NA Emotion Memo

Johnson

9/18/2019

Description

33.5% of all second observations have an NA emotion (the user was out of the frame). This memo double checks if there is are any important correlations associated with the NAs. This includes an analysis of user specific NAs (are some user out of the frame more than others) and Value scores (do users move out of the frame when they are feeling more emotions?)

User analysis

Users stats by share of all seconds that have an na emotion score
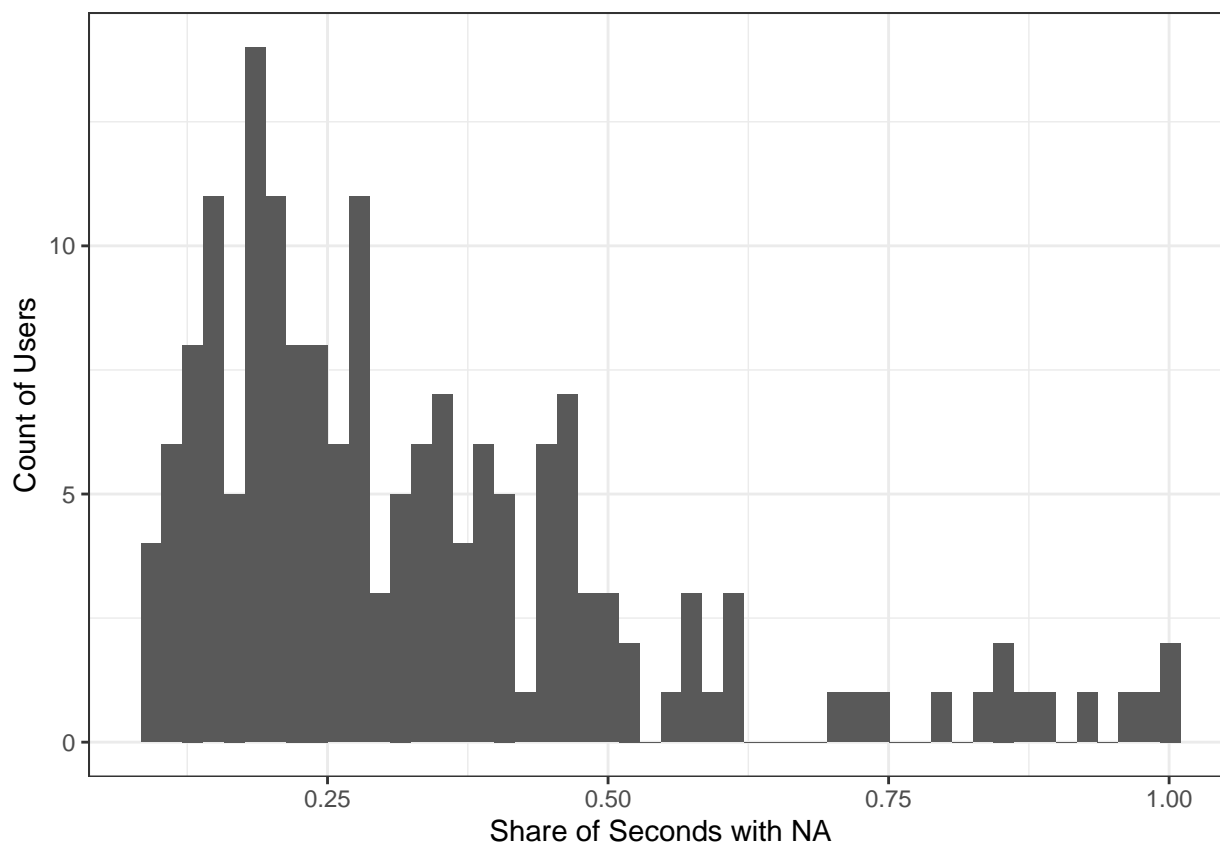
Event Analysis

Possible that users move during certain events. Here we focus on marker type.

Table 1: Event (Marker Type) by share na seconds

MarkerType	Share NA
final payment	0.700
start	0.460
transition	0.328
info	0.296
auction	0.283
camera start	0.264

Auction Type Analysis

Table 2: Auction Type by share na seconds

AuctionType	Share NA
first_price	0.357
dutch	0.301

Auction and Event Analysis

Table 3: Auction Type and Marker Type by share na seconds

MarkerType	first_price	dutch	diff
transition	0.355	0.249	0.106
info	0.336	0.254	0.082
camera start	0.285	0.210	0.075
final payment	0.714	0.654	0.060
auction	0.310	0.254	0.056
start	0.438	0.489	-0.051

Some explaination: In the first price auction the *transition* period is simply waiting for others/other groups to finish and submit their bid. The winner is not announced until the *info* period. In Dutch, the *transition* period is again waiting for other groups to finish but the winner should know if they have won the auction. Therefore, the relatively higher na results in the *first price* auction relative to *dutch* reflect engagment levels.

Examine NA by type

This data comes from dt_scores.

First examine the relationship between share_na and share_na_fit_failed. Does not look very convincing.