

```

In [5]:          'C:/Users/User/Documents/Python Scripts/Emotions/Resumo.py'
         = 'C:/Users/User/Documents/Python Scripts/Emotions'

[0]      validation_0-merror:0.447368
Will train until validation_0-merror hasn't improved in 5 rounds.
[1]      validation_0-merror:0.342105
[2]      validation_0-merror:0.368421
[3]      validation_0-merror:0.447368
[4]      validation_0-merror:0.368421
[5]      validation_0-merror:0.473684
[6]      validation_0-merror:0.5
Stopping. Best iteration:
[1]      validation_0-merror:0.342105

[0]      validation_0-merror:0.210526
Will train until validation_0-merror hasn't improved in 5 rounds.
[1]      validation_0-merror:0.184211
[2]      validation_0-merror:0.263158
[3]      validation_0-merror:0.210526
[4]      validation_0-merror:0.236842
[5]      validation_0-merror:0.236842
[6]      validation_0-merror:0.236842
Stopping. Best iteration:
[1]      validation_0-merror:0.184211

[0]      validation_0-merror:0.421053
Will train until validation_0-merror hasn't improved in 5 rounds.
[1]      validation_0-merror:0.342105
[2]      validation_0-merror:0.368421
[3]      validation_0-merror:0.342105
[4]      validation_0-merror:0.342105
[5]      validation_0-merror:0.342105
[6]      validation_0-merror:0.342105
Stopping. Best iteration:
[1]      validation_0-merror:0.342105

[0]      validation_0-merror:0.289474
Will train until validation_0-merror hasn't improved in 5 rounds.
[1]      validation_0-merror:0.263158
[2]      validation_0-merror:0.263158
[3]      validation_0-merror:0.263158
[4]      validation_0-merror:0.263158
[5]      validation_0-merror:0.263158
[6]      validation_0-merror:0.263158
Stopping. Best iteration:
[1]      validation_0-merror:0.263158

[0]      validation_0-merror:0.315789
Will train until validation_0-merror hasn't improved in 5 rounds.
[1]      validation_0-merror:0.473684
[2]      validation_0-merror:0.394737
[3]      validation_0-merror:0.394737
[4]      validation_0-merror:0.394737
[5]      validation_0-merror:0.394737
Stopping. Best iteration:
[0]      validation_0-merror:0.315789

[0]      validation_0-merror:0.368421
Will train until validation_0-merror hasn't improved in 5 rounds.
[1]      validation_0-merror:0.394737
[2]      validation_0-merror:0.421053
[3]      validation_0-merror:0.368421

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[4] validation_0-merror:0.368421
[5] validation_0-merror:0.368421
Stopping. Best iteration:
[0] validation_0-merror:0.368421

[0] validation_0-merror:0.5
Will train until validation_0-merror hasn't improved in 5 rounds.
[1] validation_0-merror:0.552632
[2] validation_0-merror:0.526316
[3] validation_0-merror:0.5
[4] validation_0-merror:0.5
[5] validation_0-merror:0.526316
Stopping. Best iteration:
[0] validation_0-merror:0.5

[0] validation_0-merror:0.368421
Will train until validation_0-merror hasn't improved in 5 rounds.
[1] validation_0-merror:0.342105
[2] validation_0-merror:0.342105
[3] validation_0-merror:0.368421
[4] validation_0-merror:0.342105
[5] validation_0-merror:0.368421
[6] validation_0-merror:0.368421
Stopping. Best iteration:
[1] validation_0-merror:0.342105

[0] validation_0-merror:0.342105
Will train until validation_0-merror hasn't improved in 5 rounds.
[1] validation_0-merror:0.315789
[2] validation_0-merror:0.315789
[3] validation_0-merror:0.315789
[4] validation_0-merror:0.289474
[5] validation_0-merror:0.315789
[6] validation_0-merror:0.342105
[7] validation_0-merror:0.342105
[8] validation_0-merror:0.342105
[9] validation_0-merror:0.342105
Stopping. Best iteration:
[4] validation_0-merror:0.289474

[0] validation_0-merror:0.289474
Will train until validation_0-merror hasn't improved in 5 rounds.
[1] validation_0-merror:0.368421
[2] validation_0-merror:0.289474
[3] validation_0-merror:0.342105
[4] validation_0-merror:0.342105
[5] validation_0-merror:0.315789
Stopping. Best iteration:
[0] validation_0-merror:0.289474

best score: 0.289474, best iteration: 0, best ntree limit 1
C:\Users\User\Documents\Python Scripts\Emotions\Resumo.py:133: FutureWarning:
Method .as_matrix will be removed in a future version. Use .values instead.
    y_testm=y_test.as_matrix()
C:\Users\User\Documents\Python Scripts\Emotions\Resumo.py:133: FutureWarning:
Method .as_matrix will be removed in a future version. Use .values instead.
    y_testm=y_test.as_matrix()
[[12  1  6]
 [ 5  0  1]
 [ 4  1  8]]

```

Scores: [1.12390297]

```
Mean: 1.124
Std: 0.000
[[17  0  0]
 [ 3  2  2]
 [ 1  0 13]]
```

```
Scores: [1.12390297 0.48666426]
```

```
Mean: 0.805
```

```
Std: 0.319
```

```
C:\Users\User\Documents\Python Scripts\Emotions\Resumo.py:133: FutureWarning:
Method .as_matrix will be removed in a future version. Use .values instead.
```

```
y_testm=y_test.as_matrix()
```

```
C:\Users\User\Documents\Python Scripts\Emotions\Resumo.py:133: FutureWarning:
Method .as_matrix will be removed in a future version. Use .values instead.
```

```
y_testm=y_test.as_matrix()
```

```
[[10  2  3]
 [ 5  0  4]
 [ 2  1 11]]
```

```
Scores: [1.12390297 0.48666426 0.91766294]
```

```
Mean: 0.843
```

```
Std: 0.265
```

```
[[18  1  1]
 [ 4  1  1]
 [ 1  1 10]]
```

```
Scores: [1.12390297 0.48666426 0.91766294 0.62828086]
```

```
Mean: 0.789
```

```
Std: 0.248
```

```
C:\Users\User\Documents\Python Scripts\Emotions\Resumo.py:133: FutureWarning:
Method .as_matrix will be removed in a future version. Use .values instead.
```

```
y_testm=y_test.as_matrix()
```

```
C:\Users\User\Documents\Python Scripts\Emotions\Resumo.py:133: FutureWarning:
Method .as_matrix will be removed in a future version. Use .values instead.
```

```
y_testm=y_test.as_matrix()
```

```
[[13  0  1]
 [ 6  0  5]
 [ 2  1 10]]
```

```
Scores: [1.12390297 0.48666426 0.91766294 0.62828086 0.79471941]
```

```
Mean: 0.790
```

```
Std: 0.222
```

```
C:\Users\User\Documents\Python Scripts\Emotions\Resumo.py:133: FutureWarning:
Method .as_matrix will be removed in a future version. Use .values instead.
```

```
y_testm=y_test.as_matrix()
```

```
[[16  1  1]
 [ 4  0  3]
 [ 4  0  9]]
```

```
Scores: [1.12390297 0.48666426 0.91766294 0.62828086 0.79471941 0.85839508]
```

```
Mean: 0.802
```

```
Std: 0.204
```

```
C:\Users\User\Documents\Python Scripts\Emotions\Resumo.py:133: FutureWarning:
Method .as_matrix will be removed in a future version. Use .values instead.
```

```
y_testm=y_test.as_matrix()
```

```
[[15  1  4]
 [ 4  0  2]
 [ 5  0  7]]
```

```
Scores: [1.12390297 0.48666426 0.91766294 0.62828086 0.79471941 0.85839508
1.063757 ]
Mean: 0.839
Std: 0.210
[[16 0 3]
 [ 4 1 2]
 [ 3 1 8]]
```

```
Scores: [1.12390297 0.48666426 0.91766294 0.62828086 0.79471941 0.85839508
1.063757 0.90321065]
Mean: 0.847
Std: 0.198
C:\Users\User\Documents\Python Scripts\Emotions\Resumo.py:133: FutureWarning:
Method .as_matrix will be removed in a future version. Use .values instead.
    y_testm=y_test.as_matrix()
[[17 0 3]
 [ 5 1 0]
 [ 2 2 8]]
```

```
Scores: [1.12390297 0.48666426 0.91766294 0.62828086 0.79471941 0.85839508
1.063757 0.90321065 0.84292723]
Mean: 0.847
Std: 0.186
C:\Users\User\Documents\Python Scripts\Emotions\Resumo.py:133: FutureWarning:
Method .as_matrix will be removed in a future version. Use .values instead.
    y_testm=y_test.as_matrix()
[[12 3 4]
 [ 2 1 3]
 [ 3 0 10]]
```

```
Scores: [1.12390297 0.48666426 0.91766294 0.62828086 0.79471941 0.85839508
1.063757 0.90321065 0.84292723 0.97332853]
Mean: 0.859
Std: 0.181
Acertos em hipótese simples:246/380 - 64.74%
Acertos em hipótese simples:327/380 - 86.05%
```

In [6]: