

STATS 419 Survey of Multivariate Analysis

Week 03 Assignment 02_datasets

Josh Pickel
(joshua.pickel@wsu.edu)
[11594029]

Instructor: Monte J. Shaffer

10 September 2020

```
#github.path = 'https://raw.githubusercontent.com/JoshuaPickel/WSU_STATS419_FALL2020/';  
#source_url(paste0(github.path, 'master/functions/libraries.R'));  
#source_url( paste0(github.path, "master/functions/functions-imdb.R") );
```

```
# Transpose matrix function to be used in functions  
transposeMatrix = function(mat)  
{  
  t(mat);  
}  
  
# Function to rotate 90 degrees  
rotateMatrix90 = function(mat)  
{  
  transposedMatrix = transposeMatrix(mat)  
  rotatedMatrix = transposedMatrix%%multiplicationMatrix  
  rotatedMatrix;  
}  
  
# Function to rotate 180 degrees  
rotateMatrix180 = function(mat)  
{  
  transposedMatrix = transposeMatrix(mat)  
  rotatedMatrix = transposedMatrix%%multiplicationMatrix  
  transposedMatrix = transposeMatrix(rotatedMatrix)  
  rotatedMatrix = transposedMatrix%%multiplicationMatrix  
  rotatedMatrix;  
}  
  
# Function to rotate 270 degrees  
rotateMatrix270 = function(mat)  
{  
  transposedMatrix = transposeMatrix(mat)  
  rotatedMatrix = transposedMatrix%%multiplicationMatrix  
  transposedMatrix = transposeMatrix(rotatedMatrix)  
  rotatedMatrix = transposedMatrix%%multiplicationMatrix  
  transposedMatrix = transposeMatrix(rotatedMatrix)
```

```
rotatedMatrix = transposedMatrix**multiplicationMatrix  
rotatedMatrix;  
}
```