CASE STUDY 7: MLB PITCHERS' TIME TO THE PLATE

**Description**

MLB has enacted several changes this season to speed up the pace of the game and increase viewership (which has been decreasing over time, particularly among younger viewers). One such change is having a pitch timer. Pitchers who take more than 15s to begin their pitch delivery are automatically charged a ball, and batters who aren't fully set before 8s of the end of this 15s interval are automatically charged a strike.

**Primary question(s) of interest:** Based on the time to the plate statistics from last season, how many pitchers need to make adjustments this season to not be negatively impacted by the pitch clock? Do pitchers tend to be faster or slower to the plate with runners on base?

Dr. Gore's hint: I'd like you to wrangle the data such that On base status (bases empty or runners on) is a variable that you ultimately put into your regression model. The gather command should help.

**Data source:** <https://baseballsavant.mlb.com/leaderboard/pitch-tempo>

**Dataset:** MLB pitch\_tempo.csv