Airbnb Price Fluctuation

Major Events and Holidays in San Francisco

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Introduction

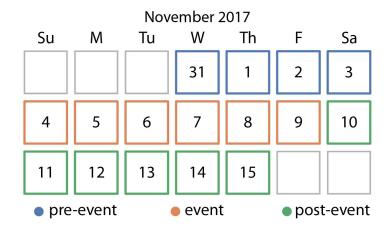
- Goal
 - Find trends in Airbnb pricing in the 12 months leading up to major events or holidays
 - o E.g. Fluctuation in Christmas listing prices between Jan and Dec 2017
- Data source: insideairbnb.com
 - 'Listing': listing location and information
 - o 'Calendar': next 12 months of listing prices from scrape date
- Major Events/Holidays
 - Attendees travel to attend or celebrate an event
 - Attendees capture a variety of populations

Events (2017)

Public Holidays	Special Interest
Fourth of July	Pride Parade
Christmas	Outside Lands
New Year	Dreamforce

Dreamforce: Salesforce Conference

- Event Period: November 6 9
- Observed Dates: October 31 November 15
- 171,000+ registered attendees from 91 countries
- Attendees: either better-off or sponsored by companies to attend

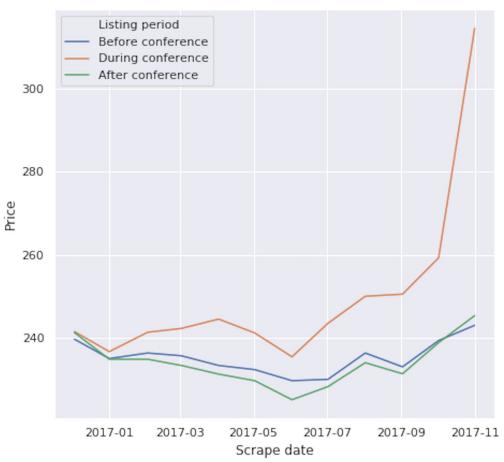


Pre-event: October 31 - November 3

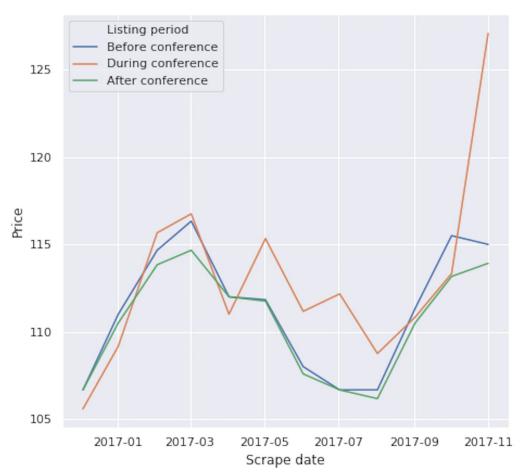
Event: November 4 - 9

Post-event: November 10 - 15

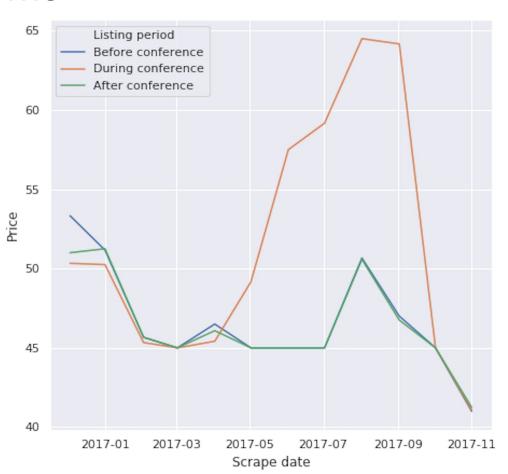
Entire Home/Apartments



Private Rooms

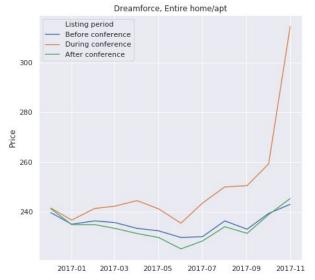


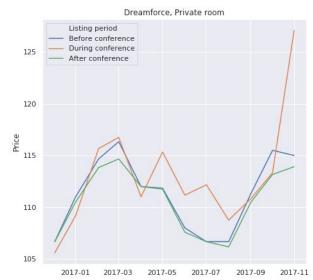
Shared Rooms

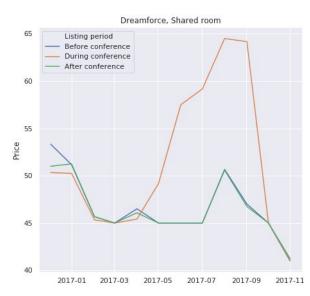


Conclusion

- Entire homes/apartments and private rooms:
 - Airbnb price is correlated to proximity to large events (e.g. Dreamforce)
- Shared rooms:
 - Price trend is inverted, as prices spike early and fall closer to the event







Next steps

- Analysis across different events
 - o Pride Parade, July 4th, Outside Lands, Christmas/New Years
- Price differences across neighborhoods
 - Are some neighborhoods more "desirable" than others?
- Do prices follow an annual trend independent of events?