

Goals

- * Successfully distinguish between tweets about professional football & those that are not
- * Visualize tweets about football in a meaningful way
- * Analyze & compare tweets in relation to particular teams, match-ups, & our dataset as a whole

Approach

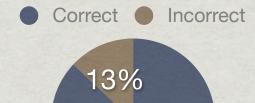
- * Research Preferred Methods
- * Data Acquisition
- * Data Analysis
- * Data Visualization

Data Acquisition

- * Collecting tweets using unfiltered Twitter stream on Sundays from 10AM - 9PM Pacific
- * ~2 Million tweets / day
 - ★ Data collection error left us w/ only partial data for Nov 18 (~1.5M tweets)
- * ~14 Million tweets in our dataset at the moment
- * Tweet data collected: date, time, username, tweet, hashtags, & geolocation
- * Indexed tweets using Apache Solr

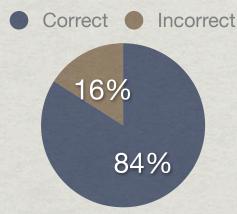
Algorithm Development

FOOTBALL TWEET RECALL



FOOTBALL TWEET PRECISION

87%



CURRENT WEIGHTING RESULTS

Lists used:

Term list

Generated by online football dictionary
Very common terms removed or improved
(Down -> 1st down, first down, etc.)

Team list

32 teams

Some variations (cowboy, cowboys, cowboyz)

@usernames

32 generated from verified accounts

Player names

ESPN player list (Full name only)

Hashtags

Top Hashtags from verified team accounts

Nicknames

Nicknames from Wikipedia dataset Weighted depending on commonality

Difference from previous lists (w/ nicknames, improved term)

Recall (how clean): steady

71% -> 87%

Precision (how complete): nearly doubled precision 57% -> 84%

Data Visualization

- * Using d3.js & Rickshaw visualization libraries
- * Total volume of (non) football tweets by week
- * Tweet rate during each matchup
- * Top tags found each week / matchup



