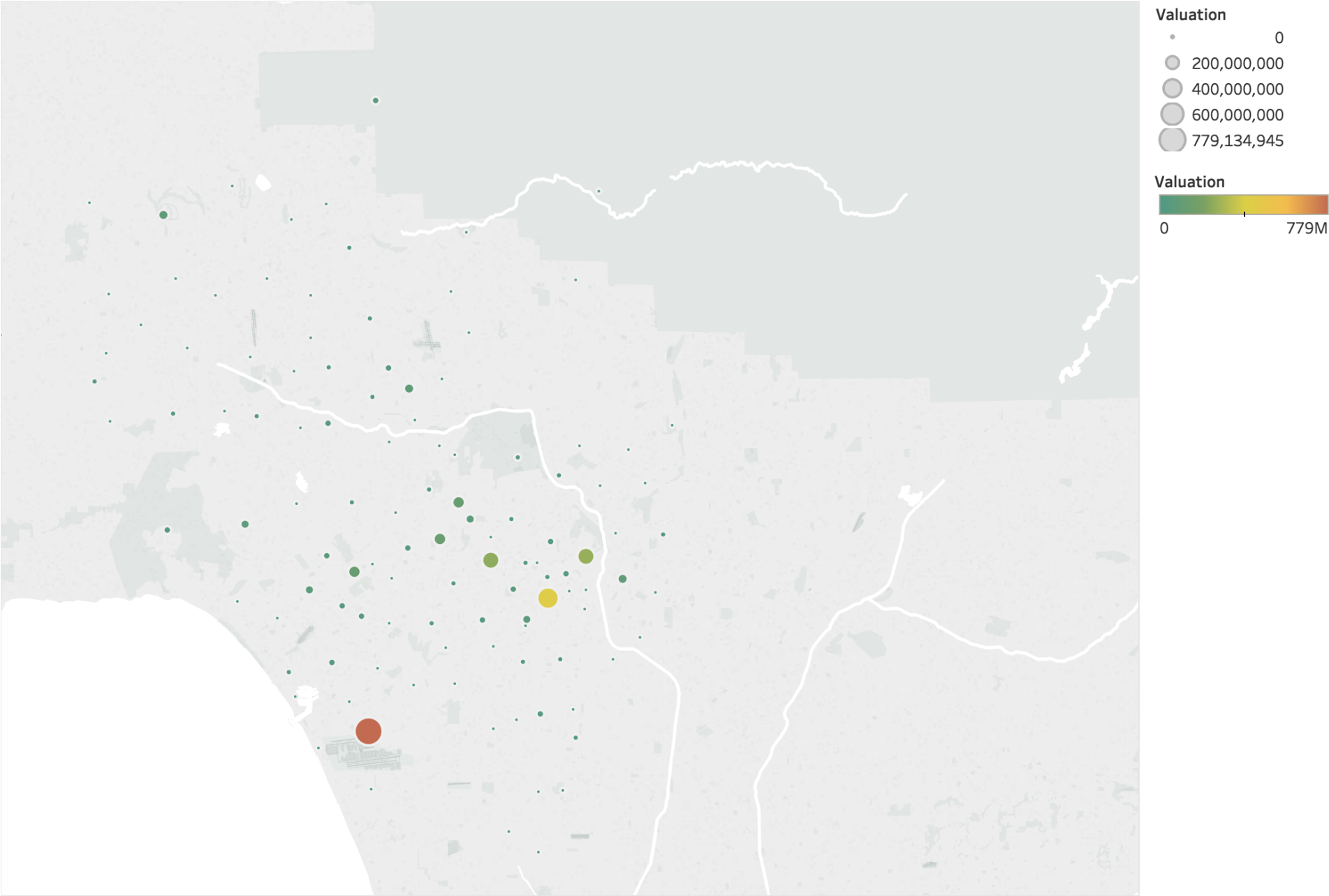
Amount of Grand theft in Auto is increasing

Crime Types In LA over years - 2018



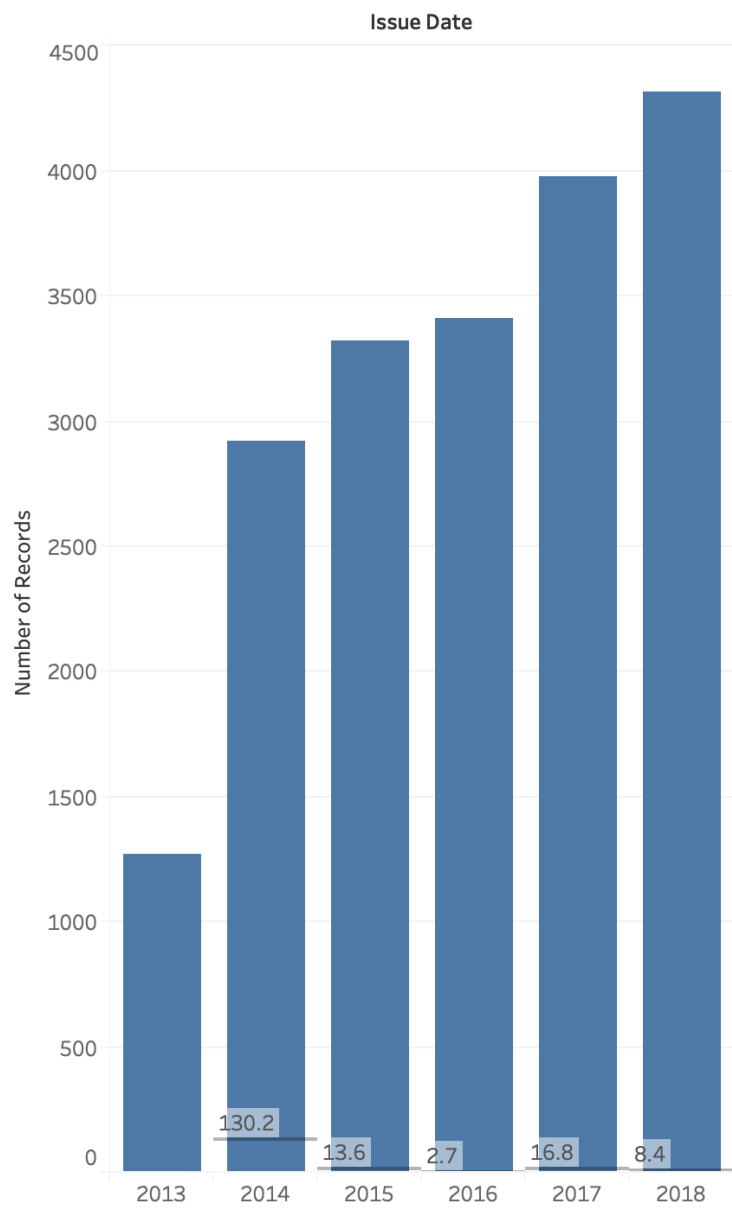
Sum of Number of Records for each Crime Code Description. Color shows sum of Number of Records. The data is filtered on count of Number of Records, which ranges from 11,155 to 20,521. The view is filtered on Date Occurred Year, which excludes 2010, 2011, 2012 and 2019.

New Building Permits Map



Map based on Longitude (generated) and Latitude (generated). Color shows sum of Valuation. Size shows sum of Valuation. Details are shown for Zip Code. The data is filtered on Issue Date Year, which keeps 2019.

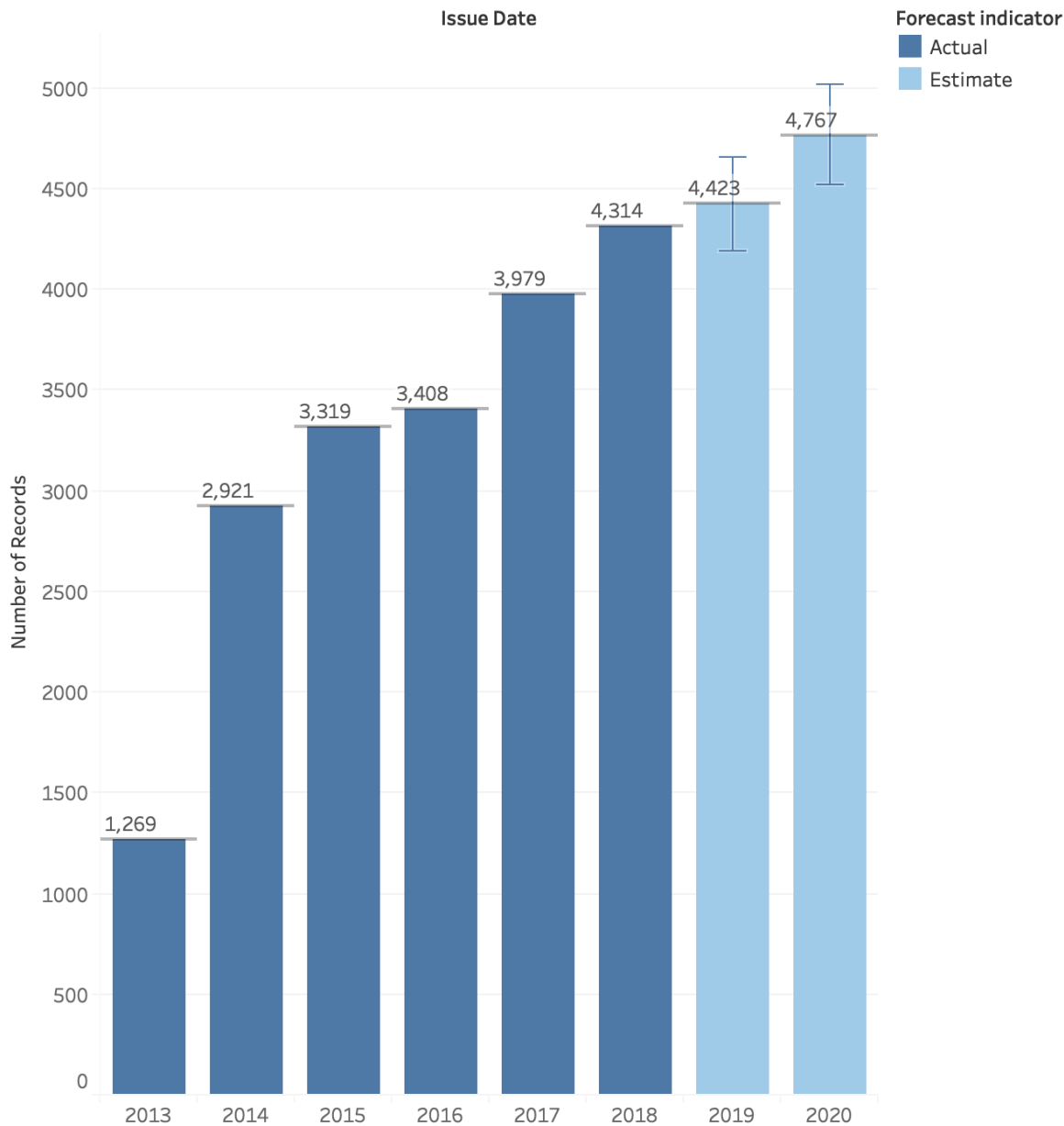
New Building Permit Percentage Change



New Buildings permit increases
By 8-16% per year over the last years

Sum of Number of Records (actual & forecast) for each Issue Date Year. The data is filtered on Permit Type and Permit Sub-Type. The Permit Type filter keeps Bldg-New. The Permit Sub-Type filter keeps 1 or 2 Family Dwelling and Apartment. The view is filtered on Issue Date Year, which keeps 6 members.

New Buildings Permit Forecast



Sum of Number of Records (actual & forecast) for each Issue Date Year. Color shows details about Forecast indicator. The data is filtered on Permit Type and Permit Sub-Type. The Permit Type filter keeps Bldg-New. The Permit Sub-Type filter keeps 1 or 2 Family Dwelling and Apartment.

To think about LA

- Population growth is slowly increasing.
- Household income is increasing by 10K over the past 5 years.
- No.of students graduated out of the schools are on the rise.
- Private fee structures are on the rise.
- Unemployment rate is on the decrease.
- Median property value is around 500 to 749K.
- Commute time to work in around LA on average is 30 minutes(min)
- The top crime in LA county is Grand Theft - Auto and it is on the rise.
- New Building permit in LA county is on the rise.
- There is an imbalance on the way based on this data.