

Analytics Insights

Luba Gloukhova for Slalom

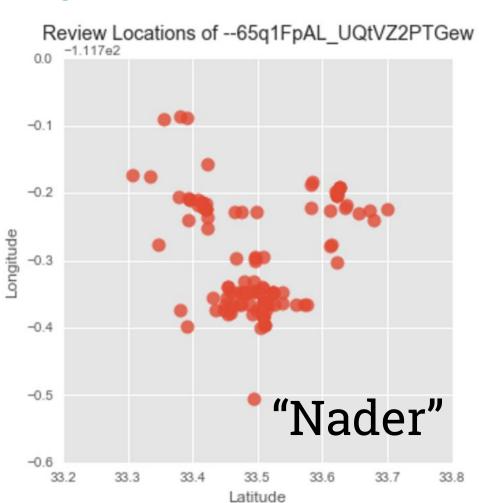
66

Do users **review** businesses that are **more expensive** when they are **away from home**?

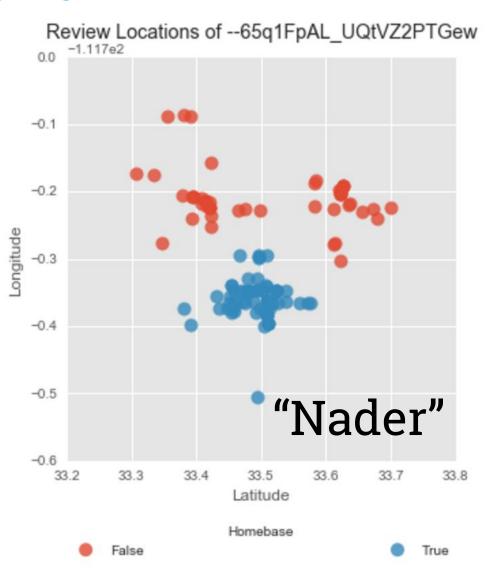
Identifying a User's "Home"

- 1. Subset to Users with > 100 reviews
- 2. Cluster a user's reviews based on Lat/Long
- 3. Assign "home" to cluster with most reviews
- 4. All other Reviews = "away"

Identifying a User's "Home"

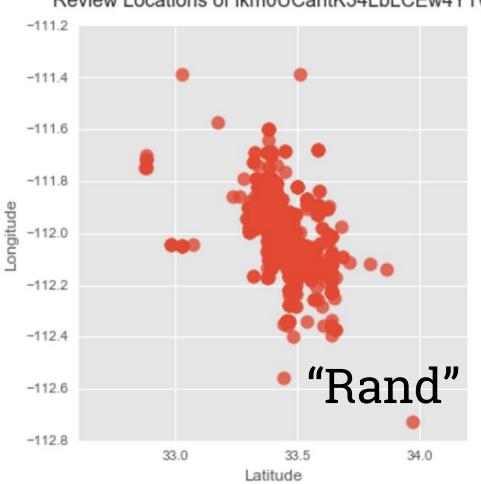


Identifying a User's "Home"



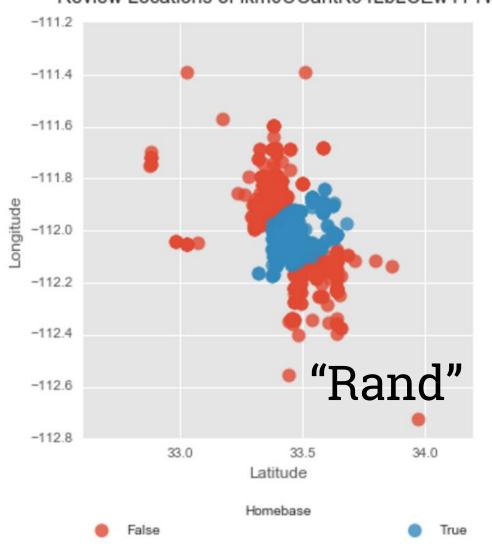
How to identify "Home"





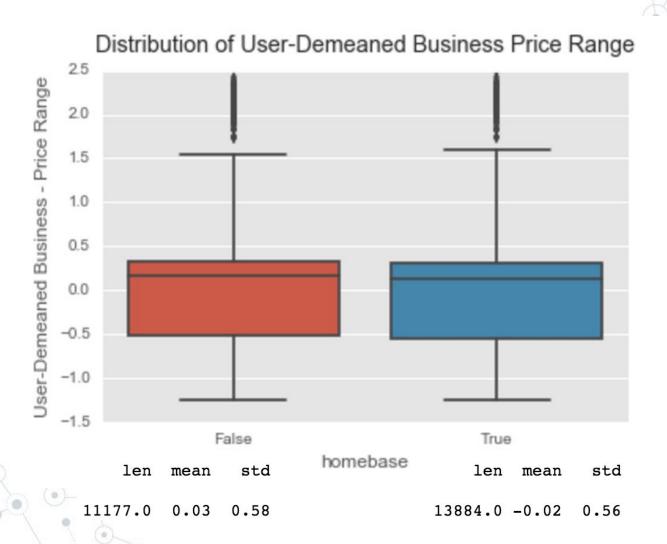
How to identify "Home"

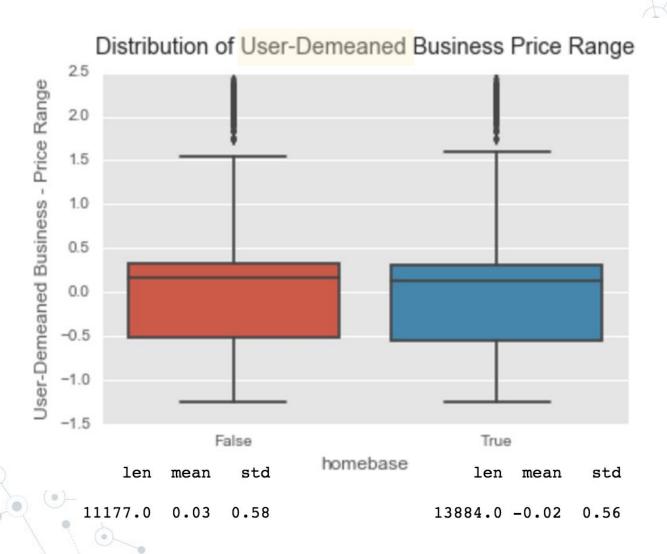














Ho: equal pop. means

Ha: unequal pop. means

p-value of 0.000000034 indicates that **our data** provides enough evidence to reject the null hypothesis for the **entire population**.

99% confidence interval

for the difference in means (home-away)

[-0.062, -0.024]



Yes!

Users review more expensive venues if they are further away

As a business owner:

- rethink local marketing
 - target travelers
 - partner accordingly
 - cater to non-locals





- The Data:
 - How do we define Population?
 - Data Sample: representative?
 - Data Subset: Users w/ > 100 reviews

- Olustering
 - K = 3...
 - o distance metric = Euclidean...
 - Can we do better with a Kernel?
 - Other ways to identify "home"?

- Continuous distance
- Geographic considerations
- Other factors:
 - Business Type
 - Region Type
 - Time of Day
 - Day of Week

- Can we extend this geographically
 - Business/Pleasure travel
 - Partner with Airlines, Accommodations
- Is this indicative of
 - user preferences
 - willingness to spend

Thank You!

Any questions?

http://bit.ly/29fWXgF

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