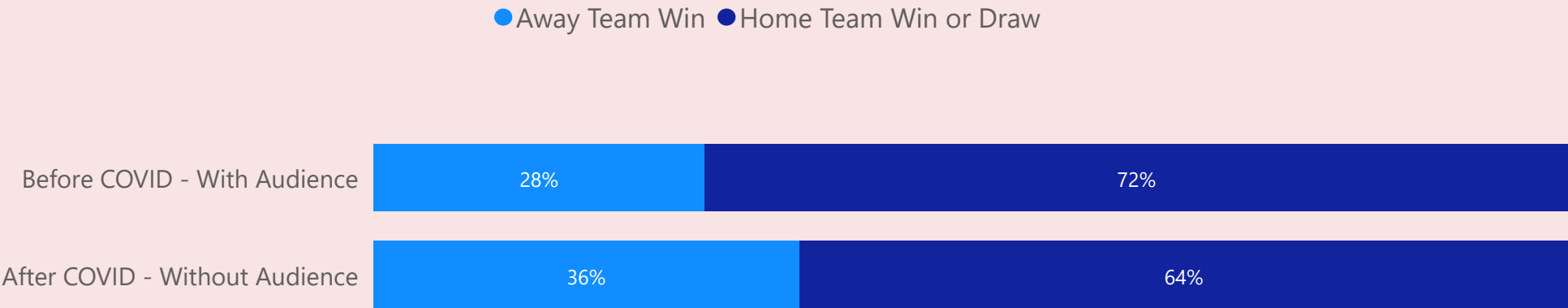


Has the No Audience Period Amid the COVID-19 Pandemic Eroded the Home Advantage in the English Premier League

Total Number of Matches before COVID-19	Total Number of Matches after COVID-19	Last Match Day Included in the Analysis	P-value of the Chi-Squared Test
10,794	247	Wednesday, December 30, 2020	0.6%

English Premier League - Percentage of Away Wins vs. Home Wins and Draws



Null hypothesis of the chi-squared test (H0): the two variables are independent (in this case the variables are *share of away wins* and *pre and post COVID period*)

Alternative hypothesis of the chi-squared test (H1): the two variables are not independent

Under the chi-squared p-value of 0.006 we can reject the null hypothesis which states that there is no statistically significant relationship between the share of away wins in the English Premier League in the pre-COVID vs. post-COVID period at a 99% confidence level. Hence we can conclude that the COVID pandemic and the return of football without audience has a statistically significant impact on the share of away wins and thus the home advantage is being eroded by the lack of audience at the stadiums.

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Data Source: <http://www.football-data.co.uk/englandm.php>
**All matches from the beginning of the English Premier League in 1992 until 30 December 2020 are included in the analysis*