

Reporting: wrangle\_report

## Introduction

This is a real world data wrangling project using three different data set obtain from WeRateDogs. WeRateDogs is a Twitter account that rates people's dogs with a humorous comment about the dogs. The three data set was provided by Udacity for analysis. They include the tweet\_json, image-prediction and twitter-archive-enhanced data set. The data wrangling process was spitted into series of steps which are :

Step 1: Gathering data

Step 2: Assessing data

Step 3: Cleaning data

Step 4: Storing data

Step 5: Analyzing, and visualizing data

Step 6: Reporting

## Gathering data

The data was gathered from three sources. Udacity gave us the twitter-archive-enhanced, tweet-json and image-predictions data set. The twitter-archive-enhanced file was loaded into dataframe and the image-prediction data set was downloaded programatically using the request and get method. Tweepy was used to download the tweet\_json file from the Tweeter WeRateDogs API

## Assessing data

Each data set was loaded into data frame in other to identify some quality and tidiness issues in the data set.

### Quality issues

1. The rating\_denominator columns have value greater and less than 10
2. The rating\_numerator columns have value considerable values greater than 10
3. Their is a lot of NAN values in the in\_reply\_to\_status\_id, reply\_to\_user\_id
4. The timestamp in df\_arch as the wrong datatypes
5. The source columns as unnecessary html anchor and href tag
6. Errors of name in the name columns e.g (infuriating, a, by, the, space, etc)
7. Considerable number of tweet without image
8. timestamp and retweet\_status\_timestamp are not a datetime variable
9. The names columns are not in the standard form
10. Consederable numbers of retweet

### Tidiness issues

1. Removing the three empty columns from df\_arch\_clean table (i.e retweeted\_status\_id, retweeted\_status\_user\_id and retweeted\_status\_timestamp)
2. The source and expanded\_url column have several information in them
3. doggo, floofer, pupper, puppo columns in arch\_df should be merged into one column named dog\_stage
4. The retweet\_count and favorite\_count columns in the df\_api table should be joined to the df\_arch table

## Cleaning Data

All imperfection was removed from each of the data set making it ready for the analysis.

## Storing data

The clean data set was stored into a single dataframe called merge\_df using the inner join method.