## Language Recognition

In [13]: %store -r accaccuracy_df	curacy_df
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Out[13]:			Training Data Accuracy	Test Data Accuracy
	Count Vectorizer  Tf-idf	Logistic Regression	0.993295	0.939773
		Naive Bayes	0.991023	0.959318
		<b>Logistic Regression</b>	0.974034	0.941364
		Naive Bayes	0.983920	0.939545

## First Sentence Prediction

In [14]:	%store -r accuracy_f1
	accuracy_f1

Out[14]:			Training Data	Test Data
	<b>Count Vectorizer</b>	Accuracy	0.673437	0.533291
		F1 Score	0.645661	0.443936
	Tf-idf	Accuracy	0.695176	0.592190
		F1 Score	0.684098	0.547264

In [15]:	%store -r tf_optimized
	tf_optimized

Out[15]:			Training Data	Test Data
	<b>Un-optimized</b>	Accuracy	0.695176	0.592190
		F1 Score	0.684098	0.547264
	Optimized	Accuracy	0.696604	0.580026
		F1 Score	0.688193	0.528058