

Kofax eFlow Design Smart User's Guide

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Preface

The eFlow Design Smart module enables you to build a model for automatic classification of documents. This guide explains how to use Design Smart in an application, create a classification model, analyze classification result, tune a model, and configure parameters.

Product documentation

To access the full Kofax eFlow documentation set online, see the Kofax eFlow Product Documentation page. For a complete set of Kofax eFlow documents, refer to the Kofax eFlow Release Notes.

Chapter 1 Design Smart window

In the **eFlow LaunchPro**, select **Design Smart** from the **Tools** list. The **Design Smart** window appears.

🔀 Design Smart								-	٥	×
File Setting Actions Help										
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1 21 III	Training Statistics	Recall Precision Confusion Matrix Docume	nts View Compare Statistics							
System Setup	🤣 💥 🙊 📝 🖻									1
 *FullPage 	News									
Auto Rotation (True	Name	Original		Correct	Unrecognized	False Ratio	Assigned To	Score	Count	
Auto Rotation (True	H D 1-4 Family Rider	Verall		86.05	13.95	0.00			86	
Auto Rotation True	🕀 💭 1003 - Final	🗄 🥩 1-4 Family Rider		88.89	11.11	0.00			9	
Auto Rotation 2 True	🗄 📁 1040 and 1040A	🗄 📁 1003 - Final		82.35	17.65	0.00			34	
Image Enhano	1802	🔣 📁 1040 and 1040A		86.49	13.51	0.00			37	
Override Origir False	🗄 📁 24 Month Chain of Title	🕀 🥩 24 Month Chain of Title		100.00	0.00	0.00			6	
Pages To Ocr All	🗄 🧾 AKA Statement									
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Classificatic PRD										
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Document Collection			_							
Ignore Punc True			(3)							
Ignore Unre True			0							
Keep Only , True										
Minimal Wc 3										
Number Of All										
Remark										
Remove Ni True										
Save Date 25/01/2017 14:10:03										
Threshold F True										
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Words Seq One										
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Optimization M FalseCoefficient										
I raining\Classi 0.6										
			_							
			(4)							
			0							
Virtual OCB Engine										
The name of the full page OCR virtual	1									
Done								Application:	Freedom	Demo
0.010								rippiioud011.		o o mo

1	System setup
2	Image folders
3	Statistics
4	Image viewer

System setup

The System Setup pane area contains parameters for configuring and tuning the classification model. See Configuration parameters for more information.

Images folders

The folders containing the training and test images are displayed in the following two tabs:

- **Training**: Displays all folders and files that have been manually classified to train the system.
- Statistics: Displays all folders and files available for testing the automatic classification.

See Create the classification model for more information.

Statistics

Displays statistics generated after classification.

See Analyze the classification results for more information.

Image viewer

You can view the image of a document, by double-clicking on the document in the Recall, Precision, or Documents View tab.

The following buttons are available to work with the image viewer.

Button	Description
€,	Increases the image size.
۹	Decreases the image size.
1	Displays the full page width.
1	Displays the entire page.
(2)	Rotates the image 90 degrees clockwise.
≪ ≫ < 5/15 🔰	For multi-page images, goes to the first, last, previous, or next page.

Chapter 2

Use Design Smart in eFlow application

To use Design Smart in an eFlow application, first create, test, and tune the Design Smart model for the application.

Add a PageOCR activity and a Smart activity to the Recognize workflow.

The PageOCR activity reads the OCR data of incoming documents. The Smart activity applies the model that was created with Design Smart to the PRD files.

If you want to do OCR on the recognized Smart documents, you will need more activities, such as Integra or Freedom.

The result will be a classification for each batch.

The classification can be kept as meta tags and can be seen in the eFlow Control module.

In the Smart Categorizer, you can see details for the collection, form, class, and confidence.

Chapter 3

Create a classification model

To create a classification model with Design Smart, you must provide sample TIF image files for each document type or class to be learned and split 60% for training and 40% for testing.

Guidelines for choosing suitable files

When collecting the samples, follow these guidelines to identify appropriate candidates to be learned:

- Do not use handwritten pages unless the handwriting is used within a machine-printed page.
- Rotate images to the correct orientation.
- Do not include blank images.
- Do not include poor-quality images.
- Make sure that images for a single class are not from just one source (from one client or supplier).
- Provide a total of 300 images (documents) per class.
- Do not keep the same image in two different classes.
- Use different images for training and classification.
- Make sure that the relevant folders have full permissions to read, write and create.

Prepare the files

1. Create a folder for storing the images to be learned.

For example, C:\eFLOW\Smart

- **2.** Create two subfolders as shown below:
 - **Training**: This folder contains 60% of the overall files available for each type. These files are used to build the model.
 - **Classification**: This folder contains 40% of the overall files available. These files are used to test the model and display the results in Design Smart.

Iraining and **Classification** are example folders. You can name the folders as needed.

3. In each folder, create a subfolder for each document type and copy 60% of the TIF image files in the Training subfolders and 40% in the Classification subfolders.

		- • •
😋 🔾 🗢 📗 « Smart 🕨 Training 🕨	👻 🍫 🛛 Search Tra	ining 🔎
Organize 👻 Include in library 👻	Share with 🔻 New fold	er 🗄 🕶 🗍 🔞
Name	Date modified	Туре
퉬 Account Maintenance	11/05/2012 12:11	File folder
퉬 ChangeofAddressForm	11/05/2012 12:11	File folder
퉬 ChangeofAddressLetter	11/05/2012 12:11	File folder
퉬 Complaints	11/05/2012 12:11	File folder
鷆 Direct Debit Letter	11/05/2012 12:10	File folder
鷆 DirectDebit	11/05/2012 12:10	File folder
鷆 Fuel Direct	11/05/2012 12:10	File folder
퉬 StandingOrders	11/05/2012 12:10	File folder
8 items		

C:\eFLOW\Smart\Classification	👻 🍫 🛛 Search Cla	ssification 🔎
Organize 🔻 Include in library 👻 Share	e with 🔻 🛛 New fold	ler 🗄 🔻 🗍 🔞
Name	Date modified	Туре
퉬 Account Maintenance	11/05/2012 12:11	File folder
🐌 ChangeofAddressForm	11/05/2012 12:11	File folder
🐌 ChangeofAddressLetter	11/05/2012 12:11	File folder
퉬 Complaints	11/05/2012 12:11	File folder
퉬 Direct Debit Letter	11/05/2012 12:11	File folder
퉬 DirectDebit	11/05/2012 12:11	File folder
퉬 Fuel Direct	11/05/2012 12:11	File folder
퉬 StandingOrders	11/05/2012 12:11	File folder
8 items		

- 4. In the **Design Smart** window, on the **Setting** menu, select **Training Dir**.
- Select the Training folder, then click OK. The subfolders are displayed in the Training tab.



6. On the Setting menu, select Classification Dir.

 Select your Classification folder, then click OK.
 The subfolders are displayed on the Statistics tab, and the selected folders appear in the Classification Parameters under Classification Root Directory and Training Root Directory.

Automatic file preparation

Rather than adding files manually to your Training and Classification folders, you can have Design Smart automatically split the files into these folders.

1. In the System Setup pane, under General Parameters, type a value in the Training/ Classification Ratio field.

The default value is 0.6, which means that 60% of the available files will be added to the Training folder and the remaining 40% to the Classification folder.

2. On the Actions menu, click Split I.

Create full-page OCR

You must perform full-page OCR on all images. Performing OCR creates .PRD files in the Training and Classification folders.

- 1. In the System Setup pane, under the Full Page section, select a Virtual OCR Engine.
- 2. On the Training tab, click Create full page OCR 📝 .

The **Full Page OCR Progress** dialog box displays the progress of the full-page OCR creation process.

Full Page O	CR Progress
Class	1003 - Final 25%
Total	15%
File	C:\Projects\SmartExercise\Training\1003 - Final\1003 (Final) (23) Nice Copy_Pag
	Cancel

When the process is finished, the dialog box closes with a message, "Full page OCR data was created successfully" appears in the status bar below the **System Setup** pane.

3. On the **Statistics** tab, click **Create full page OCR**

Train and classify

- 1. On the Actions menu, select Train, or on the toolbar, click Train . The Training Progress dialog box displays the progress of the training process. When the process is finished, the dialog box closes and the message "Done Training" appears on the status bar, below the System Setup pane.
- 2. On the Statistics tab, click Actions > Classify, or on the toolbar, click Classify №. The Classification Progress dialog box displays the progress of the classification process. When the process is finished, the dialog box closes and the message "Done" appears on the status bar, below the System Setup pane.

Full Page O	CR Progress
Class	1003 - Final 25%
Total	15%
File	C:\Projects\SmartExercise\Training\1003 - Final\1003 (Final) (23) Nice Copy_Pag
	Cancel

Statistics are now displayed in the **Recall** tab.

Add new classes and files

You can add new classes and files to the model at any time.

- **1.** In the configuration parameters, set the **Threshold per Category** to **False**.
- **2.** Create new subfolders for the document classes in the Training and Classification folders, and add the appropriate files to these subfolders.
- **3.** Re-select the top-level Training and Classification folders in Design Smart and follow the processes described for building, analyzing, and tuning the model.

Remove classes and files

When removing a document type or specific examples from a document class folder, make sure both TIF and PRD files are removed.

i There may be more than one PRD file per TIF image.

Batch processing

In batch processing, you can perform several actions in one go, rather than performing each action manually.

- 1. On the Actions menu, select Batch Processing, or on the toolbar, click Batch Processing 🔪.
- 2. In the **Batch Processing** dialog box, select the actions you want to perform.

Batch Processing	
 □ Create Full Page ☑ Train Model ☑ Classify Test Set □ Train and Reclas 	OCR sify
Start	Cancel

3. Click Start.

Chapter 4

Analyze the classification results

The results of testing appear in the tabs to the right of the workspace. The results are statistics that measure how accurate the automatic classification is compared to manual classification in the test folder. Your classification of test documents into the class subfolders is assumed to be correct.

Recall and Precision tabs

The Recall tab lists all tested classes and their documents (that is, the contents of the Classification folder), indicating which of those documents were correctly or incorrectly classified, or not recognized.

The Recall tab shows the ratio of documents that were correctly classified to a class to the total number of documents that truly belong to this class. The number of documents incorrectly assigned to this class has no bearing on this figure.

Recall Precision Confusion Matrix Documents View Compare Statistics						
♦ ♠ 8						
Name	Correct	Unrecognized	False Ratio	Assigned To	Score	Count
🕨 🖃 🌃 Overall	99.07	0.00	0.93			430
🕀 🧔 Account Maintenance	100.00	0.00	0.00			37
🕀 📁 ChangeofAddressForm	100.00	0.00	0.00			8
🕀 🧔 ChangeofAddressLetter	98.63	0.00	1.37			292
🕀 📁 Complaints	100.00	0.00	0.00			58
🕀 🧔 Direct Debit Letter	100.00	0.00	0.00			9
🕀 📁 Direct Debit	100.00	0.00	0.00			14
🕀 📁 Fuel Direct	100.00	0.00	0.00			10
🕀 📁 Standing Orders	100.00	0.00	0.00			2

The Precision tab lists all classes to which documents were assigned, indicating which of those documents were correctly or incorrectly classified, or not recognized.

The Precision tab shows the ratio of documents that were correctly classified to a class to the total number of documents that were classified (correctly or in error) to this class. Precision for a class is lower if there are documents that were incorrectly assigned to this class.

Recall	Precisio	n Confusion Matrix	Documents V	iew Compare	Statistics			
* *		-						
Assig	ned To		Correct	Unrecognized	False Ratio	Name	Score	Count
▶ 🗆 ‰	Overall		99.07	0.00	0.93			430
+	💋 Accou	nt Maintenance	100.00	0.00	0.00			37
+	🃁 Chang	jeofAddressForm	100.00	0.00	0.00			8
+	🂋 Chang	jeofAddressLetter	100.00	0.00	0.00			288
+	💋 Comp	laints	100.00	0.00	0.00			58
+	💋 Direct	Debit Letter	100.00	0.00	0.00			9
+	💋 Direct	Debit	77.78	0.00	22.22			18
+	🧔 Fuel D	irect	100.00	0.00	0.00			10
+	💋 Stand	ing Orders	100.00	0.00	0.00			2

Column	Description
Correct	Percentage of documents correctly assigned to each class. Correctly assigned documents are indicated by 🤣.
Unrecognized	Percentage of documents that could not be assigned to any class. Unrecognized documents are indicated by 🛐.
False Ratio	Percentage of documents assigned to the wrong class. Incorrectly assigned documents are indicated by 🔀
Assigned To	Class to which the document was incorrectly assigned.
Score	The score awarded by Smart Classifier during classification for that particular class.
Count	Number of documents overall and in each category. If you set the Document Type parameter to Page, each page of a multipage TIF is treated as a separate document. If you set it to Collection, a multipage TIF is treated as a single document.

Consider the following example, where a set of 150 documents, 100 of class A, and 50 of class B need to be classified. One set of thresholds returns the following results:

- Of the 100 documents of class A, 80 are classified correctly and 20 are classified as B.
- Of the 50 documents of class B, all 50 are classified as B.

For the A documents:

- The recall for A is 80: It is calculated by the ratio of 80/100 (80%).
- The precision for A is the highest possible: 80/80 (100%), as all 80 documents assumed to be A are actually A.

For the B documents:

1. The recall for B is 50/50 (100%), that is, all 50 B documents were correctly identified.

2. The precision for B is not as high, only 50/70 (71.42%), as there were also 20 A documents that were assigned to class B.

Without both recall and precision, it would be necessary to view all the categories to see where the wrong classification was made. For example, if Financial Statements have a low recall rate, you may need to know the other missing categories that are incorrectly assigned. Checking the classes with low precision helps you to focus on those categories.

Confusion Matrix tab

The essential conclusions of the classification testing are displayed in this tab. Here it is easy to identify patterns in the behavior of the algorithm for a test with a particular set of thresholds and other parameters.

Each cell in the matrix represents a set of documents. Double-click in a cell to view the document set in the Documents View.

Recall Pre	Recall Precision Confusion Matrix Documents View Compare Statistics								
i 🗖 🗖 🛢									
Real-Cla	. UnReco	Account	Change	Change	Complai	Direct D	DirectD	Fuel Dir	Standing
UnRec		0	0	0	0	0	0	0	0
Accoun	0	37	0	0	0	0	0	0	0
Change	0	0	8	0	0	0	0	0	0
Change	0	0	0	288	0	0	4	0	0
Complai	0	0	0	0	58	0	0	0	0
Direct	0	0	0	0	0	9	0	0	0
DirectD	0	0	0	0	0	0	14	0	0
Fuel Dir	0	0	0	0	0	0	0	10	0
Standin	0	0	0	0	0	0	0	0	2

Documents View tab

In the Documents View tab, you can view a defined set of documents selected via the Recall, Precision, or Confusion Matrix tabs.

Recall Precision Confusion Matrix Documents View Compare Statistics									
8 8									
Drag a column header here to group by that column									
DocumentName Status Score Original AssignedTo									
▶ h000000002_00000324	e	0.422	Account Maintenance	Account Maintenance					
h000000002_00000325	Ø	0.429	Account Maintenance	Account Maintenance					
h000000002_00000327	0	0.428	Account Maintenance	Account Maintenance					
h000000002_00000329	0	0.429	Account Maintenance	Account Maintenance					
h000000002_00000331	0	0.428	Account Maintenance	Account Maintenance					
h000000002_00000332	0	0.418	Account Maintenance	Account Maintenance					
h000000002_00000333	0	0.426	Account Maintenance	Account Maintenance					
h000000002_00000335	0	0.429	Account Maintenance	Account Maintenance					
h000000002_00000336	0	0.447	Account Maintenance	Account Maintenance					
h000000002_00000341	Ø	0.436	Account Maintenance	Account Maintenance					
h000000002_00000342	0	0.429	Account Maintenance	Account Maintenance					
h000000002_00000343	Ø	0.435	Account Maintenance	Account Maintenance					

Sort the list

Click once to sort the list in ascending order, and again to sort in descending order.

Filter the list

- Click the arrow next to the column heading and select an item from the filter list.
- Click **Reset filter a** to view all documents again.

Status	
UNRECOGNIZED	
(All) (Custom) (Blanks) (Non blanks) CORRECT FALSE UNRECOGNIZED	
	.::

Group the list

- Click on a column header and drag it to the area labeled as **Drag a column header here to** group by that column.
- To remove a grouping, click on it and drag it back into the list.

Save the list to a file

You can save the complete document list or a filtered view to an Excel, text, HTML, or XML file.

- To save the file for viewing later, click **Save to file** 🛃.
- To save the file and view it immediately in the application associated with that file type, click **Save to file and open with default application**

View the file image

Double-click anywhere in the row associated with the document.

Save and export statistics

When the classification process is complete, you can export the results to an XML file and compare them with up to four different sets of saved classification model statistics.

After you update the configuration parameters and the thresholds, you should export both the classification configuration and the classification statistics to a file. Name the files in the same way so that it is easy to locate the correct configuration to re-import following statistics comparison.

- To export the configuration, on the Actions menu, select Export Configuration to file.
- To export statistics, on the Actions menu, select Export Statistics, or click Export Statistics 🚰.

Compare statistics

You can compare up to four sets of statistics. You must have previously exported and saved the statistics that you want to compare. See Save and export statistics.

- 1. On the Actions menu, click Compare Statistics 🚮.
- 2. In the **Multiple Series Loader** dialog box, click ____ right to the **Filename** field and select each statistics file that you want to compare.
- 3. Optional. In the Legend field, type a description of the statistics.
- 4. Optional. Click **Color** to select a color for each file.

Multiple Series Loader	
Legend	Initial Classification Settings
Filename	C:\Users\Demo\Desktop\1 xml
Color	
Legend	Modified Classification Settings
Filename	C:\Users\Demo\Desktop\2.xml
Color	
Legend	
Filename	
Color	
Legend	
Filonomo	
Color	
00101	
	OK

5. Click **OK**.

The following image shows the results of two configurations being compared using the Confusion Matrix view.

R	Recall Precision Confusion Matrix Documents View Compare Statistics																		
I				Jocann		200													
	Real-Clas	UnRe	cog	Acco	unt	Chang	jeof	Chang	jeof	Comp	olaints	Direct	De	Direc	tDebit	Fuel I	Direct	Stand	ing0
Þ				1	1	0	0	0	0	0	0	0	0	18	0	0	0	0	0
	Account	0	0	37	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Changeof	0	0	0	0	8	8	0	0	0	0	0	0	0	0	0	0	0	0
	Changeof	4	0	0	0	0	0	288	288	0	0	0	0	0	4	0	0	0	0
	Complaints	0	0	0	0	0	0	0	0	58	58	0	0	0	0	0	0	0	0
	Direct De	1	1	0	0	0	0	0	0	0	0	8	8	0	0	0	0	0	0
	DirectDebit	14	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0
	Fuel Direct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	0	0
	Standing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
				-												-			
-	(

Chapter 5 Tune the Smart model

Each classified document is given a classification score, which is shown in the Recall, Precision, and Documents View tabs. The desired outcome of classification can be affected by altering the threshold required for positively assigning a document class.

You can control the ratio of unrecognized to false positive using of the Threshold parameter(s), found in the properties grid on the left, under Classification > Engine Setup. For example, if you wish to lower the number of unrecognized documents at the cost of more false positives, lower the threshold. You can specify one general threshold for all categories or a different threshold for each category.

Thresholds	
Accounting Invoices	0.28
Add Co-Apps	0.28
Auto Pay	0.28
Bankruptcies	0.28
CCCs	0.28
Death Certificates	0.28
Disputes	0.28
Divorces	0.28
Financial Statements	0.28
Fixed Pay	0.28
General Correspondence	0.28
Remove Co-signer	0.28
Training Document Type	FLAT_T
Training Root Directory	E:\2006
Words N-Grams	None
Words Sequence	One
Engine Type	TiS Cla

Threshold Per Category	True
Thresholds	
Accounting Invoices	0.005
Add Co-Apps	0
Auto Pay	0.225
Bankruptcies	0
CCCs	0
Death Certificates	0.275
Disputes	0.255
Divorces	0
Financial Statements	0
Fixed Pay	0
General Correspondence	0.29
Remove Co-signer	0
Training Document Type	FLAT_T
Training Root Directory	E:\2006
Words N-Grams	None
Words Sequence	One
Engine Type	TiS_Cla

Chapter 6

Configuration parameters

This chapter describes the Design Smart configuration parameters.

	2↓ 🖻	
~	System Setup	
 ~	*FullPage	
	Auto Rotation 000	True
	Auto Rotation 090	True
	Auto Rotation 180	True
	Auto Rotation 270	True
	Image Enhancements	
	Maximal Number Of First Pages To Recognize	0
	Override Original Image	False
	Pages To Ocr	All
	Virtual OCR Engine	OP_ExperVision_English_0
 ~	Classification Parameters	
	✓ Engine Setup	
	Classification Document Type	PRD
	Classification Root Directory	C:\Projects\SmartExercise\Classification
	Document Type	Collection
	Ignore Punctuation	True
	Ignore Unrecognized Words	True
	Keep Only Alpha	True
	Minimal Word Size	3
	Number Of Pages	All
	Remark	
	Remove Numeric	True
	Save Date	23-Aug-17 13:32:13
	Threshold Per Category	True
	> Thresholds	
	Training Document Type	PRD
	Training Root Directory	C:\Projects\SmartExercise\Training
	Words N-Grams	G2
	Words Sequence	One
	Engine Type	TiS_Classifier
×	General Parameters	
	Optimization False Coefficient	3
	Optimization False Percent	5
	Optimization Method	FalsePercent
	Training\Classification Ratio	0.6

FullPage parameters

Parameter	Description
Autorotation	Rotates the image at the set angles.
Image Enhancements	Sets image enhancements that are applied on each image before the full page OCR.
Maximal Number Of First Pages	The number of pages per document that the full-page OCR will process.
Override Original Image	Whether to replace the original image with the auto-rotated TIF.
Pages to OCR	Creates full-page OCR for several pages in the document (relevant only to Smart Designer).
Virtual OCR engine	The virtual OCR engine is used to perform OCR on the images and create PRD files. You can define the virtual engines to be used with the eFlow application in the eFlow Design module.
	Refer to the Kofax eFlow Design User Guide for more information.

Classification parameters

Parameter	Description
Classification Document Type	Type of documents that are be used for classification and by the Categorizer: PRD : PRD file STD : Text file
Classification Root Directory	The folder that contains all classes used for classification.
Document Type	Collection : Treats each multipage TIF or collection as a separate document.
	Page : Treats each page of a multipage TIF or collection as a separate document.
Ignore Punctuation	Removes punctuation signs from the text.
Ignore Unrecognized Words	Removes words that contain any unrecognized character from the text.
Keep Only Alpha	Keeps only the alphabetical words.
Minimal Word Size	Keeps only words whose length is equal to or larger than the specified number of characters.
Number Of Pages	Number of pages to consider during the training and classification phases.
Remark	General remark that is saved with the model file.
Remove Numeric	Removes all instances of numbers.
Save Date	Date and time at which the model was last saved. This is entered automatically and cannot be edited.
Threshold Per	False: Applies a global threshold for all document classes.
Category	True : Allows a different threshold for each class.

Parameter	Description						
Thresholds	Defines individual thresholds for each document class.						
	The Threshold Per Category parameter must be set to True.						
	To define thresholds, in the Thresholds field, click . See Tune the Smart model for more information on defining thresholds.						
Training Document Type	Type of documents that will be used for training: PRD : PRD file						
	STD: Text file						
Training Root Directory	The folder that contains all classes used for training.						
Words N-Grams	Breaks words into low-level sub-words.						
	Captures words in long strings and searches for meaningful words of N characters.						
Words Sequence	Possibly considering a group as words with specific meaning.						
	Important phrases contain a given number of words (if unknown/irregular, leave them as default).						
Engine Type	Classification engine type.						

General parameters

Parameter	Description
Optimization False Coefficient	The coefficient of the % false in the linear objective function: % Correct - (coefficient * % False).
	Used when the Optimization Method is set to FalseCoefficient.
Optimization False Percent	The false ratio that the system should reach. Used when the Optimization Method is set to FalsePercent.
Optimization Method	Whether to optimize according to the false ratio or false coefficient.
Training/Classification Ratio	The ratio of documents that will be copied to the training folder when splitting a folder into training and classification.