

# XDoc.PDF Developer Guide – Document Processing Module

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## Combine two or more PDF files to a new PDF file

Combine two PDF files to a single PDF file

```
String inputFilePath1 = Program.RootPath + "\\\" + \"1.pdf\";
String inputFilePath2 = Program.RootPath + "\\\" + \"2.pdf\";
String outputFilePath = Program.RootPath + "\\\" + \"Output.pdf\";
String[] inputFilePaths = new String[2] { inputFilePath1, inputFilePath2 };
// Comebine two PDF files
PDFDocument.CombineDocument(inputFilePaths, outputFilePath);
```

Combine three PDF files to a single PDF file

```
String inputFilePath1 = Program.RootPath + "\\\" + \"1.pdf\";
String inputFilePath2 = Program.RootPath + "\\\" + \"2.pdf\";
String inputFilePath3 = Program.RootPath + "\\\" + \"3.pdf\";
String outputFilePath = Program.RootPath + "\\\" + \"Output.pdf\";
String[] inputFilePaths = new String[3] { inputFilePath1, inputFilePath2, inputFilePath3 };
// Comebine three PDF files
PDFDocument.CombineDocument(inputFilePaths, outputFilePath);
```

## Split a PDF file to two files

```
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
String outputFileName = \"Output\";
int splitIndex = 1; // valid value: 1 to (Page Count - 1)

List<String> outputFilePaths = new List<String>();
outputFilePaths.Add(Program.RootPath + "\\\" + outputFileName + \"_0.pdf\");
outputFilePaths.Add(Program.RootPath + "\\\" + outputFileName + \"_1.pdf\");

// split input file to 2 files, a file contains the first page of the input file,
// and another file contains all remained pages.
PDFDocument.SplitDocument(inputFilePath, splitIndex, outputFilePaths.ToArray());
```

## Split a PDF file to files

```
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
String outputFileName = \"Output\";
int[] splitIndex = new int[3] { 1, 3, 5 }; // valid value for each index: 1 to (Page Count - 1)

// create output file path list
List<String> outputFilePaths = new List<String>();
for (int i = 0; i <= splitIndex.Length; i++)
{
    outputFilePaths.Add(Program.RootPath + "\\\" + outputFileName + \"_\" + i.ToString() + \".pdf\");
}

// split input file to 4 files:
// file 0: page 0
// file 1: page 1 ~ 2
// file 2: page 3 ~ 4
// file 3: page 5 ~ last page
PDFDocument.SplitDocument(inputFilePath, splitIndex, outputFilePaths.ToArray());
```

## Extract pages from an exist PDF file

```
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
String outputFilePath = Program.RootPath + "\\\" + \"Output.pdf\";

// Selects 4 pages (page 0, 1, 3, 6) from the input file and form a PDF file with new order
// Page 0 use page 1 of the input file
// Page 1 use page 0 of the input file
// Page 2 use page 6 of the input file
// Page 3 use page 3 of the input file
int[] pageIndexes = new int[4] { 1, 0, 6, 3 };
PDFDocument.ExtractDocument(inputFilePath, pageIndexes, outputFilePath);
```

## Append all pages in a PDF file to the PDFDocument object

```
String appendedPDFfilePath = Program.RootPath + "\\\" + \"2.pdf\";
// load the file that would be appended
PDFDocument appendDoc = new PDFDocument(appendedPDFfilePath);

String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
// get PDFDocument object from a source file
PDFDocument doc = new PDFDocument(inputFilePath);
// apply appending
doc.AppendDocument(appendDoc);

// save the PDFDocument
String outputFilePath = Program.RootPath + "\\\" + \"Output.pdf\";
doc.Save(outputFilePath);
```

## Add a page (from a PDF file) to a PDFDocument object

```
// load the PDF file that provides the page object
String resFilePath = Program.RootPath + "\\\" + \"2.pdf\";
PDFDocument resDoc = new PDFDocument(resFilePath);
// get the 1st page in the document
PDFPage page = (PDFPage)resDoc.GetPage(0);

// get PDFDocument object from a source file
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
PDFDocument doc = new PDFDocument(inputFilePath);
// append selected page to the end of the PDFDocument
doc.AddPage(page);

// save the PDFDocument
String outputFilePath = Program.RootPath + "\\\" + \"Output.pdf\";
doc.Save(outputFilePath);
```

## Add pages (from a PDF file) to a PDFDocument object

```
String inputFilePath1 = Program.RootPath + "\\\" + "1.pdf";
String inputFilePath2 = Program.RootPath + "\\\" + "2.pdf";
String outPutFilePath = Program.RootPath + "\\\" + "Output.pdf";

PDFDocument doc1 = new PDFDocument(inputFilePath1);
PDFDocument doc2 = new PDFDocument(inputFilePath2);

// get page 0, page 1 and page 3 from the first document
PDFPage page0 = (PDFPage)doc1.GetPage(0);
PDFPage page1 = (PDFPage)doc1.GetPage(1);
PDFPage page2 = (PDFPage)doc1.GetPage(2);
PDFPage[] pages = new PDFPage[3] { page0, page1, page2 };

// append selected pages to the second document
doc2.AddPages(pages);
// output the new document
doc2.Save(outPutFilePath);
```

## Insert a page (from a PDF file) to a PDFDocument object at specified position

```
String inputFilePath1 = Program.RootPath + "\\\" + "1.pdf";
String inputFilePath2 = Program.RootPath + "\\\" + "2.pdf";
String outPutFilePath = Program.RootPath + "\\\" + "Output.pdf";

PDFDocument doc1 = new PDFDocument(inputFilePath1);
PDFDocument doc2 = new PDFDocument(inputFilePath2);

// get a page from first document
PDFPage page = (PDFPage)doc1.GetPage(0);

int pageIndex = 2;
// insert selected page to the second document at the specified position
doc2.InsertPage(page, pageIndex);
// output the new document
doc2.Save(outPutFilePath);
```

## Insert pages (from a PDF file) to a PDFDocument object at specified position

```
String inputFilePath1 = Program.RootPath + "\\\" + \"1.pdf\";
String inputFilePath2 = Program.RootPath + "\\\" + \"2.pdf\";
String outPutFilePath = Program.RootPath + "\\\" + \"Output.pdf\";

PDFDocument doc1 = new PDFDocument(inputFilePath1);
PDFDocument doc2 = new PDFDocument(inputFilePath2);

// get page 0, page 1 and page 3 from the first document
PDFPage page0 = (PDFPage)doc1.GetPage(0);
PDFPage page1 = (PDFPage)doc1.GetPage(1);
PDFPage page2 = (PDFPage)doc1.GetPage(2);
PDFPage[] pages = new PDFPage[3] { page0, page1, page2 };

int pageIndex = 1;
// insert selected pages to the second document at the specified position
doc2.InsertPages(pages, pageIndex);
// output the new document
doc2.Save(outPutFilePath);
```

## Insert an empty page to a PDFDocument object at specified position

```
// get PDFDocument object from a file
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
PDFDocument doc = new PDFDocument(inputFilePath);

// insert an empty page (with default page size) after the 2nd page
doc.InsertPage(2);

// save the PDFDocument object to a file
String outPutFilePath = Program.RootPath + "\\\" + \"Output.pdf\";
doc.Save(outPutFilePath);
```

## Replace a page (in a PDFDocument object) by a page object

C#

```
// load the PDF file that provides the page object
String resFilePath = Program.RootPath + "\\\" + \"2.pdf\";
PDFDocument resDoc = new PDFDocument(resFilePath);
// get the 1st page in the document
PDFPage page = (PDFPage)resDoc.GetPage(0);

// get PDFDocument object from a source file
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
PDFDocument doc = new PDFDocument(inputFilePath);
// replace the 3rd page by the PDFPage object
int pageIndex = 2;
doc.UpdatePage(page, pageIndex);

// save the PDFDocument
String outputFilePath = Program.RootPath + "\\\" + \"Output.pdf\";
doc.Save(outputFilePath);
```

VB

```
' load the PDF file that provides the page object
Dim resFilePath As String = Program.RootPath + "\\\" + \"2.pdf\"
Dim resDoc As PDFDocument = New PDFDocument(resFilePath)
' get the 1st page in the document
Dim page As PDFPage = resDoc.GetPage(0)

' get PDFDocument object from a source file
Dim inputFilePath As String = Program.RootPath + "\\\" + \"1.pdf\"
Dim doc As PDFDocument = New PDFDocument(inputFilePath)
' replace the 3rd page by the PDFPage object
Dim pageIndex As Integer = 2
doc.UpdatePage(page, pageIndex)

' save the PDFDocument
Dim outputFilePath As String = Program.RootPath + "\\\" + \"Output.pdf\"
doc.Save(outputFilePath)
```



## Delete a page in a PDFDocument object at specified position

```
// get PDFDocument object from a source file
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
PDFDocument doc = new PDFDocument(inputFilePath);

// delete the 3rd page
int pageIndex = 2;
doc.DeletePage(pageIndex);

// save the PDFDocument
String outputFilePath = Program.RootPath + "\\\" + \"Output.pdf\";
doc.Save(outputFilePath);
```

## Delete consecutive pages in a PDFDocument object

```
// get PDFDocument object from a source file
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
PDFDocument doc = new PDFDocument(inputFilePath);

// delete consecutive 3 pages from the 2nd page
int pageIndex = 1;
int pageCount = 3;
doc.DeletePages(pageIndex, pageCount);

// save the PDFDocument
String outputFilePath = Program.RootPath + "\\\" + \"Output.pdf\";
doc.Save(outputFilePath);
```

## Delete pages in a PDFDocument object

```
// get PDFDocument object from a source file
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
PDFDocument doc = new PDFDocument(inputFilePath);

// delete 5 pages by their page indexes
int[] pageIndexes = new int[] { 1, 3, 5, 7, 9 };
//delete pages
doc.DeletePages(pageIndexes);

// save the PDFDocument
String outputFilePath = Program.RootPath + "\\\" + \"Output.pdf\";
doc.Save(outputFilePath);
```

## Reorder all pages in a PDFDocument object

```
// get PDFDocument object from a source file
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
PDFDocument doc = new PDFDocument(inputFilePath);

// show page count of the document
int pageCount = doc.GetPageCount();
Console.WriteLine(\"Page Count: \" + pageCount);

// define the new order for all pages
// 1. the length of the array MUST BE equal to pageCount
// 2. each page index SHOULD be in the array and only once
// otherwise, the method would throw exception
int[] pageOrders = new int[] { 1, 3, 0, 5, 4, 6, 2 };
doc.SortPage(pageOrders);

// save the PDFDocument
String outputFilePath = Program.RootPath + "\\\" + \"Output.pdf\";
doc.Save(outputFilePath);
```

## Swap two pages in a PDFDocument object

```
// get PDFDocument object from a source file
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
PDFDocument doc = new PDFDocument(inputFilePath);

// swap two pages in the document
int pageIndex1 = 0; // the first page
int pageIndex2 = 1; // the second page
doc.SwapTwoPages(pageIndex1, pageIndex2);

// save the PDFDocument
String outputFilePath = Program.RootPath + "\\\" + \"Output.pdf\";
doc.Save(outputFilePath);
```

## Extract pages from a PDFDocument object

```
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
String outputFilePath = Program.RootPath + "\\\" + \"Output.pdf\";

PDFDocument doc = new PDFDocument(inputFilePath);

// extract pages by page indexes
int[] pageindexes = new int[] { 1, 2, 4 };
doc.ExtractPages(pageindexes, outputFilePath);
```

## Duplicate a page from a PDFDocument object

```
// get PDFDocument object from a source file
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
PDFDocument doc = new PDFDocument(inputFilePath);

// duplicate the second page in the document
int pageIndex = 1;
PDFPage page = (PDFPage)doc.DuplicatePage(pageIndex);

// do something ...
```

## Extract pages (in a PDFDocument object) to build a new PDFDocument object

```
// get PDFDocument object from a source file
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
PDFDocument doc = new PDFDocument(inputFilePath);

// select pages
List<int> pageIndexes = new List<int>();
pageIndexes.Add(2); // the 3rd page
pageIndexes.Add(0); // the 1st page
pageIndexes.Add(3); // the 4th page
// create the new document with 3 pages
PDFDocument newDoc = (PDFDocument)doc.GetMultiDocument(pageIndexes);

// save the PDFDocument
String outputFilePath = Program.RootPath + "\\\" + \"Output.pdf\";
newDoc.Save(outputFilePath);
```

## Merge two PDFDocument objects

Merge two documents to a new document:

```
// get PDFDocument object from one file
String inputFilePath1 = Program.RootPath + "\\\" + \"1.pdf\";
PDFDocument doc1 = new PDFDocument(inputFilePath1);
// get PDFDocument object from another file
String inputFilePath2 = Program.RootPath + "\\\" + \"2.pdf\";
PDFDocument doc2 = new PDFDocument(inputFilePath2);

// merge two documents to a new document
PDFDocument newDoc = (PDFDocument)doc1.MergeDocument(doc2);

// ave the new document
String outputFilePath = Program.RootPath + "\\\" + \"Output.pdf\";
newDoc.Save(outputFilePath);
```

Append another document:

```
// get PDFDocument object from one file
String inputFilePath1 = Program.RootPath + "\\\" + \"1.pdf\";
PDFDocument doc1 = new PDFDocument(inputFilePath1);
// get PDFDocument object from another file
String inputFilePath2 = Program.RootPath + "\\\" + \"2.pdf\";
PDFDocument doc2 = new PDFDocument(inputFilePath2);

// append the 2nd document
doc1.AppendDocument(doc2);

// save the document
String outputFilePath = Program.RootPath + "\\\" + \"Output.pdf\";
doc1.Save(outputFilePath);
```

## Add an empty page to a PDF file

Output to a new file

```
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
String outputFilePath = Program.RootPath + "\\\" + \"Output.pdf\";
int pageIndex = 0;
// insert an empty page before the first page
PDFDocument.AddEmptyPage(inputFilePath, pageIndex, outputFilePath);
```

Overwrite the original file

```
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
String outputFilePath = Program.RootPath + "\\\" + \"Output.pdf\";
int pageIndex = 0;
// insert an empty page before the first page
PDFDocument.AddEmptyPage(inputFilePath, pageIndex);
```

## Add empty pages to a PDF file with the specified start page index and count

```
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
String outputFilePath = Program.RootPath + "\\\" + \"Output.pdf\";
int startPageIndex = 1;
int numberOfPages = 5;
// insert 5 empty pages after first page
PDFDocument.AddEmptyPages(inputFilePath, startPageIndex, numberOfPages);
```

## Delete pages in a PDF file

Output to a new file

```
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
String outputFilePath = Program.RootPath + "\\\" + \"Output.pdf\";
int[] pageIndexes = new int[3] { 0, 2, 3 };
// delete page 0, page 2 and page 3 from the file
PDFDocument.DeleteDocumentPages(inputFilePath, pageIndexes, outputFilePath);
```

Overwrite the original file

```
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
int[] pageIndexes = new int[3] { 0, 2, 3 };
// delete page 0, page 2 and page 3 from the file
PDFDocument.DeleteDocumentPages(inputFilePath, pageIndexes);
```

## Delete consecutive pages in a PDF file with the specified start page index and count

```
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
int startPageIndex = 0;
int pageCount = 2;
// delete first two pages
PDFDocument.DeleteDocumentPages(inputFilePath, startPageIndex, pageCount);
```

## Extract pages from a file to generate a new file

Output to a new file

```
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
String outputFilePath = Program.RootPath + "\\\" + \"Output.pdf\";
int[] pageIndexes = new int[4] { 1, 0, 2, 3 };
// reform a new PDF document with 4 pages
PDFDocument.ExtractDocument(inputFilePath, pageIndexes, outputFilePath);
```

Overwrite the original file

```
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
int[] pageIndexes = new int[4] { 1, 0, 2, 3 };
// reform a new PDF document with 4 pages
PDFDocument.ExtractDocument(inputFilePath, pageIndexes);
```

## Rotate all pages in a PDF file

Output to a new file

```
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
String outputFilePath = Program.RootPath + "\\\" + \"Output.pdf\";
// Rotate 180 in clockwise
int rotateInDegree = 180;
// rotate all pages
PDFDocument.RotateAllPages(inputFilePath, rotateInDegree, outputFilePath);
```

Overwrite the original file

```
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
// Rotate 90 in clockwise
int rotateInDegree = 90;
// rotate all pages
PDFDocument.RotateAllPages(inputFilePath, rotateInDegree);
```

## Rotate a specified page in a PDF file

Output to a new file

```
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
String outputFilePath = Program.RootPath + "\\\" + \"Output.pdf\";
int pageIndex = 0;
// Rotate 180 in clockwise
int rotateInDegree = 180;
// rotate the first page
PDFDocument.RotatePage(inputFilePath, pageIndex, rotateInDegree, outputFilePath);
```



Overwrite the original file

```
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
int pageIndex = 0;
// Rotate 270 in clockwise
int rotateInDegree = 270;
// rotate the first page
PDFDocument.RotatePage(inputFilePath, pageIndex, rotateInDegree);
```

## Create an empty PDF file

```
String outputFile = Program.RootPath + "\\\" + \"output.pdf\";

// create a PDF file with three empty pages
PDFDocument.CreatePDFFile(outputFile, 3);
```

## Create an empty PDF document object

```
String outputFile = Program.RootPath + "\\\" + \"output.pdf\";

// Create a PDF Document object with 2 blank pages
PDFDocument doc = PDFDocument.Create(2);

// Save the new created PDF document into file
doc.Save(outputFile);
```

## Duplicate pages from a PDFDocument object

```
// get a PDFDocument object
String inputFilePath1 = Program.RootPath + "\\\" + \"1.pdf\";
PDFDocument doc1 = new PDFDocument(inputFilePath1);
// get another PDFDocument object
String inputFilePath2 = Program.RootPath + "\\\" + \"2.pdf\";
PDFDocument doc2 = new PDFDocument(inputFilePath2);

// duplicate the 2nd page, 3rd page and 5th page from the first document
int[] pageIndexes = new int[] { 1, 2, 4 };
BasePage[] pages = doc1.DuplicatePages(pageIndexes);

// insert pages to the second document at the specified position
int pageIndex = 2;
doc2.InsertPages(pages, pageIndex);

// output the new document
String outputFilePath = Program.RootPath + "\\\" + \"output.pdf\";
doc2.Save(outputFilePath);
```

## Move a page to specified position

```
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";
String outputFilePath = Program.RootPath + "\\\" + \"Output.pdf\";

// load the PDF file
PDFDocument doc = new PDFDocument(inputFilePath);

// move the 2nd page in the file
int moveFrom = 1;
// to the 6th position in the file
int moveTo = 5;
// move the page
doc.MovePage(moveFrom, moveTo);

// output the document
doc.Save(outputFilePath);
```

## Split file by number of pages

```
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";

// set split option
SplitOptions options = new SplitOptions(SplitMode.ByPage);
// limit the pages of each file to 8 pages
options.MaxPages = 8;
// set output option
SplitOptions outputOps = new SplitOutputOptions();
outputOps.OutputFolder = Program.RootPath;
outputOps.Mode = 2;
outputOps.Label = @"Part";
outputOps.Separator = '_';
// split a PDF file with options
PDFDocument.SplitDocument(inputFilePath, options, outputOps);
```

## Split file by output file size

```
String inputFilePath = Program.RootPath + "\\\" + \"1.pdf\";

// set split option
SplitOptions options = new SplitOptions(SplitMode.BySize);
// limit the size of each file to 0.1M bytes
options.MaxSize = 0.1F;
// set output option
SplitOptions outputOps = new SplitOutputOptions();
outputOps.OutputFolder = Program.RootPath;
outputOps.Mode = 2;
outputOps.Label = @"Part";
outputOps.Separator = '_';
// split a PDF file with options
PDFDocument.SplitDocument(inputFilePath, options, outputOps);
```

## Split file by bookmark

```
String inputFilePath = Program.RootPath + "\\\" + \"2.pdf\";

// set split option
SplitOptions options = new SplitOptions(SplitMode.ByBookMark);
// set output option
SplitOptions outputOps = new SplitOutputOptions();
outputOps.OutputFolder = Program.RootPath;
outputOps.Mode = 2;
outputOps.Label = @\"Part\";
outputOps.Separator = '_';
// split a PDF file with options
PDFDocument.SplitDocument(inputFilePath, options, outputOps);
```

## Create a PDF file from Bitmap object(s)

```
C#
String imageFilePath = Program.RootPath + "\\\" + \"1.png\";
String outputFile = Program.RootPath + "\\\" + \"output.pdf\";

// load image
Bitmap bitmap = new Bitmap(imageFilePath);

ImageToPDFSetting settings = new ImageToPDFSetting();
// page size is same as the image size
settings.PageSize = SizeF.Empty;
// use JBIG2 filter to compress monochrome image
settings.MonochromeCompression = PDFCompression.JBIG2Decode;
// use Flate filter to compress grayscale image
settings.GrayscaleCompression = PDFCompression.FlateDecode;
// use DCT filter to compress color image
settings.ColorCompression = PDFCompression.DCTDecode;
// select quality level for DCT filter
settings.JPEGImageQualityLevel = JPEGImageQualityLevel.Highest;

// create document
PDFDocument doc = PDFDocument.Create(bitmap, settings);

// Save the new created PDF document into file
doc.Save(outputFile);
```

VB

C#

```
String[] imageFilePathes = new String[] {  
    Program.RootPath + "\\\" + \"1.png\",  
    Program.RootPath + "\\\" + \"Test1bpp.bmp\",  
    Program.RootPath + "\\\" + \"Test8bppGrayScale.bmp\",  
    Program.RootPath + "\\\" + \"Test24bpp.bmp\"  
};  
String outputFile = Program.RootPath + "\\\" + \"output.pdf\";  
  
// load images  
Bitmap[] bitmaps = new Bitmap[imageFilePathes.Length];  
for (int i = 0; i < imageFilePathes.Length; i++)  
{  
    bitmaps[i] = new Bitmap(imageFilePathes[i]);  
}  
  
ImageToPDFSetting settings = new ImageToPDFSetting();  
// set page size to 16 inches * 12 inches  
settings.PageSize = new.SizeF(16F, 12F);  
// use JBIG2 filter to compress monochrome image  
settings.MonochromeCompression = PDFCompression.JBIG2Decode;  
// use Flate filter to compress grayscale image  
settings.GrayscaleCompression = PDFCompression.FlateDecode;  
// use DCT filter to compress color image  
settings.ColorCompression = PDFCompression.DCTDecode;  
// select quality level for DCT filter  
settings.JPEGImageQualityLevel = JPEGImageQualityLevel.Highest;  
  
// create document  
PDFDocument doc = PDFDocument.Create(bitmaps, settings);  
  
// Save the new created PDF document into file  
doc.Save(outputFile);
```

VB