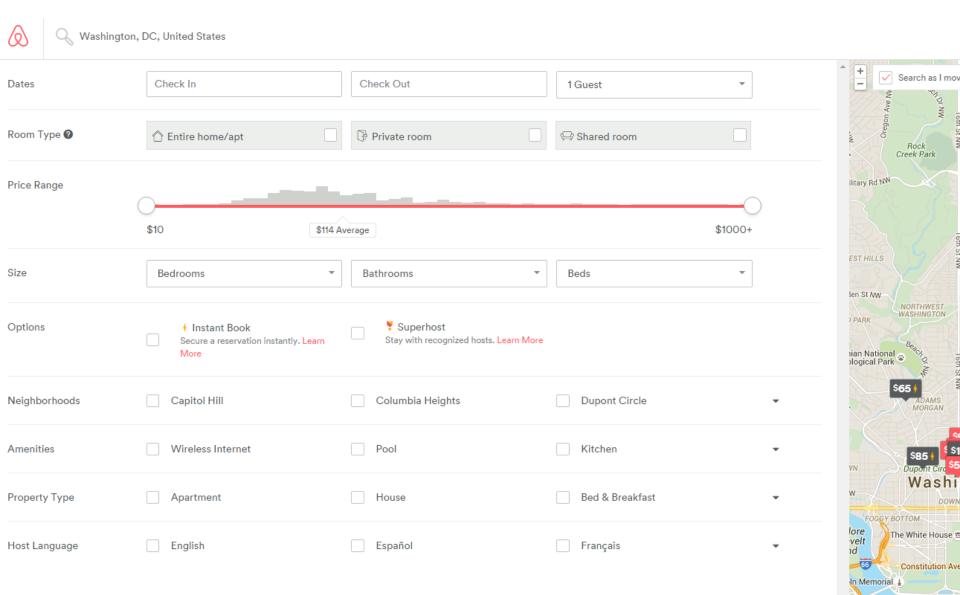
AirBnB Listings Reconsidered by Reputation and Description

Talha Oz

December 2015 Web-based GIS by Dr. Pfoser George Mason University

Background - AirBnB



Objective/Contributions

Filter listings by review scores

Accuracy
Communication
Cleanliness



Location Check In Value

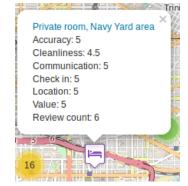


Search in listing descriptions



Visualize & communicate effectively





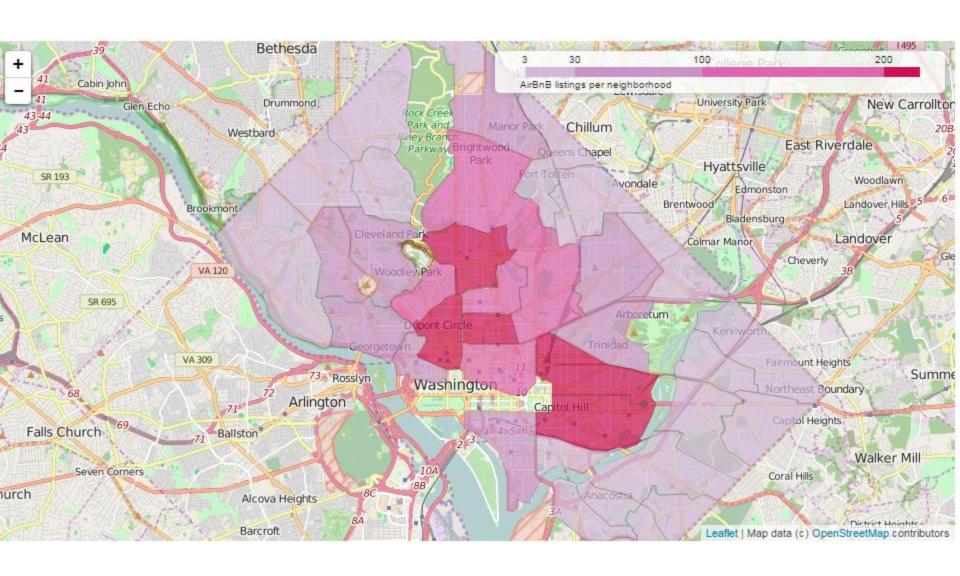
Data 1 - Descriptive Stats

• 3723 (2846) x 91

Name	Туре
name	String
listing_url	String
room_type	String
cleanliness	Integer
accuracy	Integer
communication	Integer
checkin	Integer
location	Integer
value	Integer
number_of_reviews	Integer
the_geom	Point

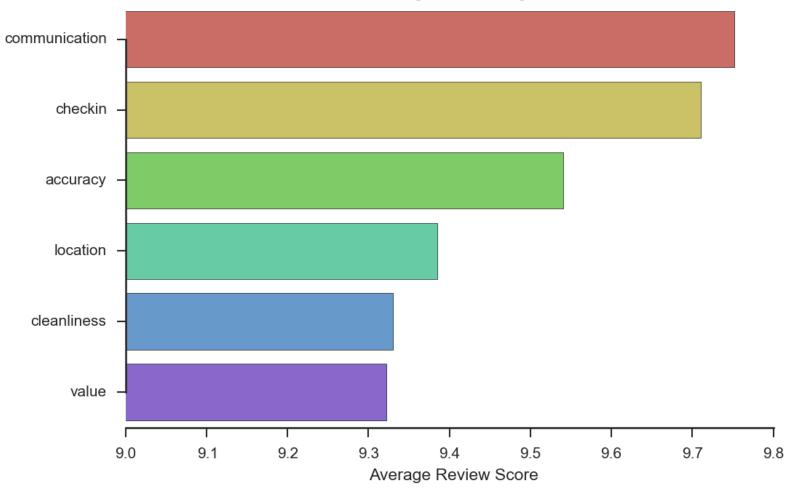
neighborhood	count
Columbia Heights, Mt. Pleasant, Pleasant Plain	351
Dupont Circle, Connecticut Avenue/K Street	285
Capitol Hill, Lincoln Park	242
Shaw, Logan Circle	239
Union Station, Stanton Park, Kingman Park	234
Edgewood, Bloomingdale, Truxton Circle, Eckington	194
Kalorama Heights, Adams Morgan, Lanier Heights	183
Brightwood Park, Crestwood, Petworth	140
Downtown, Chinatown, Penn Quarters, Mount Vern	135
Howard University, Le Droit Park, Cardozo/Shaw	114
West End, Foggy Bottom, GWU	95
Georgetown, Burleith/Hillandale	87

Data 2 – Listing Density Map



Data 3 – Review Scores

AirBnB Listings in Washington, D.C.

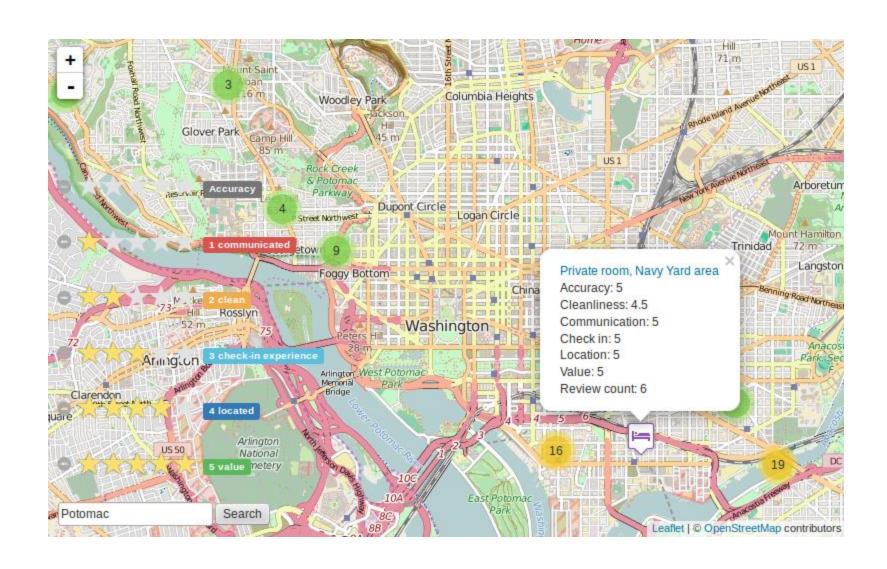


Design

- Back-end
 - PostgreSQL + PostGIS
 - GeoServer + WFS
- Front-end
 - Leaflet + geoJson, Icon, markerClusterGroup
 - JQuery + ajax
 - Bootstrap + Star Rating Plugin
 - Map Icons Collection +

Related scripts will be shown during the demo

Control Elements & Visualization



Wrap-up

Filter listings by review scores

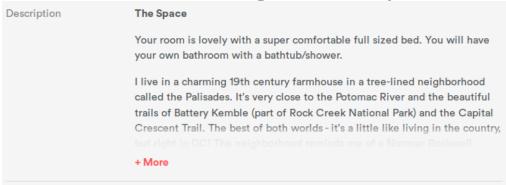
Accuracy
Communication
Cleanliness



Location Check In Value

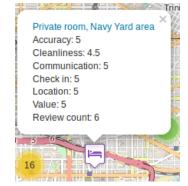


Search in listing descriptions



Visualize & communicate effectively





Demo

 http://nbviewer.ipython.org/github/oztalha/airbnb-ratingsgeo-web-app/blob/master/airbnb-ratings-geo-web-app.ipynb

Thank you !!!

Questions ???

Talha Oz - @tozCSS