New users on Airbnb can book a place to stay in 34,000+ cities across 190+ countries. By accurately predicting where a new user will book their first travel experience, Airbnb can share more personalized content with their community, decrease the average time to first booking, and better forecast demand.

There are 12 possible outcomes of the destination country: **US**, **FR**, **CA**, **GB**, **ES**, **IT**, **PT**, **NL**, **DE**, **AU**, **NDF** (no destination found), and **other**. Please note that **NDF** is different from **other** because **other** means there was a booking, but is to a country not included in the list, while **NDF** means there wasn't a booking.

The training and test sets are split by dates. In the test set, you will predict all the new users with first activities after 7/1/2014. In the sessions dataset, the data only dates back to 1/1/2014, while the users dataset dates back to 2010.

the Gradient Boosting algorithm seems to work best for this problem.