Baby Boom

# Objective

Determine whether a baby boom follows disasters, power outages, or sporting victories.

# Methodology

* Collect data on births per county per month
* Collect list of disasters, power outages, and sporting victories and their associated counties
* Collect data on population of county per month
* Create Visualizations:
  + Time series
    - Number of babies born per month per county on one axis
    - Population of county on other axis
    - Babies divided by population as next figure for a normalized picture of how many babies are born in spring, summer, fall, and winter months
  + Cluttered time series
    - Same as 3rd bullet point above but where only 12 months are available. Each line represents a year. Hopefully they line up.
* Statistical significance
  + One tail T-test evaluating the
    - number of babies born 9 months after event vs.
    - number of babies born for all other 14 years in that month
* Results
  + Dashboard
  + Pass all events into function and create table of estimated number of additional babies and whether or not the additional number is significant