package com.twitter.simclusters\_v2.common

object SeqStandardDeviation {

def apply[T](t: Seq[T])(implicit mapper: T => Double): Double = {

if (t.isEmpty) {

0.0

} else {

val sum = t.foldLeft(0.0) {

case (temp, score) =>

temp + score

}

val mean = sum / t.size

val variance = t.foldLeft(0.0) { (sum, score) =>

val v = score - mean

sum + v \* v

} / t.size

math.sqrt(variance)

}

}

}