Requirements

1. Both R object models output from **topic\_model\_training.R**
   1. ***topic\_model.RDS***
   2. ***randomForest\_model.RDS***
2. new reports in a csv file
   1. the reports only need 2 columns
      1. ***X***  - a unique number key
      2. ***Summary*** – the report text blob

Steps

1. Update the file paths to:
   * 1. The new report csv
     2. The topic model - R Object output from **topic\_model\_training.R**
     3. The predictive model - R Object output from **topic\_model\_training.R**
2. Run the entire script

Workflow overview

* Import the new reports to be predicted. These are feed into the trained topic model which outputs their probability for belonging to a topic
* These topic probabilities are then feed into the trained predictive model
* The predictive model outputs predictions
* The predictions are appended to the new report data set and it is output as csv ***predictions.csv***
  + 1 = actual UAS sighting
  + 0 = noise