package com.twitter.search.common.relevance.features;

import com.twitter.search.common.encoding.features.EncodedFeatures;

/\*\*

\* Holds engagement features for a particular tweet and encodes them as a single int.

\* The features are: retweet count, favorite count, itweet score, reply count.

\*/

public class TweetEngagementFeatures extends EncodedFeatures {

private static final int RETWEET\_COUNT\_BIT\_SHIFT = 0;

private static final long RETWEET\_COUNT\_INVERSE\_BIT\_MASK = 0xffffff00L;

private static final int ITWEET\_SCORE\_BIT\_SHIFT = 8;

private static final long ITWEET\_SCORE\_INVERSE\_BIT\_MASK = 0xffff00ffL;

private static final int FAV\_COUNT\_BIT\_SHIFT = 16;

private static final long FAV\_COUNT\_INVERSE\_BIT\_MASK = 0xff00ffffL;

private static final int REPLY\_COUNT\_BIT\_SHIFT = 24;

private static final long REPLY\_COUNT\_INVERSE\_BIT\_MASK = 0x00ffffffL;

public TweetEngagementFeatures setRetweetCount(byte count) {

setByteIfGreater(count, RETWEET\_COUNT\_BIT\_SHIFT, RETWEET\_COUNT\_INVERSE\_BIT\_MASK);

return this;

}

public int getRetweetCount() {

return getByte(RETWEET\_COUNT\_BIT\_SHIFT);

}

public TweetEngagementFeatures setITweetScore(byte score) {

setByteIfGreater(score, ITWEET\_SCORE\_BIT\_SHIFT, ITWEET\_SCORE\_INVERSE\_BIT\_MASK);

return this;

}

public int getITweetScore() {

return getByte(ITWEET\_SCORE\_BIT\_SHIFT);

}

public TweetEngagementFeatures setFavCount(byte count) {

setByteIfGreater(count, FAV\_COUNT\_BIT\_SHIFT, FAV\_COUNT\_INVERSE\_BIT\_MASK);

return this;

}

public int getFavCount() {

return getByte(FAV\_COUNT\_BIT\_SHIFT);

}

public TweetEngagementFeatures setReplyCount(byte count) {

setByteIfGreater(count, REPLY\_COUNT\_BIT\_SHIFT, REPLY\_COUNT\_INVERSE\_BIT\_MASK);

return this;

}

public int getReplyCount() {

return getByte(REPLY\_COUNT\_BIT\_SHIFT);

}

}