LOS ANGELES CRIME

LA CRIME /ARRESTMENT

2020-2022

BACKGROUND & PROBLEM

LA CRIME

Los Angeles, CA is known for its high crime rates. According to the latest statistics, the violent crime rate in **Los Angeles is 29.1 compared to the US average of 22.7.** Similarly, property crime in **Los Angeles stands at 35.8** which is slightly higher than the **US average of 35.4.**

- **Population Density**
- **Economic conditions** (median income, poverty level, and job availability)
- **Cultural factors** (educational, recreational, and religious characteristics)
- **Effective strength of law enforcement agencies**

LA CRIME ANALYSIS

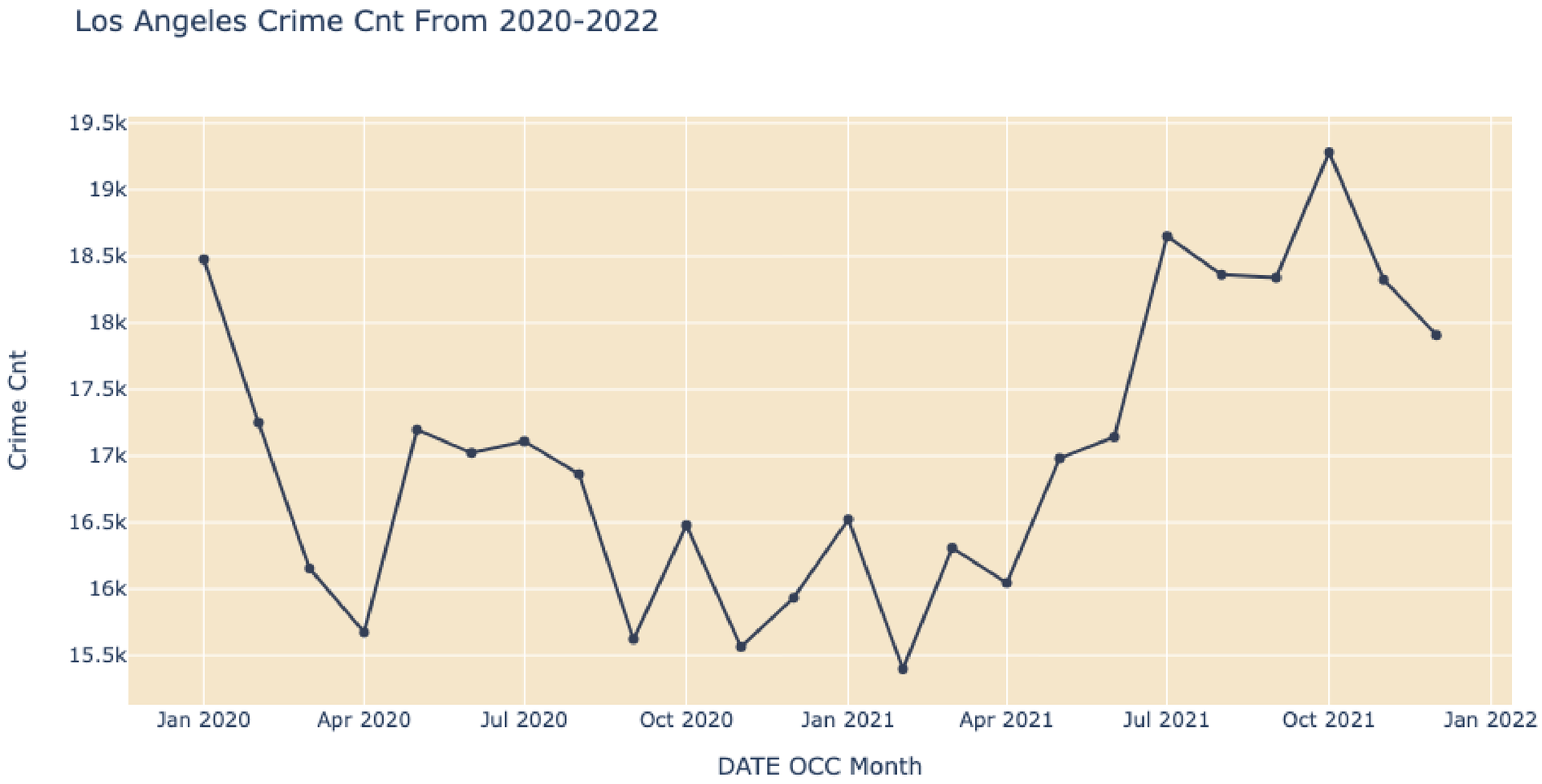
SOLUTION

An informative data product that helps residents and travelers navigate the city safely with ease.

VISUALS

- Crime Statistics of Los Angeles
- Victim Demographic Statistics (Ethnicity, Gender, Age Group)
- Interactive Visuals/Dashboards
- Crime Map
- Other Factors

GENRAL STATISTICS



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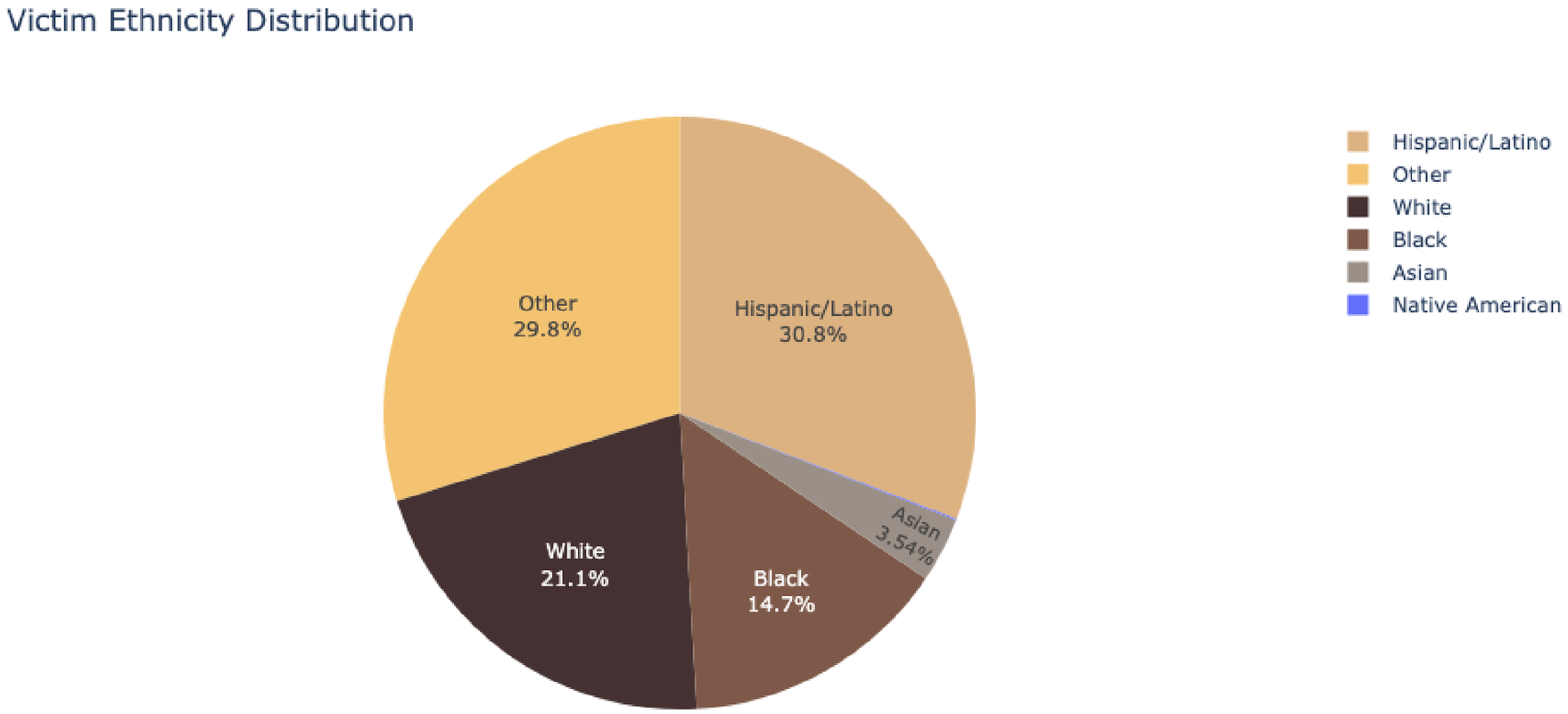

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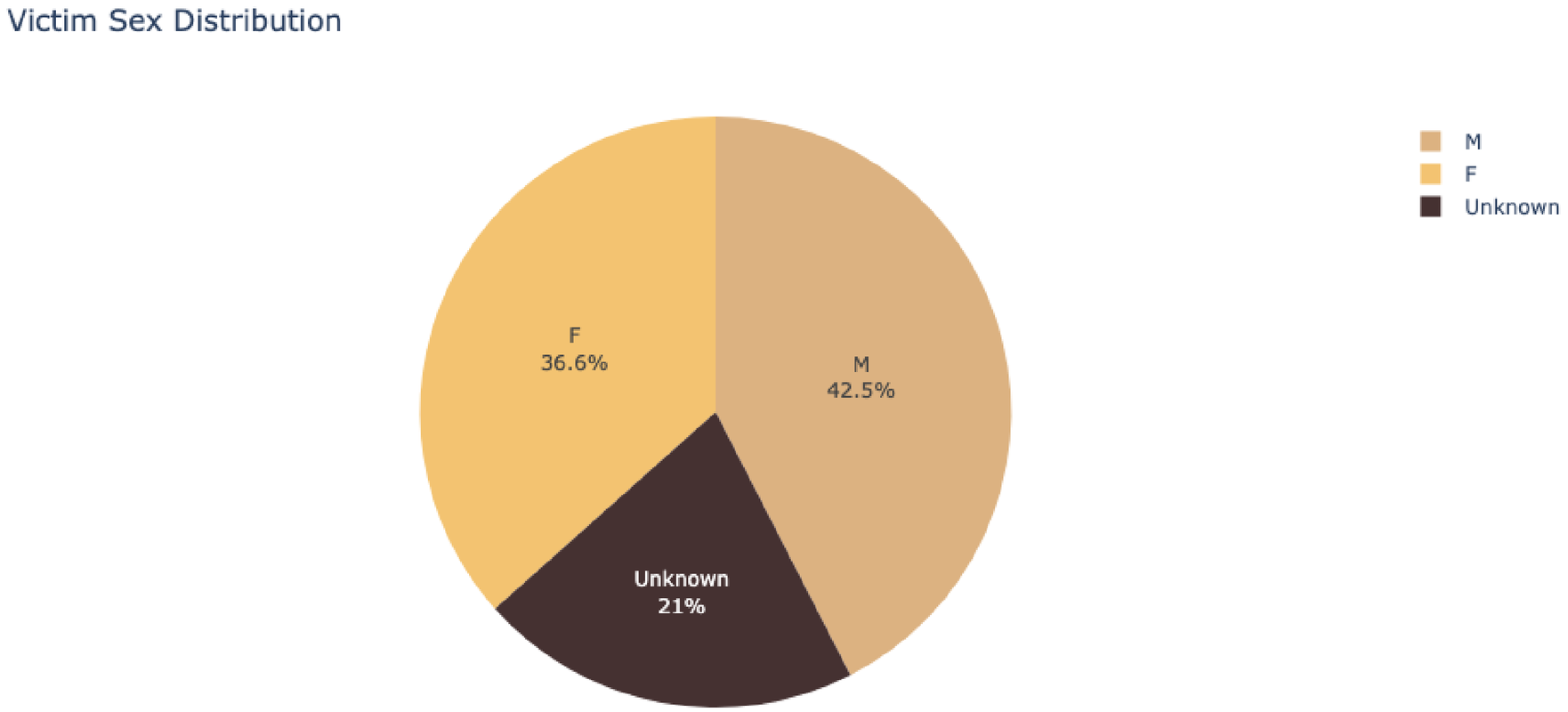

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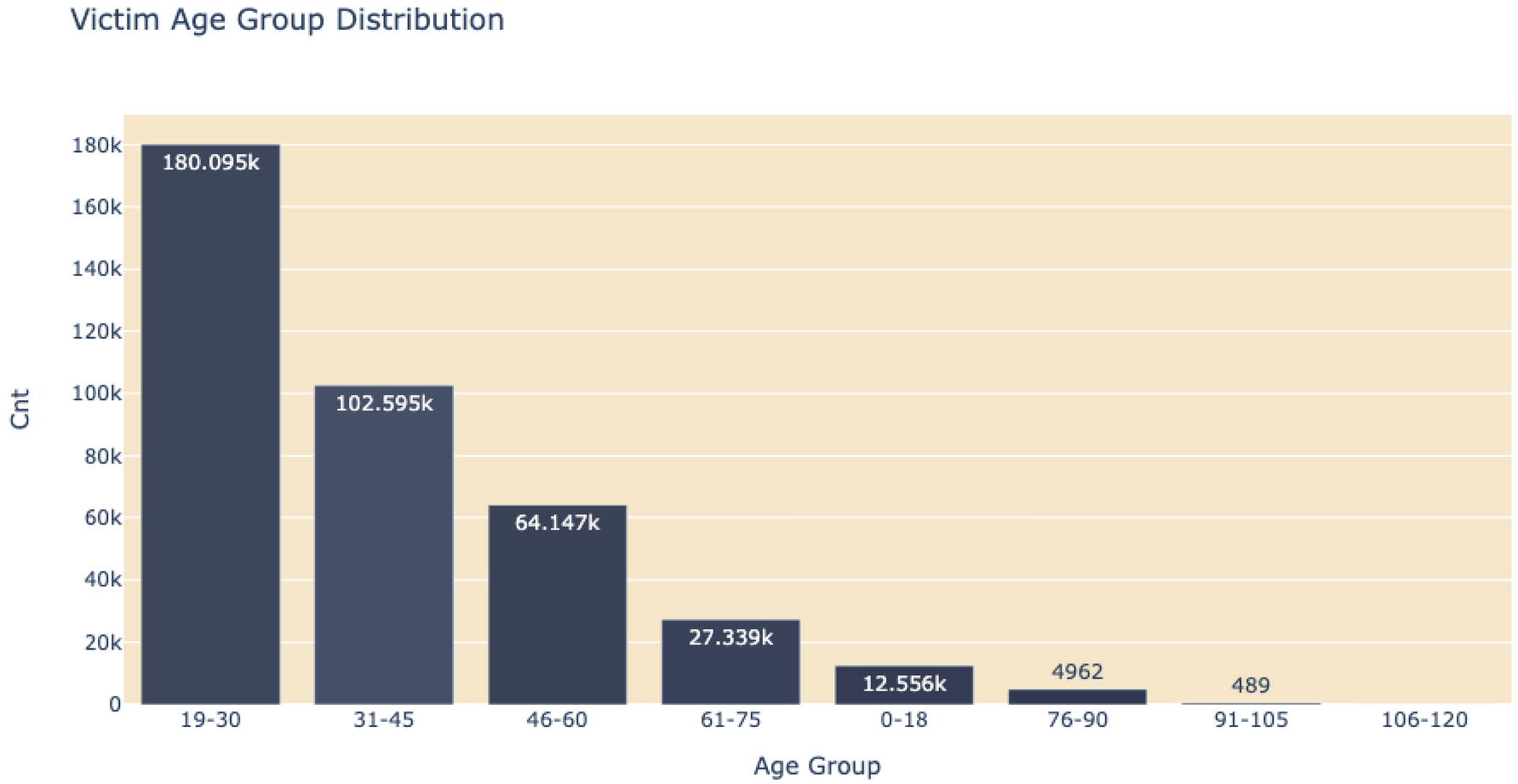

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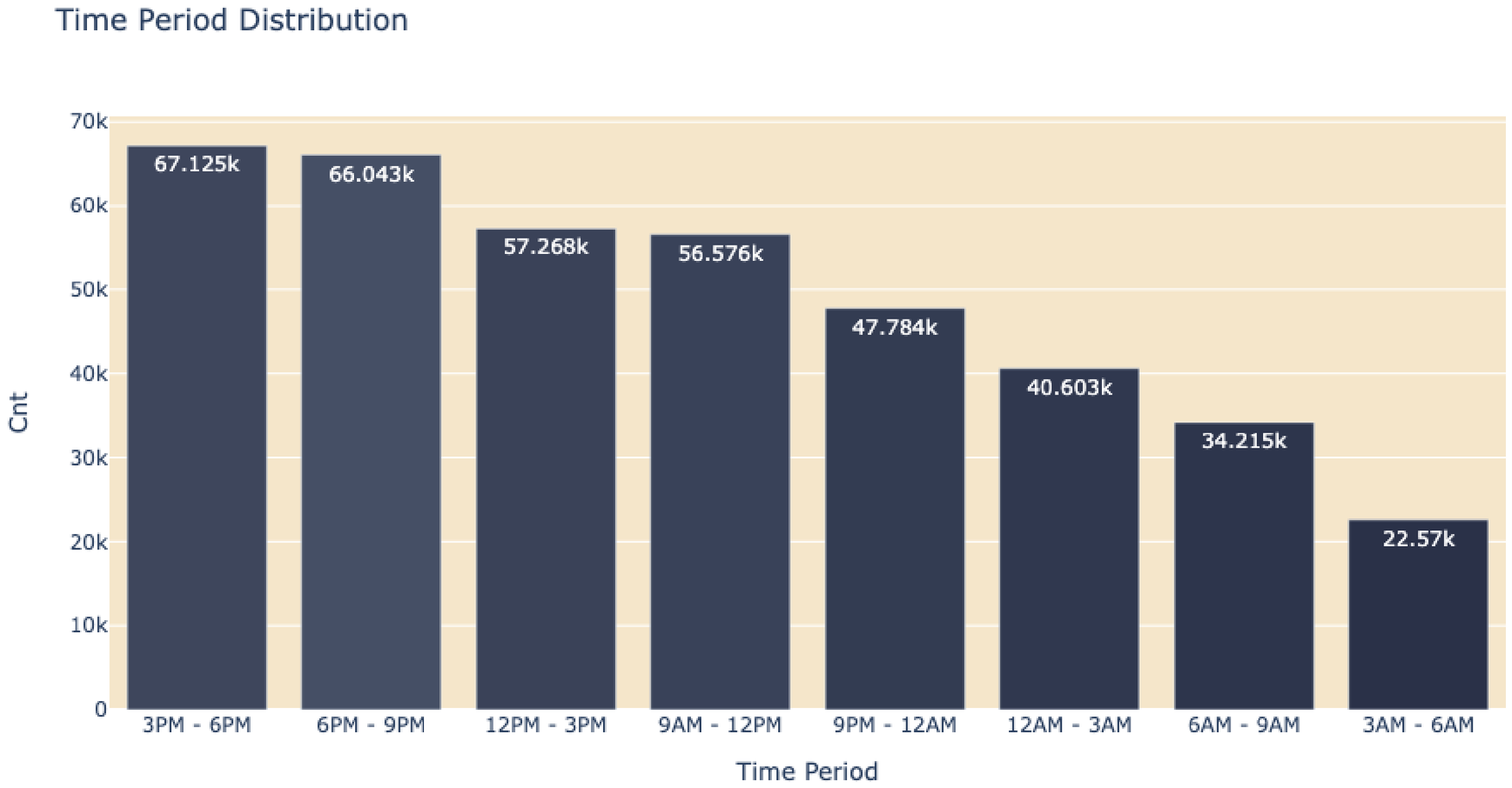


INTERACTIVE VISUALS

```python
#Number of Crime Count between timeperiod in a area
app = JupyterDash(__name__)

app.layout = html.Div([
    html.H3('Area / Time Period Selection:'),
    dcc.Dropdown(id='dropdown1',
                 options=data['AREA NAME'].unique(),
                 value='77th Street'),
    html.Br(),
    dcc.Dropdown(id='dropdown2',
                 options=data['Time Period'].unique(),
                 value='12PM - 3PM'),
    dcc.Graph(id='visual')
])
@app.callback(Output('visual', 'figure'), Input('dropdown1', 'value'), Input('dropdown2', 'value'))
def plot(area, timeperiod):
    df = pd.DataFrame(data.groupby(['AREA NAME','Time Period'])['Crime Category'].value_counts())\
    .rename(columns={'Crime Category':'Cnt'}).reset_index()

    fig=px.bar(
        df.loc[(df['AREA NAME']==area)&(df['Time Period']==timeperiod)],
        x='Crime Category',
        y='Cnt',
        color='Crime Category',
        text_auto=True,
        title=f'Number of Crime Count between {timeperiod} in {area}'
    )

    return fig

if __name__ == '__main__':
    app.run_server(mode='inline', debug=True, port=6005)
```

AREA STATISTICS

DEMOGRAPHIC STATISTICS

CRIME STATISTICS

AGE / ETHNICITY / GENDER

CRIME MAP

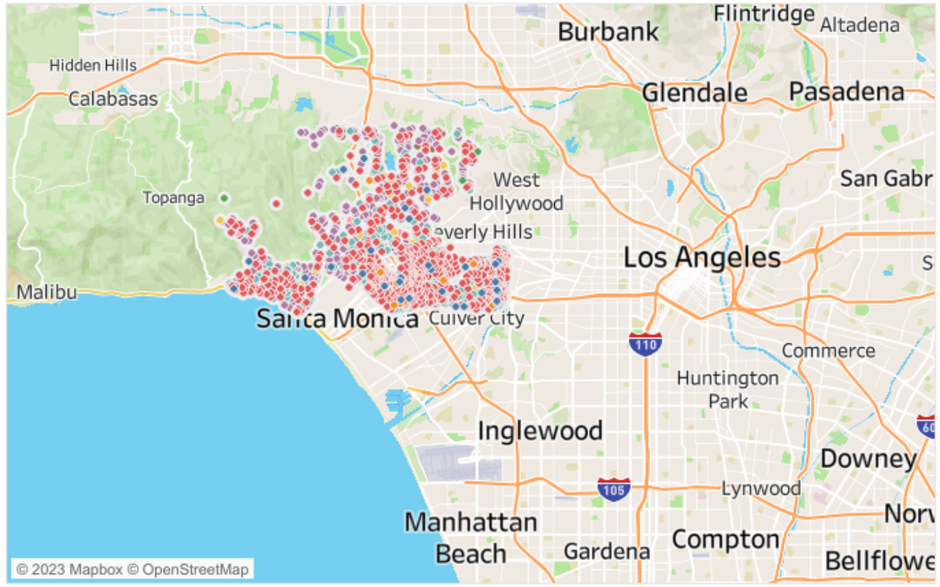
LA CRIME BY CRIME CATEGORY

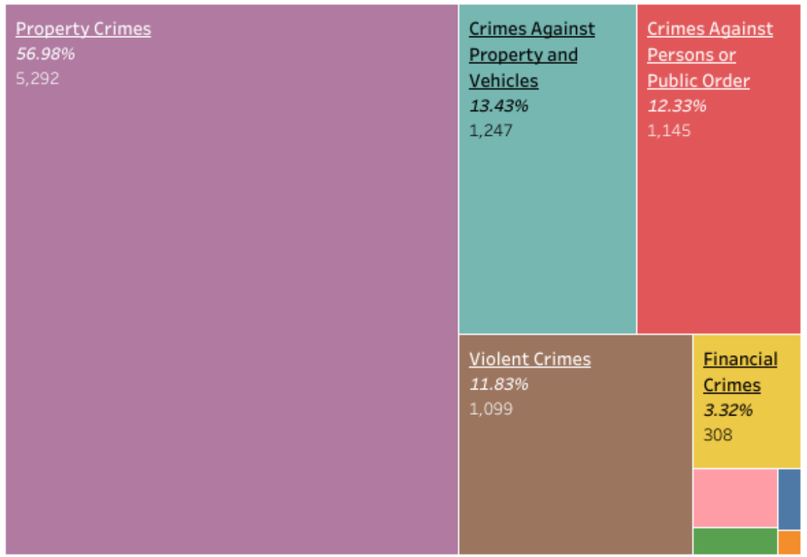
Area Name
West LA

Year
2020

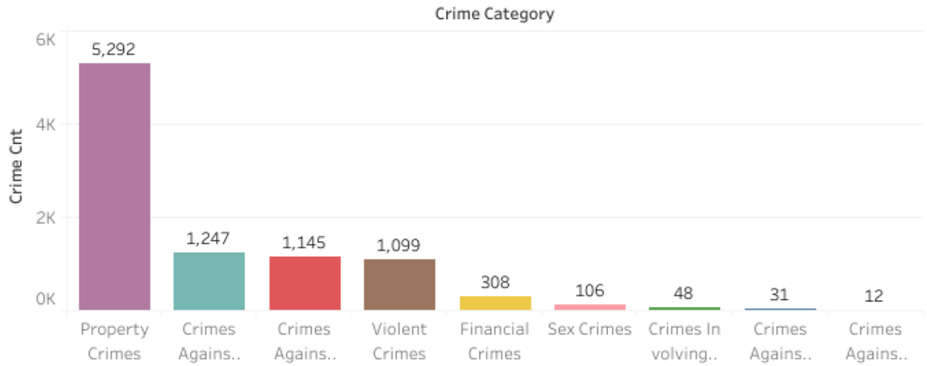
Crime Category
- Crimes Against Children
- Crimes Against Law Enforcement
- Crimes Against Persons or Publi..
- Crimes Against Property and Ve..
- Crimes Involving Weapons
- Financial Crimes
- Property Crimes
- Sex Crimes
- Violent Crimes

Los Angeles Crime Spotting (2020-2021)

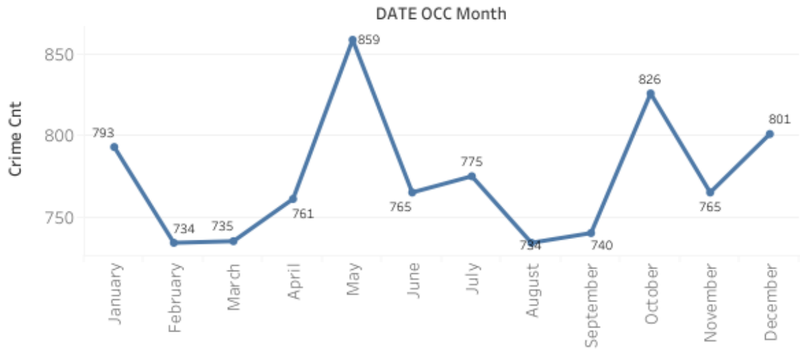




Crime Cnt in Each Crime Category



Crime Cnt in Each Month



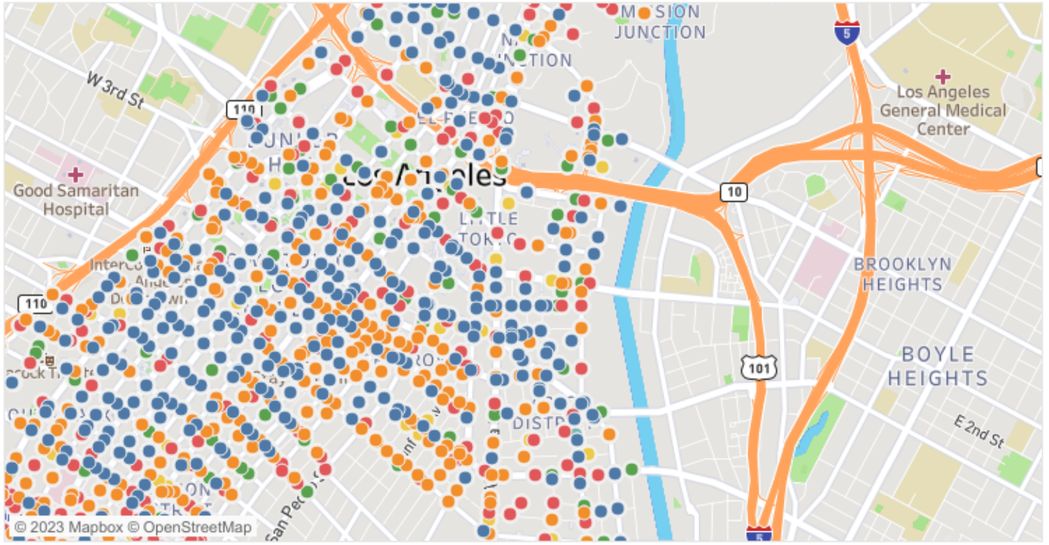
LA CRIME BY VICTIM ETHNICITY

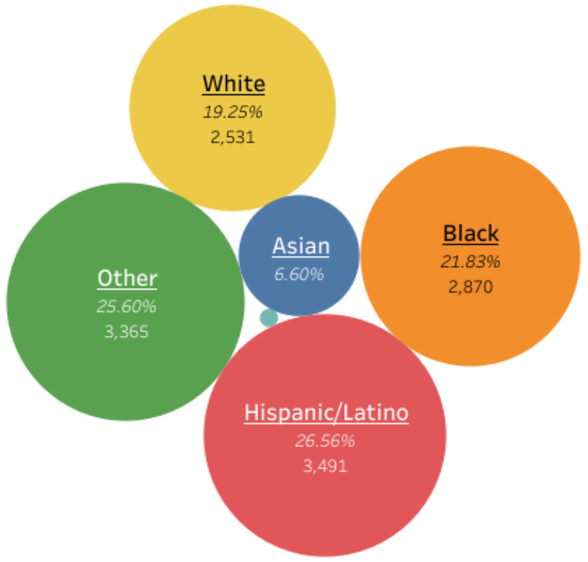
Area Name
Central

Year
2021

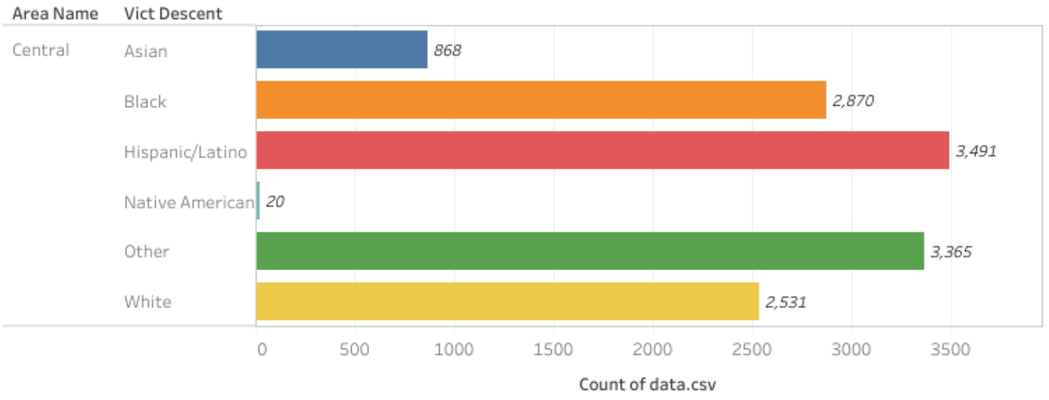
Vict Descent
Asian
Black
Hispanic/Latino
Native American
Other
White

Los Angeles Crime Spotting (2020-2021)

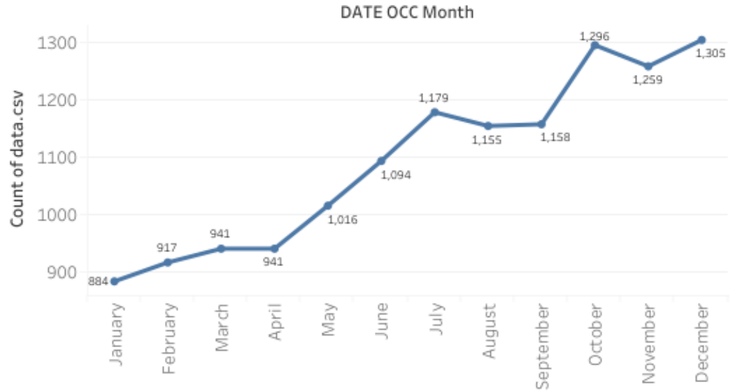




Crime Cnt of Each Area of Each Ethnicity



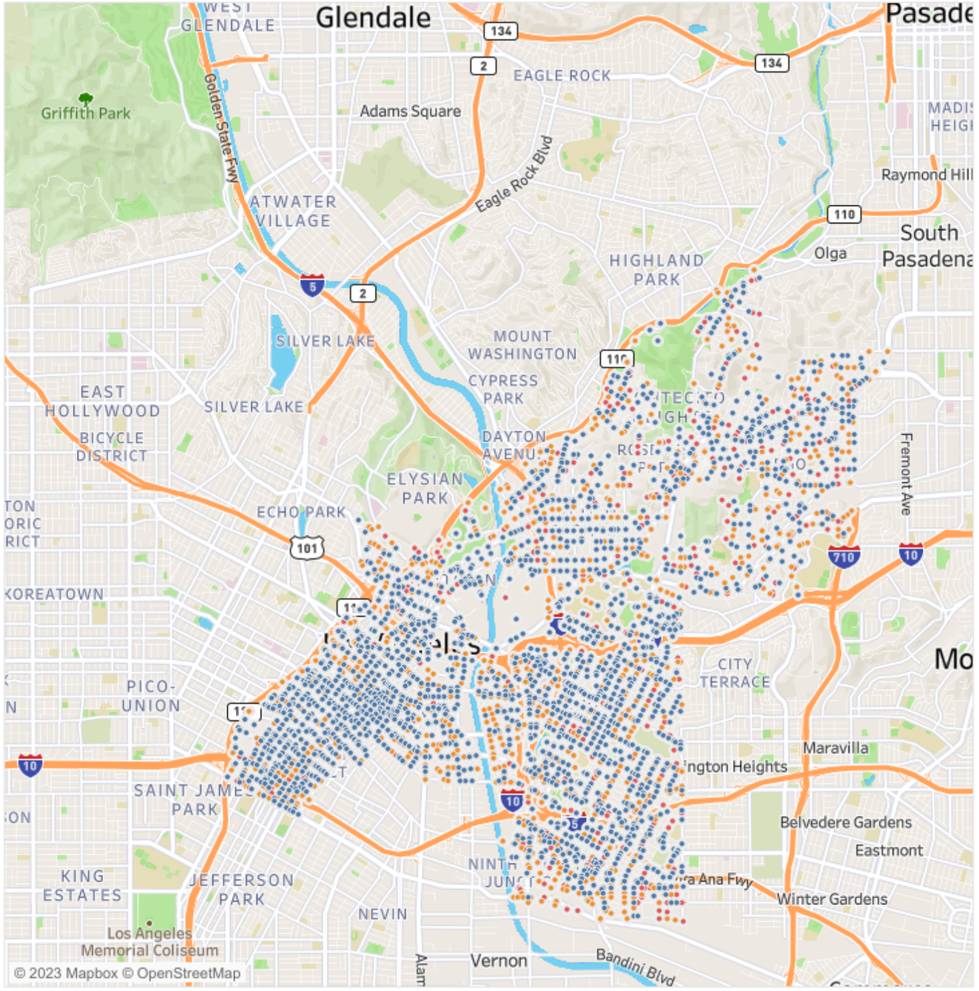
Crime Cnt in Each Month



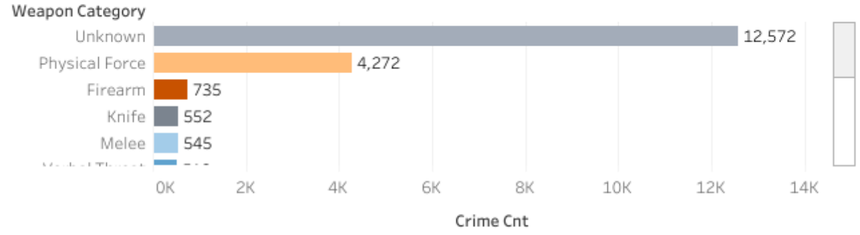
LA CRIME BY TIME PERIOD

Time Period All | Year 2020 | Area Name Multiple values | Vict Sex F M

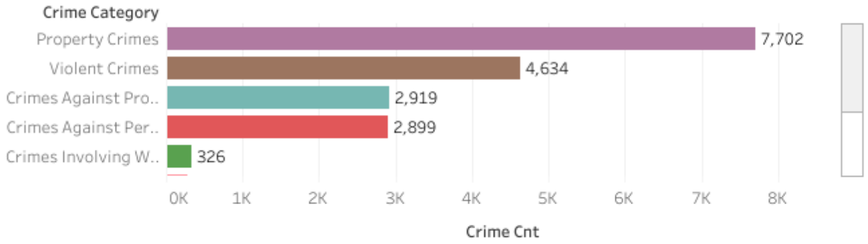
Los Angeles Crime Spotting (2020-2021)



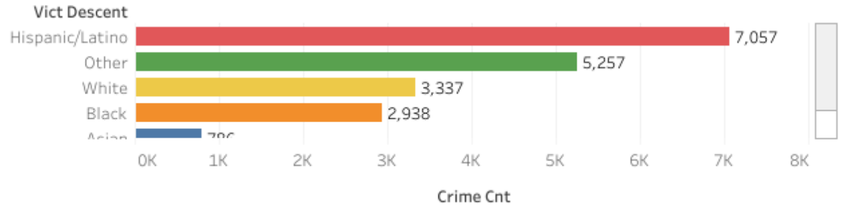
Crime Cnt of Different Weapon Used



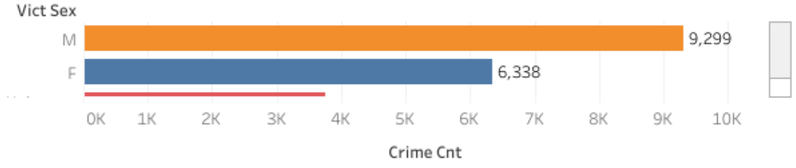
Crime Cnt of Different Crime Category



Crime Cnt of Different Ethnicity

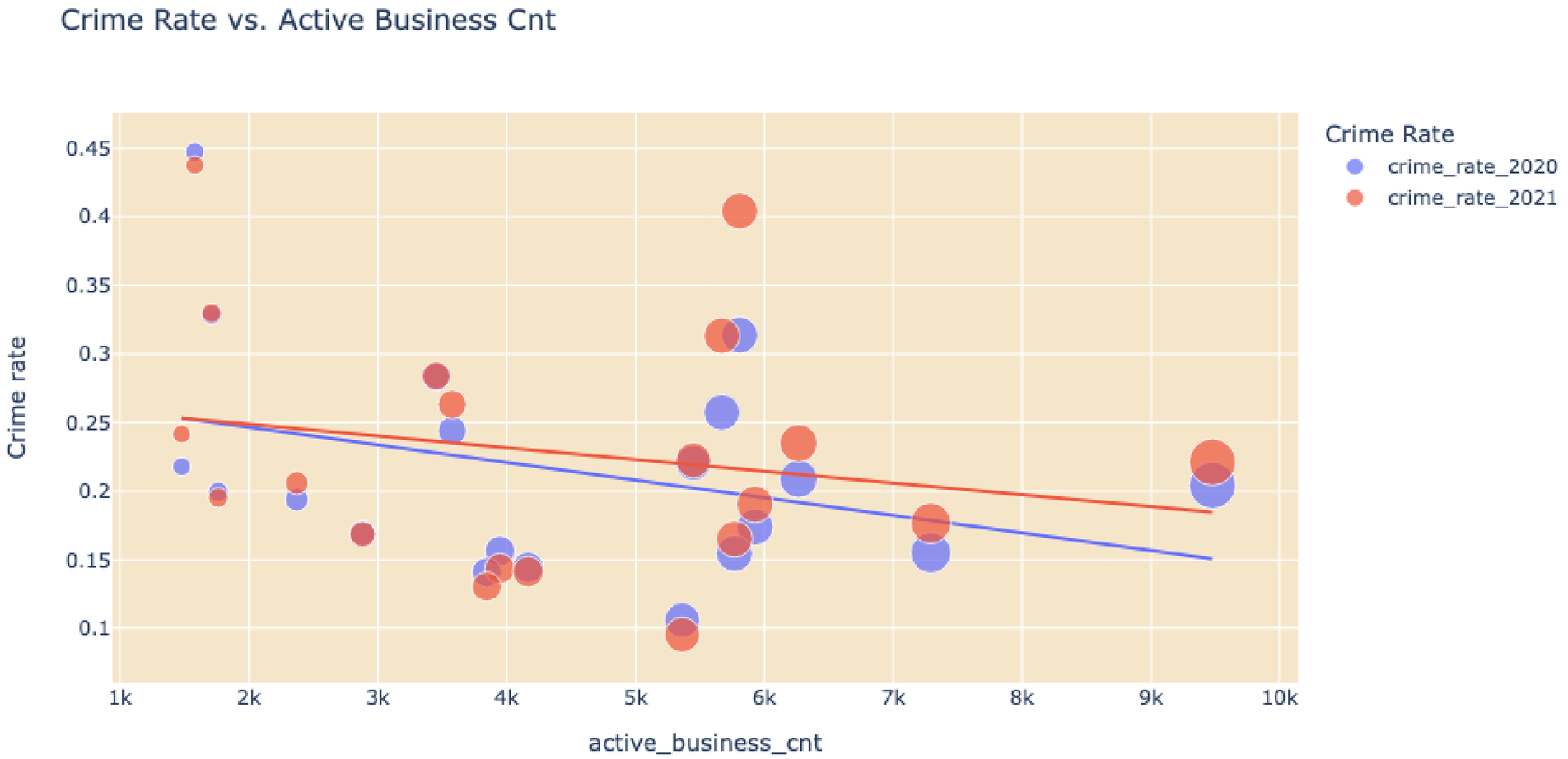


Crime Cnt Among Different Genders

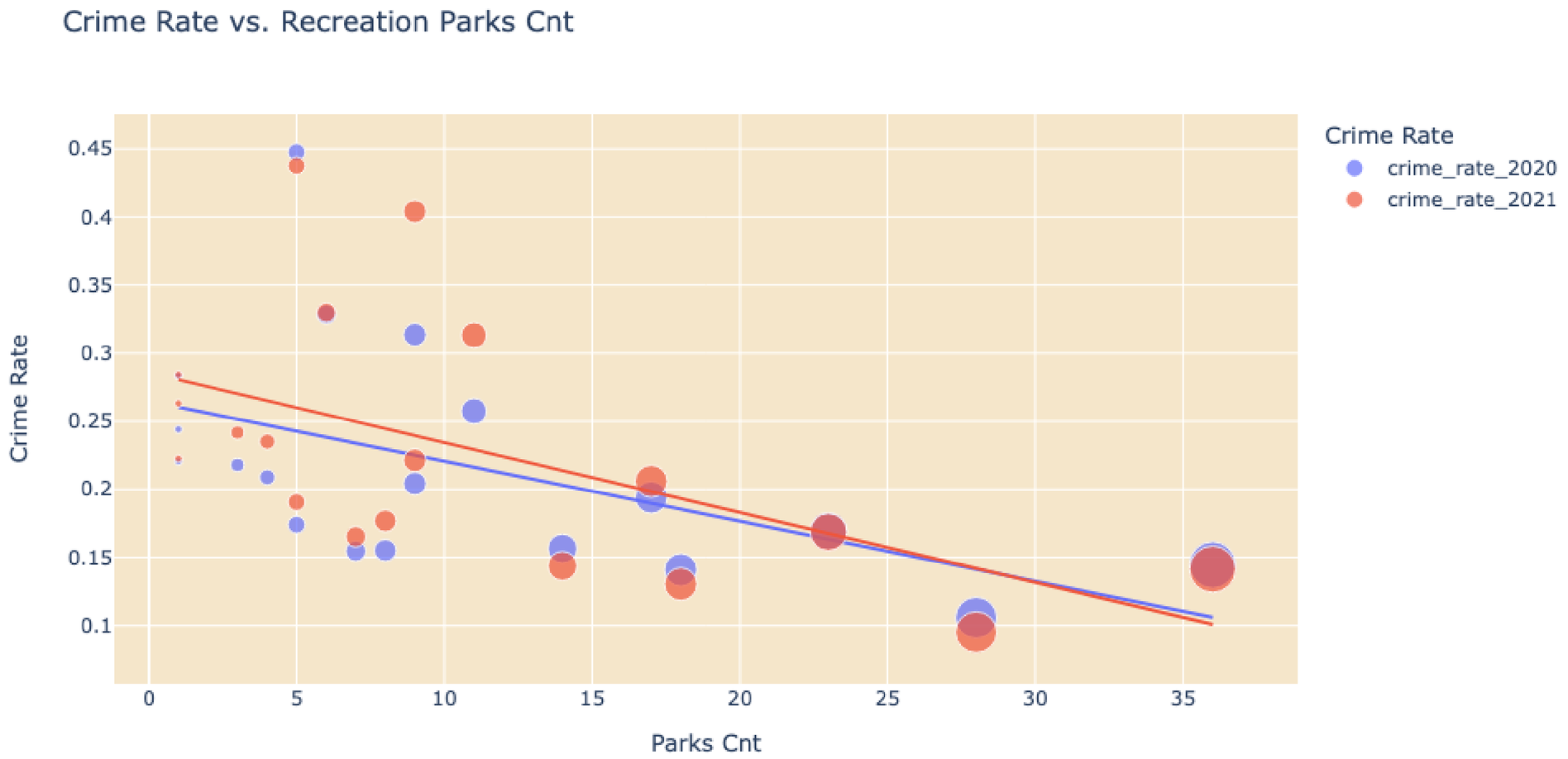


OTHER FACTORS

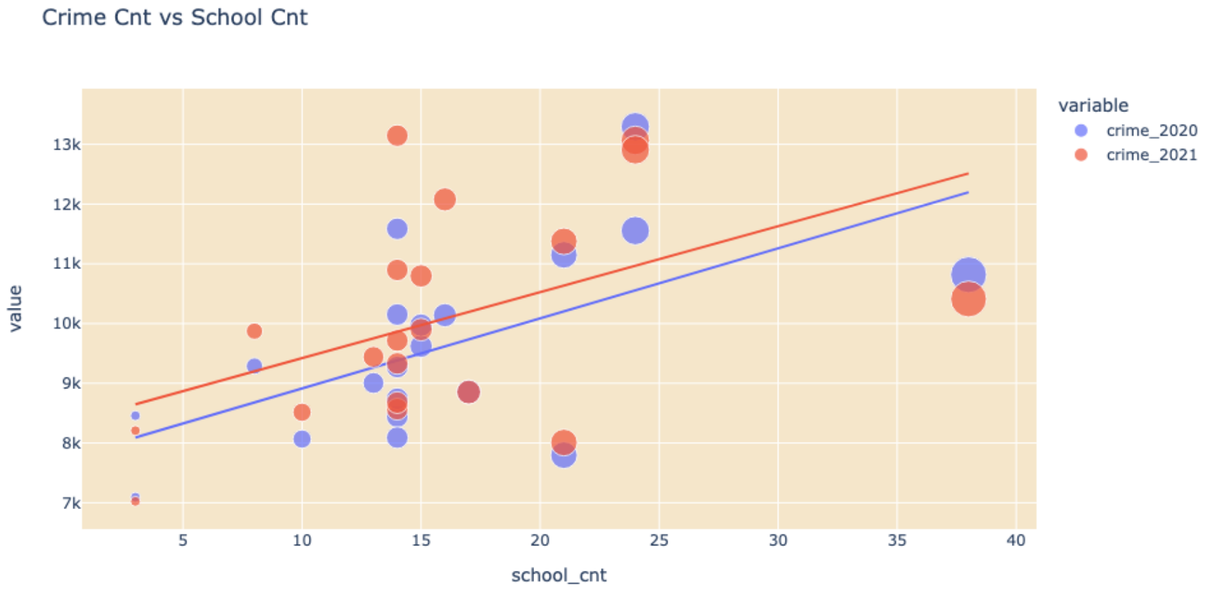
CRIME RATE VS. ACTIVE BUSINESS CNT

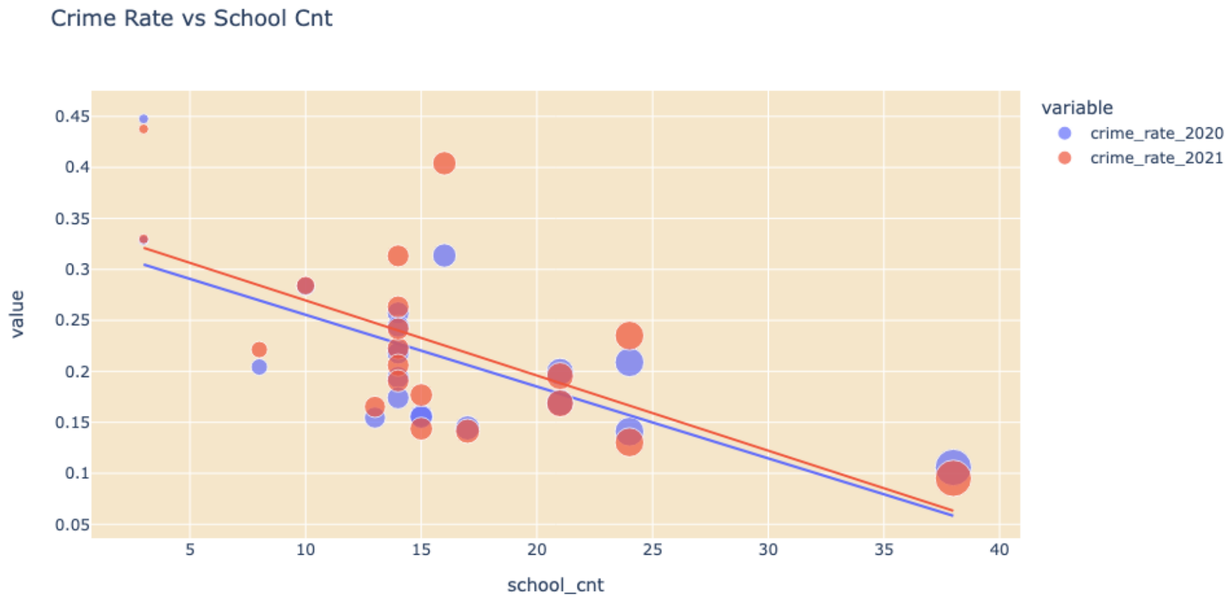


CRIME RATE VS. RECREATION PARKS CNT

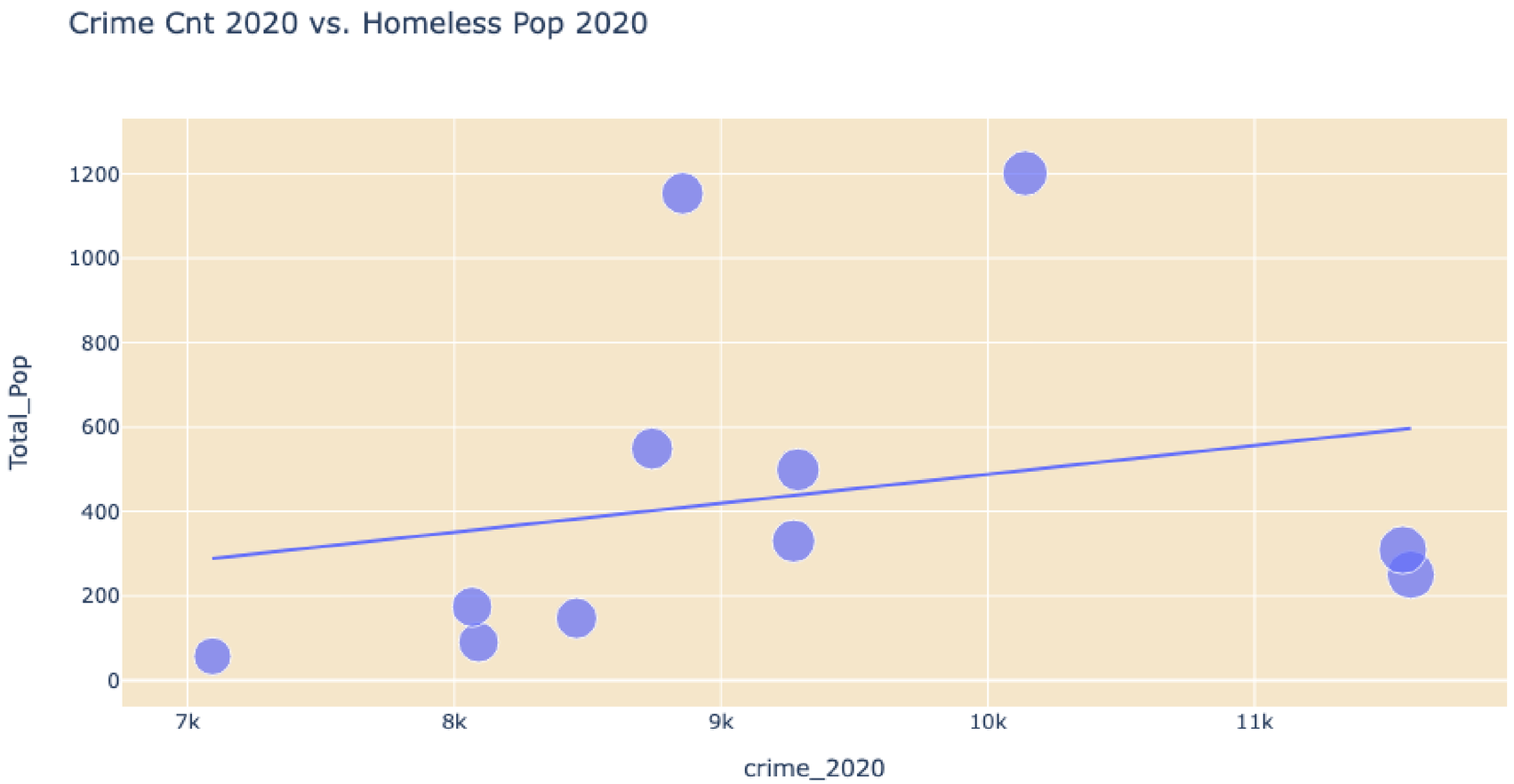


CRIME CNT / RATE VS. SCHOOL CNT

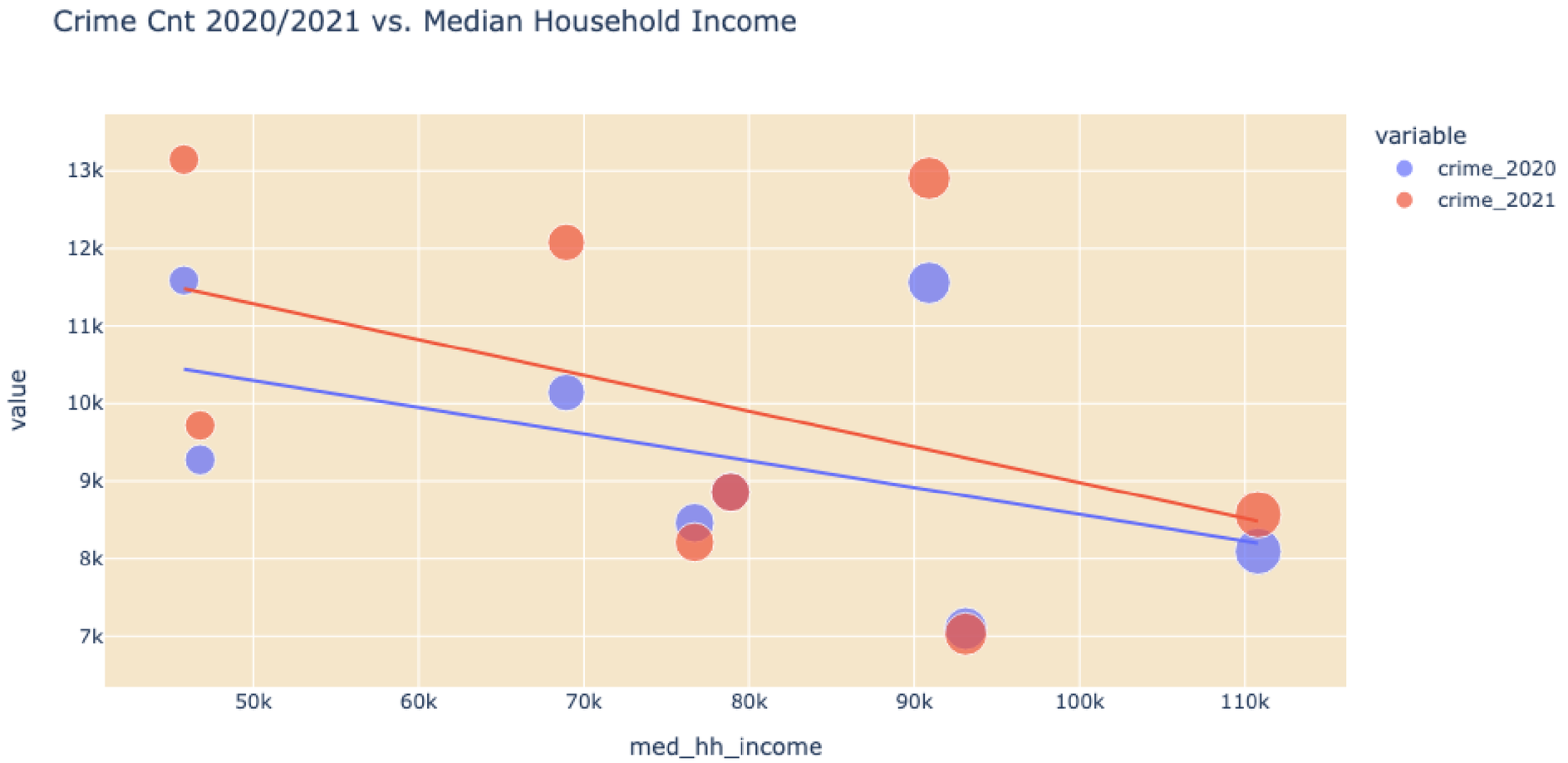




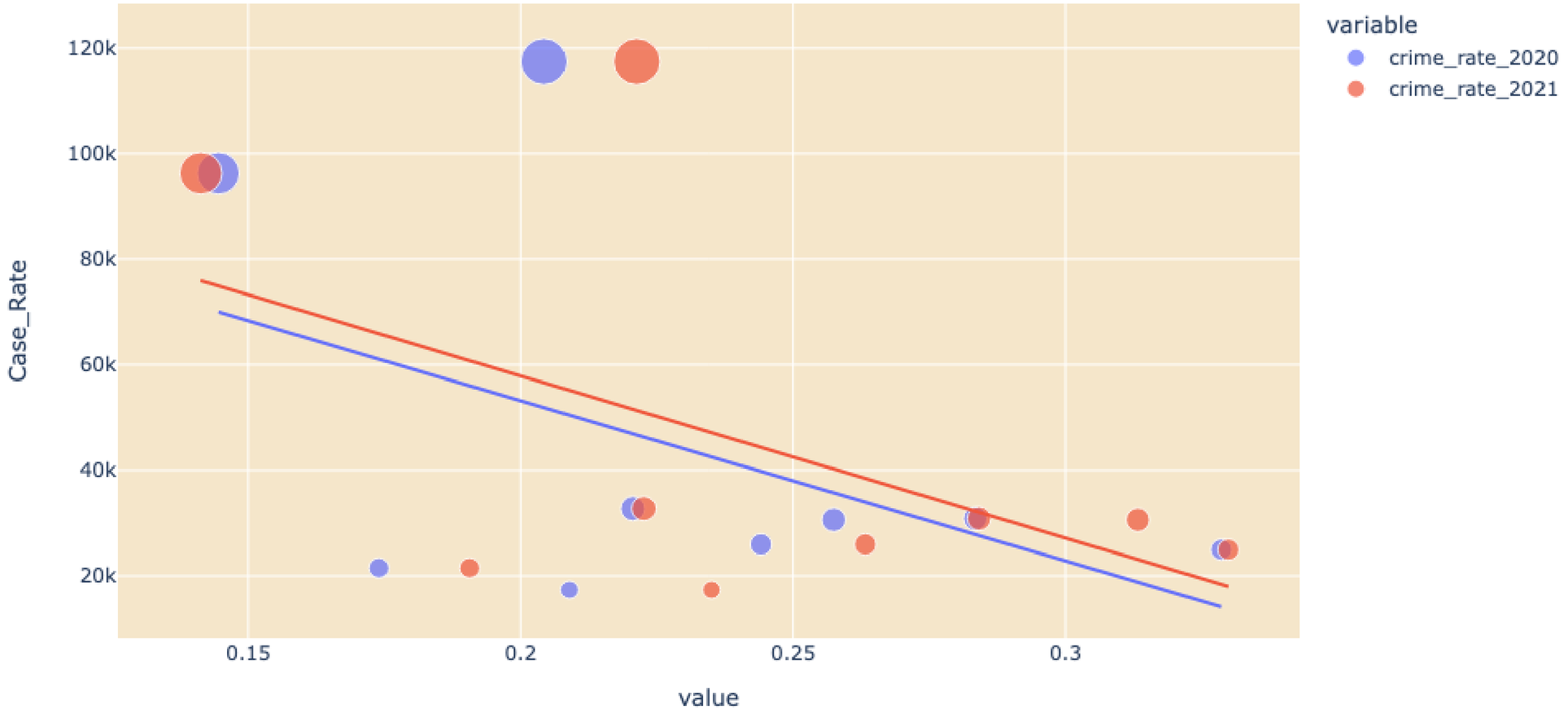
CRIME CNT 2020 VS. HOMELESS POP 2020



CRIME CNT VS. MEDIAN HH INCOME



CRIME RATE VS. COVID CASE RATE



THANK YOU