Renters' Lament

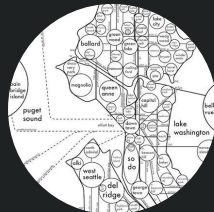## Rachel Squillace, Data Scientist

Is rent too high?

Approach

- Compiled data
- Compared rent and wages
- Created an interactive map

Data

Employment Security Department

- Annual QCEW Reports for King County
- Assume representation of full time Seattle employee

Data

Zillow

- Monthly median rent by zip code
- Missing data

Data

King County Property Sales

- Residential/condo sales for 1-4 beds
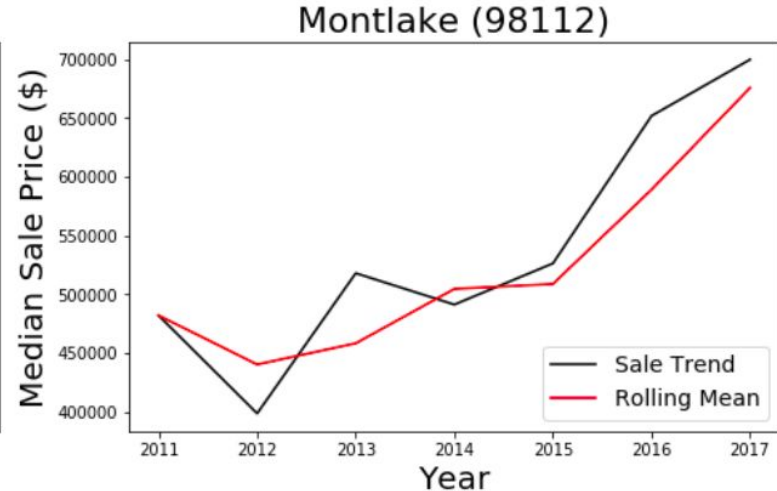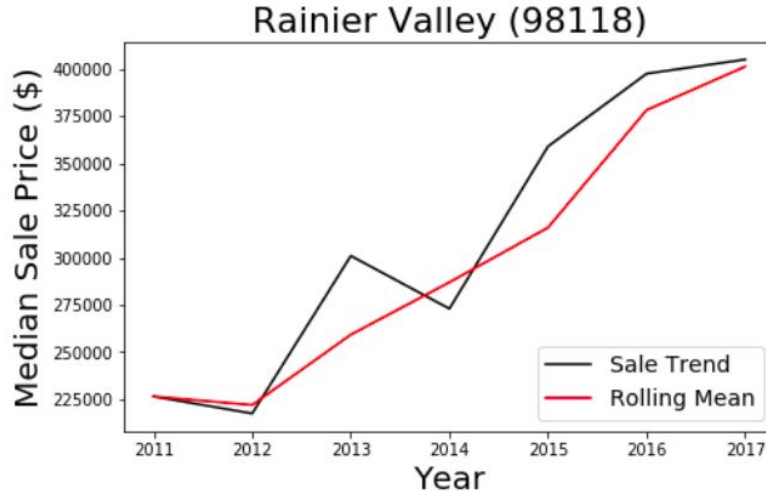- Assume rent trends mimic sale trends

Affordable Rent

Monthly income > 3x rent

Data Extrapolation
Smoothed :: Normalized :: Interpolated
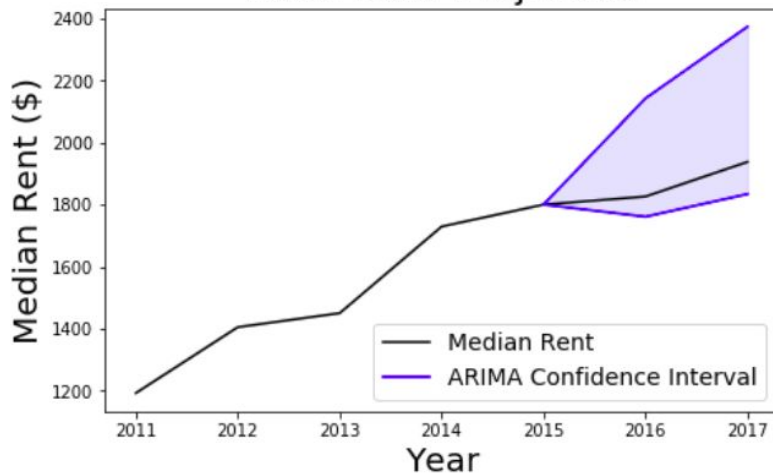

Volatile Sale Trends

ARIMA Forecasts

Central District (98122) ARIMA Forecasts
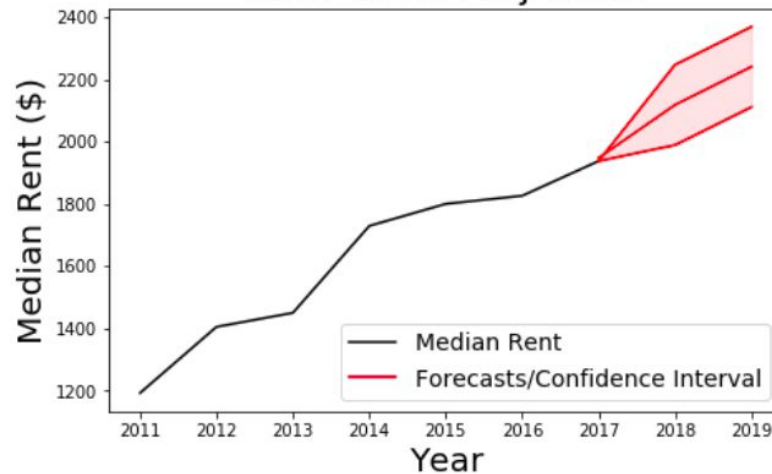
Visualization

- Built with Brython!
- Try it yourself at:

 renterslament.online

Affordable
Not Affordable
Rent Unknown

Number of Bedrooms

1
2

201

Educational services   ▼   1   ▼
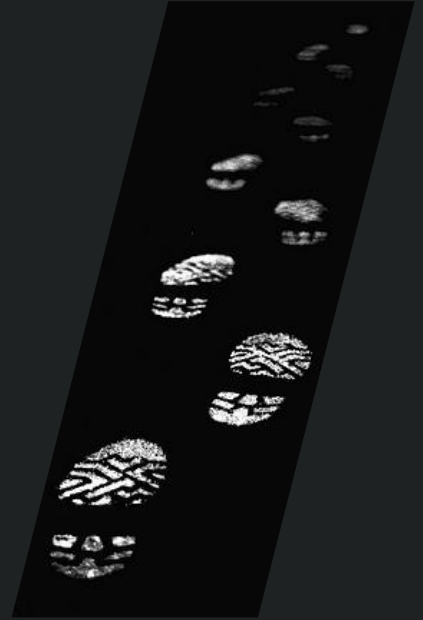
Next Steps

- Use incremental data for seasonal ARIMA forecasts
- Display affordability gradient
- Aesthetically enhance website

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Thank you for your time!