package com.twitter.tweetypie.tweettext

/\*\*

\* A type class for entities found within a piece of tweet text.

\*/

trait TextEntity[T] {

def fromIndex(entity: T): Short

def toIndex(entity: T): Short

def move(entity: T, fromIndex: Short, toIndex: Short): T

}

object TextEntity {

def fromIndex[T: TextEntity](entity: T): Short =

implicitly[TextEntity[T]].fromIndex(entity)

def toIndex[T: TextEntity](entity: T): Short =

implicitly[TextEntity[T]].toIndex(entity)

def move[T: TextEntity](entity: T, fromIndex: Short, toIndex: Short): T =

implicitly[TextEntity[T]].move(entity, fromIndex, toIndex)

def shift[T: TextEntity](entity: T, offset: Short): T =

move(entity, (fromIndex(entity) + offset).toShort, (toIndex(entity) + offset).toShort)

}