

## Grp 16: Bilag - slutprojekt

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## Contents

<b>1</b>	<b>Datasæt med 100 samples pr. genre</b>	<b>3</b>
<b>2</b>	<b>datasæt med 600 samples. pr genre</b>	<b>4</b>

## 1 Datasæt med 100 samples pr. genre

Resultaterne fra test på default parameter tests ses nedenfor:

Accuracy Naive Bayes : 40.000%

Accuracy Stochastic Gradient Descent : 44.667%

Accuracy KNN : 55.333%

Accuracy Decission trees : 50.000%

Accuracy Random Forest : 65.667%

Accuracy Support Vector Machine : 49.000%

Accuracy Logistic Regression : 48.333%

Accuracy Neural Nets : 50.333%

Accuracy Gradient boost : 62.000%

Accuracy Hist gradient boost : 66.667%

Accuracy Cross Gradient Booster : 67.333%

og confusion metric for datasættet.

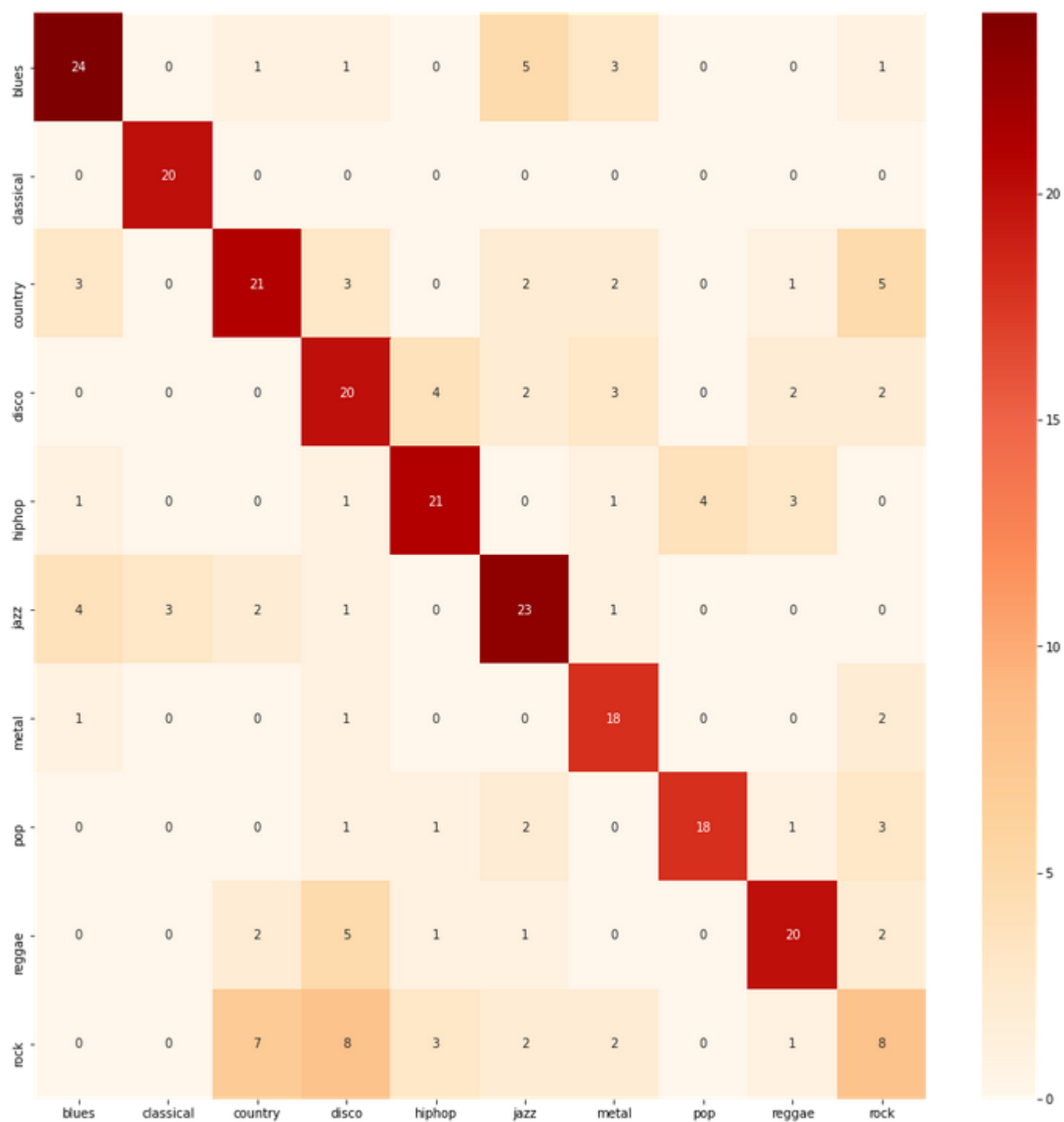


Figure 1: Confusion metrics for 100 samples

## 2 datasæt med 600 samples. pr genre

Resultaterne fra test på default parameter tests ses nedenfor:

*#5 sec set*

Accuracy Naive Bayes : 39.411%

Accuracy Stochastic Gradient Descent : 51.195%

Accuracy KNN : 74.597%

Accuracy Decission trees : 65.314%

Accuracy Random Forest : 80.823%

Accuracy Support Vector Machine : 57.310%

Accuracy Logistic Regression : 56.142%

Accuracy Neural Nets : 62.201%

Accuracy Gradient boost : 76.765%

Accuracy Hist gradient boost : 85.492%

Accuracy Cross Gradient Booster : 83.102%

og confusion metric for datasettet.

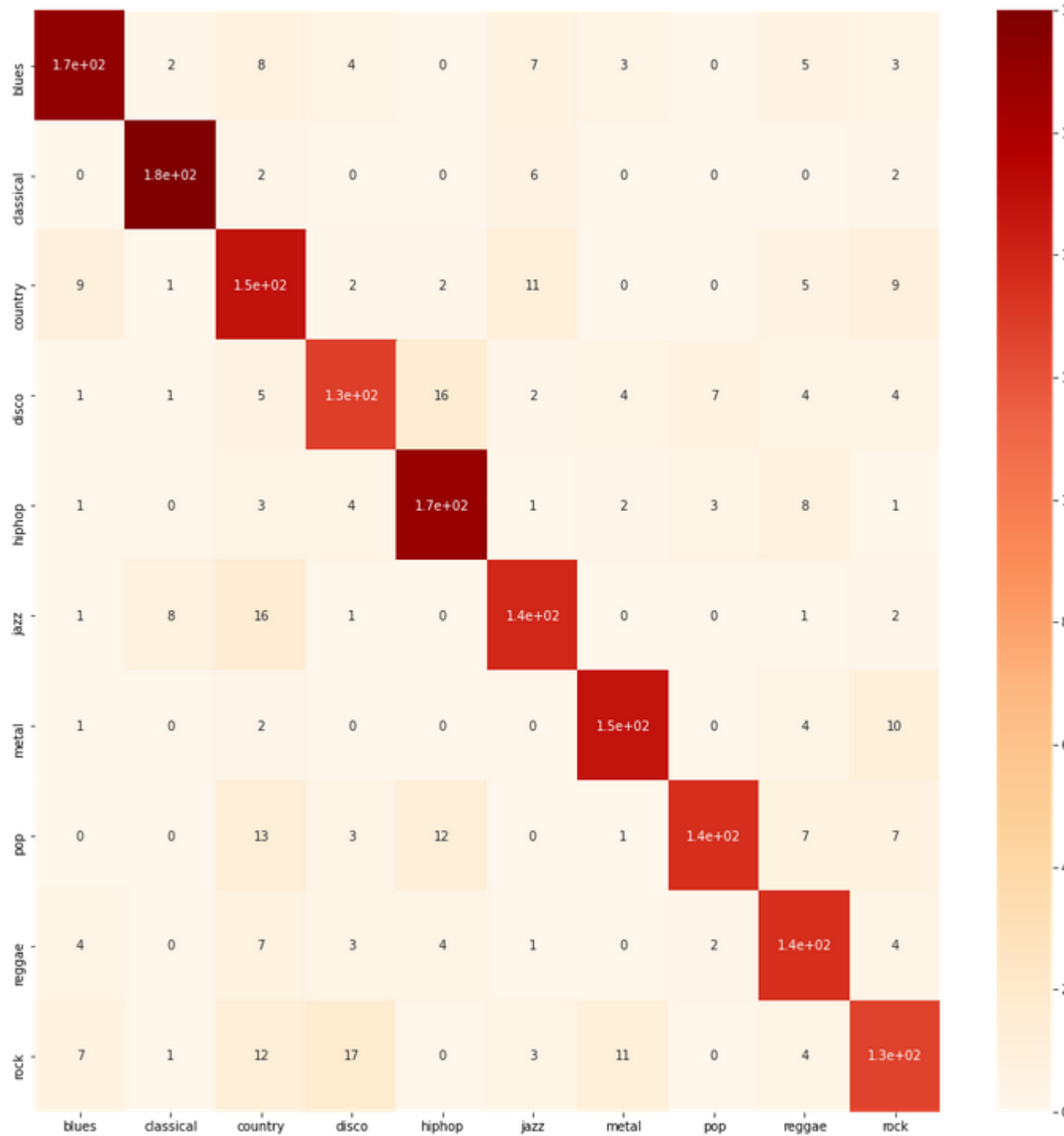


Figure 2: Confusion metrics for 600 samples