

Getaway Factor:

Where you're from affects where you go

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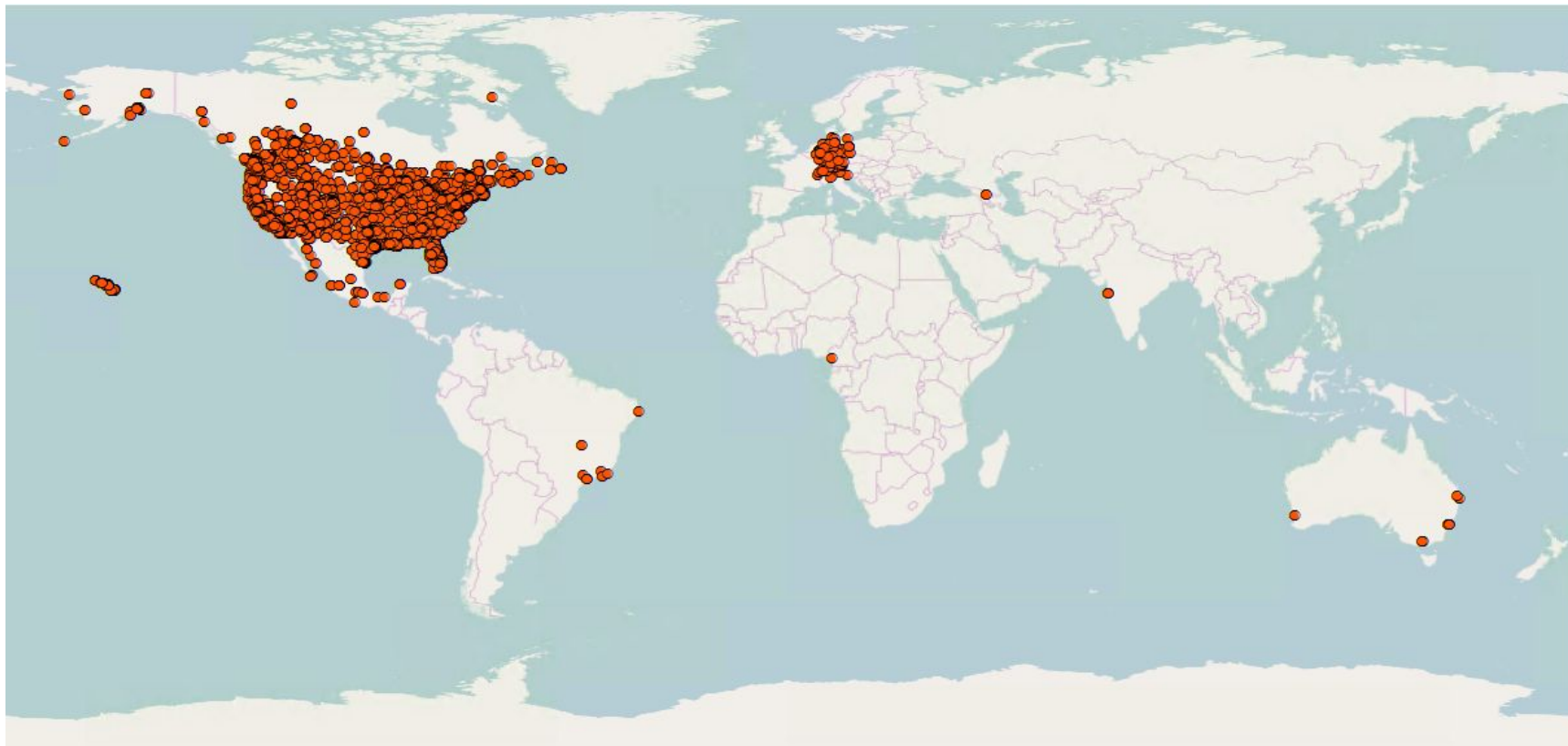
Minh Pham

Given where people are,
where do they want to go?

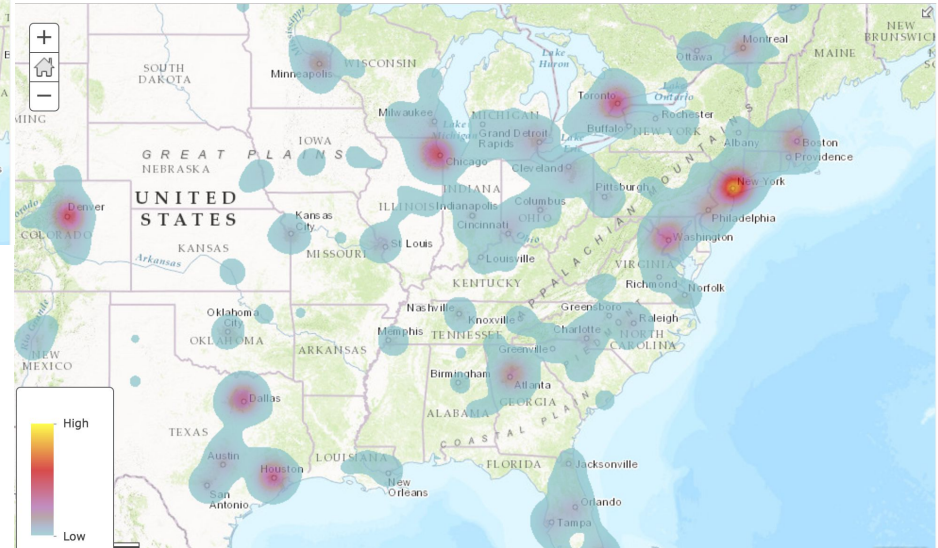
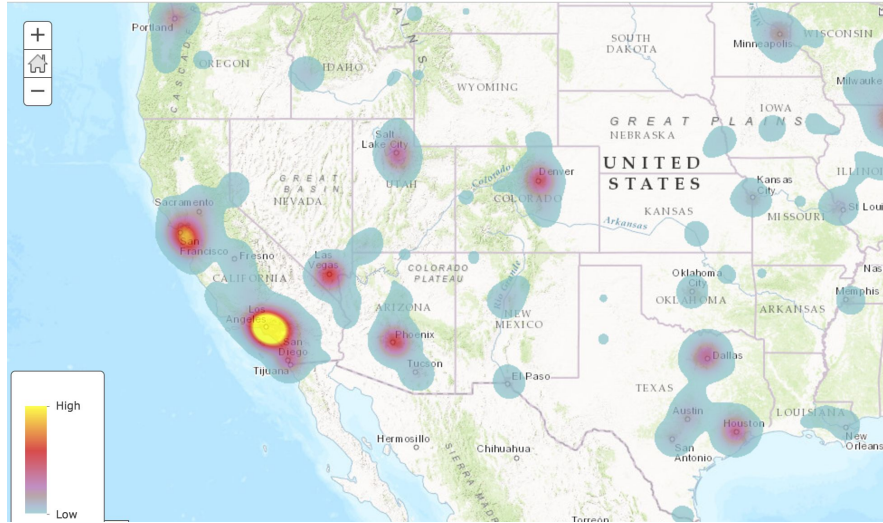
Top Destinations

1. Las Vegas, Nevada
2. New York, New York
3. San Francisco, California
4. Orlando, Florida
5. Chicago, Illinois

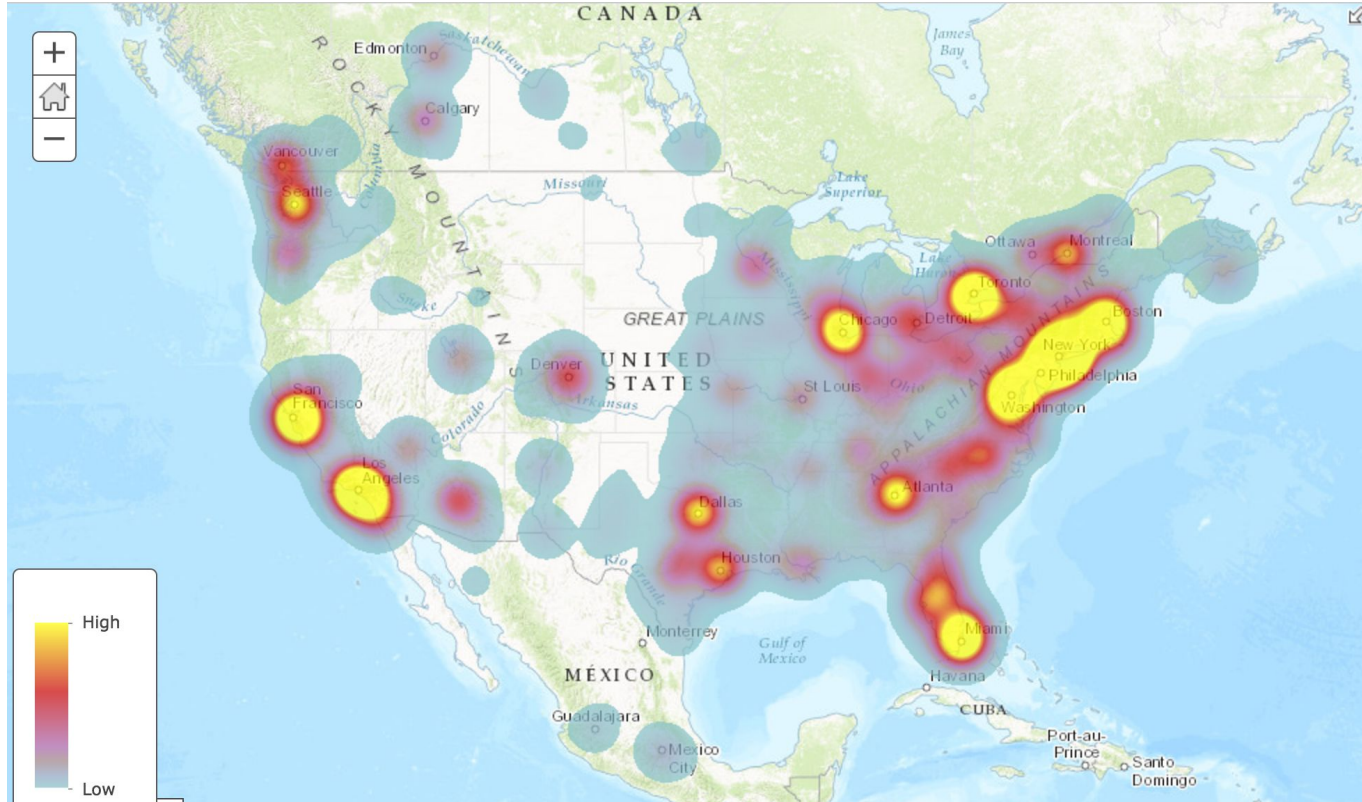
Las Vegas



Las Vegas -- U.S.A. Focus



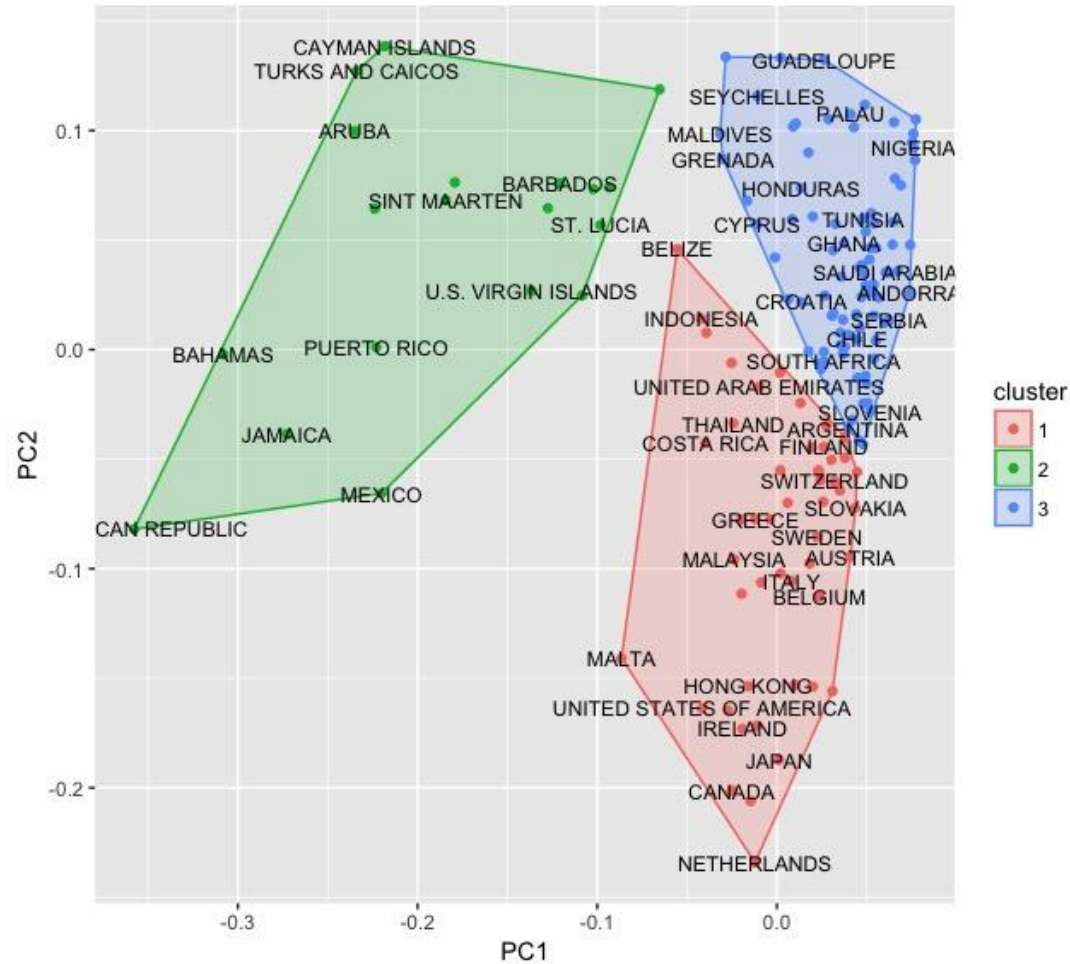
New York -- U.S.A. Focus



popular_(feature) columns characterize a location

- 139 feature vectors, describe how users view location:
 - good for hiking, great volcanos, lots of beaches
- Similar vectors -> similar locations
- More generally, popular features describe the location.
- Use these vectors to compare locations

Clusters of Countries - PCA

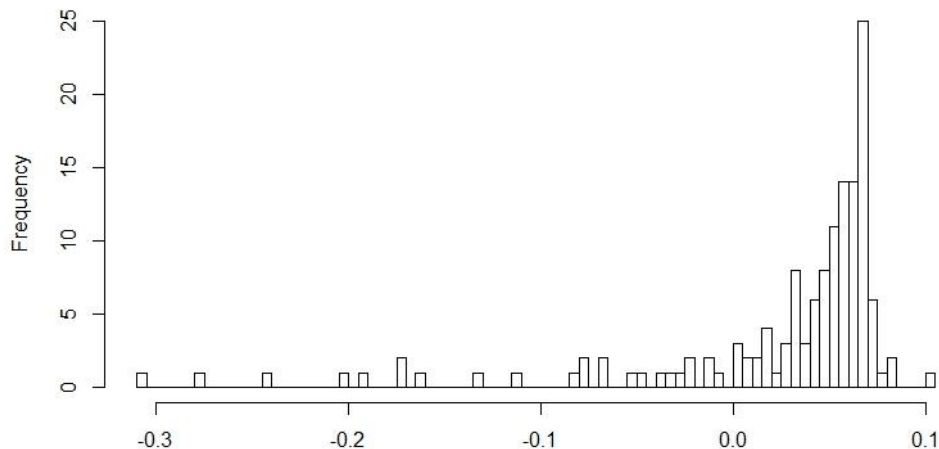


Package
bookers want to
get away

	Average Getaway Factor
No Package	0.001442
Booked Package	0.002992

People tend to travel to places with better popular features

Histogram of coef

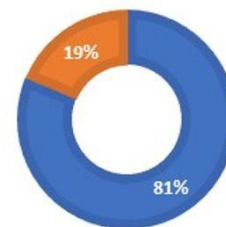


Coefficient for each categorical quality of the origin (X) VS each categorical quality of the destination (Y)

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> coef_2
[1] 0.0440330330 0.0641619229 0.0800377478 0.0328870889 0.0036006156 -0.1857818108 0.0625272983
[8] 0.0641854245 -0.0817376237 0.0466685296 0.0268793603 0.0776363756 0.0203174205 -0.1574280146
[15] -0.1409432772 -0.0229843535 0.0751538336 -0.0286278494 0.0830219445 0.0839698950 0.0774891735
[22] 0.0413380171 0.0636589907 0.0655745857 -0.2066332695 0.0218262079 0.0726771655 0.0813630347
[29] 0.0774257343 0.0383100674 0.0047778125 0.0515146080 -0.3465264121 0.0697419304 0.0639395550
[36] -0.0092666584 0.0721715016 -0.1560696256 0.0212975032 0.0498524998 0.0638660736 0.0671631346
[43] -0.2521369328 0.0878263615 0.0801876604 0.0621215611 0.0001187900 0.0783092382 0.0318580135
[50] 0.0451139620 0.0582193319 -0.0463960650 0.0607984146 0.0774258594 0.0826085079 0.0792451775
[57] 0.0798832592 0.0705813580 0.0771030107 -0.0094185486 0.0483569695 0.0712613987 0.0668717276
[64] 0.0771285127 0.0765649842 -0.0555981306 -0.0869031889 0.0567837118 0.0146996153 0.0528123166
[71] 0.0205882528 0.0038286684 0.0459138494 0.0818420155 0.0728477209 -0.0431004387 0.0392555080
[78] 0.0768160800 0.0685060301 -0.0102435623 0.0785015833 0.0779829193 -0.0763266178 0.0776613794
[85] -0.3216781192 0.0964514201 0.0743011674 0.0331891508 0.0757126293 0.0806385183 0.0685670354
[92] 0.0722514418 0.0502316931 0.0512173815 -0.0220505160 0.0541696828 0.0604979286 0.0741713883
[99] 0.0707234841 -0.2232558038 0.0302230636 0.0835481740 0.0716494915 0.0264379345 0.0773465026
[106] 0.0616346940 0.0651058889 0.0777044458 0.0758357399 0.0786679801 0.0782058986 0.0724211921
[113] -0.0109016476 -0.0766494241 0.0776242098 0.0520384607 0.0731211168 0.0368598387 0.0546466225
[120] 0.0354009412 0.0753532131 -0.0654279537 0.0003832492 -0.0531825243 0.0527292113 0.0482727567
[127] 0.0771129749 0.0476883044 0.0094535300 0.0657882208 -0.2411095461 0.0757570744 0.0612714643
[134] 0.0800469371 0.0456075746 0.0705147350 0.0683213246 0.0657659649 0.0597384559
> sum(coef_2>0)/length(coef_2)
[1] 0.8129496
```

THE PROPORTION BETWEEN VALUES OF COEFFICIENTS

■ coefficient > 0 ■ coefficient < 0



Key Takeaways

- Getaway factor is twice as high if you bought a package
- More often than not people travel to places that are better than their current location
- The larger the difference between someone's starting point and destination, the more likely they are to stay at a higher rated, branded hotel