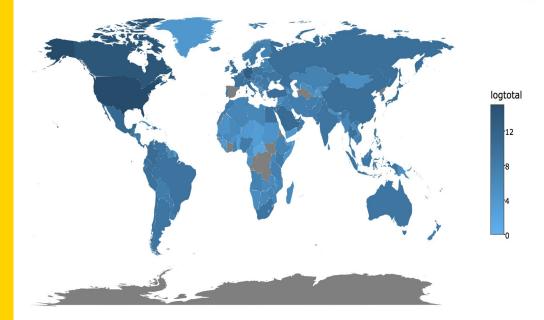
DataFest 2017

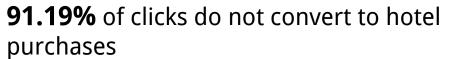
Smith College

Team: Normally Distributed

April 2nd, 2017

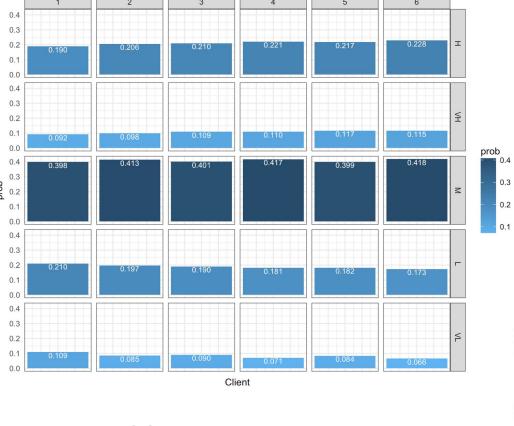


Customer Distribution of Expedia



85% of site visitors click on only one hotel and leave the site



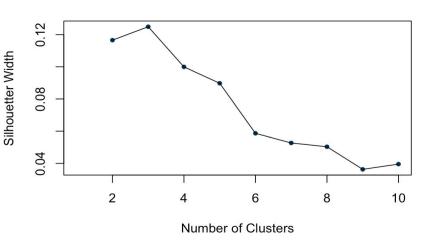


6 types of Customers' choice about different price range of hotel

Most popular months for hotel booking: **June - August**

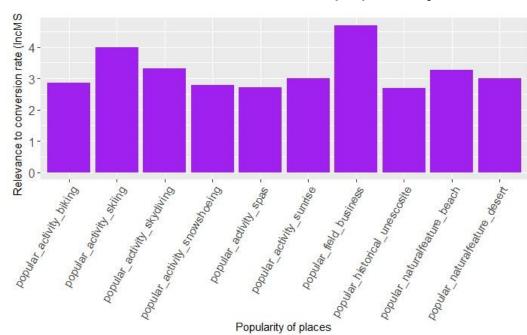
Most popular time for hotel booking: **10am-1pm**

<u>Cluster Analysis</u>: three groups of customers with different preferences

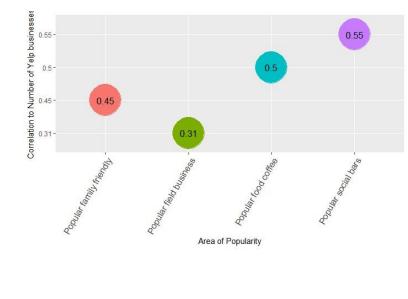


What drives popularity and purchase rate of a city?

Random forest model to predict purchase rate of a destination based on its popularity score



Correlation between the number of Yelp businesses and popularity score



Root MSE: 0.018. Data range from 0-0.25

