[【使用Itext处理PDF文档（新建PDF文件、修改PDF文件、PDF中插入图片、将PDF文件转换为图片）】](http://www.cnblogs.com/tankqiu/p/4251561.html)

**iText简介**

iText是著名的开放源码的站点sourceforge一个项目，是用于生成PDF文档的一个java类库。通过iText不仅可以生成PDF或rtf的文档，而且可以将XML、Html文件转化为PDF文件。 iText的安装非常方便，下载iText.jar文件后，只需要在系统的CLASSPATH中加入iText.jar的路径，在程序中就可以使用iText类库了。

1、包的引用

[复制代码](javascript:void(0);)

1 import java.io.FileNotFoundException;

2 import java.io.FileOutputStream;

3 import java.io.IOException;

4 import java.net.MalformedURLException;

5 import com.itextpdf.text.Document;

6 import com.itextpdf.text.DocumentException;

7 import com.itextpdf.text.Element;

8 import com.itextpdf.text.Font;

9 import com.itextpdf.text.Font.FontFamily;

10 import com.itextpdf.text.Image;

11 import com.itextpdf.text.PageSize;

12 import com.itextpdf.text.Paragraph;

13 import com.itextpdf.text.Phrase;

14 import com.itextpdf.text.pdf.BaseFont;

15 import com.itextpdf.text.pdf.ColumnText;

16 import com.itextpdf.text.pdf.PdfContentByte;

17 import com.itextpdf.text.pdf.PdfReader;

18 import com.itextpdf.text.pdf.PdfStamper;

19 import com.itextpdf.text.pdf.PdfWriter;

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2、创建PDF文件

[复制代码](javascript:void(0);)

1 public void createPDF()

2 {

3 try

4 {

5 String RESULT = "F:\\java56班\\eclipse-SDK-4.2-win32\\pdfiText.pdf";

6 Document document = new Document();

7 PdfWriter writer = PdfWriter.getInstance(document,

8 new FileOutputStream(RESULT));

9 document.open();

10 PdfContentByte canvas = writer.getDirectContentUnder();

11 writer.setCompressionLevel(0);

12 canvas.saveState(); // q

13 canvas.beginText(); // BT

14 canvas.moveText(36, 788); // 36 788 Td

15 canvas.setFontAndSize(BaseFont.createFont(), 12); // /F1 12 Tf

16 // canvas.showText("Hello World"); // (Hello World)Tj

17 canvas.showText("你好"); // (Hello World)Tj

18 canvas.endText(); // ET

19 canvas.restoreState(); // Q

20 document.close();

21 } catch (FileNotFoundException e)

22 {

23 // TODO Auto-generated catch block

24 e.printStackTrace();

25 } catch (DocumentException e)

26 {

27 // TODO Auto-generated catch block

28 e.printStackTrace();

29 } catch (IOException e)

30 {

31 // TODO Auto-generated catch block

32 e.printStackTrace();

33 }

34 }

35

36 public void createPDF2()

37 {

38 try

39 {

40 String RESULT = "F:\\java56班\\eclipse-SDK-4.2-win32\\pdfiText.pdf";

41 Document document = new Document();

42 PdfWriter writer = PdfWriter.getInstance(document,

43 new FileOutputStream(RESULT));

44 document.open();

45 writer.setCompressionLevel(0);

46 // Phrase hello = new Phrase("Hello World");

47 Phrase hello = new Phrase("你好");

48 PdfContentByte canvas = writer.getDirectContentUnder();

49 ColumnText.showTextAligned(canvas, Element.ALIGN\_LEFT, hello, 200,

50 800, 0);

51 document.close();

52 } catch (FileNotFoundException e)

53 {

54 // TODO Auto-generated catch block

55 e.printStackTrace();

56 } catch (DocumentException e)

57 {

58 // TODO Auto-generated catch block

59 e.printStackTrace();

60 }

61 }

62

63 public void createPDF3()

64 {

65 try

66 {

67 String resource\_jpg = "F:\\java56班\\eclipse-SDK-4.2-win32\\1.png";//

68 String RESULT = "F:\\java56班\\eclipse-SDK-4.2-win32\\pdfiText.pdf";

69 Paragraph p = new Paragraph("Foobar Film Festival", new Font(FontFamily.HELVETICA, 24));

70 p.setAlignment(Element.ALIGN\_CENTER);

71 Document document = new Document();//

72 PdfWriter writer = PdfWriter.getInstance(document,new FileOutputStream(RESULT));

73 document.open();

74 document.add(p);

75 Image img = Image.getInstance(resource\_jpg);

76 img.setAbsolutePosition(

77 (PageSize.POSTCARD.getWidth() - img.getScaledWidth()) / 2,

78 (PageSize.POSTCARD.getHeight() - img.getScaledHeight()) / 2);

79

80 // img.setAbsolutePosition(0, 0);

81 document.add(img);

82 document.newPage();

83 document.add(p);

84 document.add(img);

85 PdfContentByte over = writer.getDirectContent();

86 over.saveState();

87 float sinus = (float) Math.sin(Math.PI / 60);

88 float cosinus = (float) Math.cos(Math.PI / 60);

89 BaseFont bf = BaseFont.createFont();

90 over.beginText();

91 over.setTextRenderingMode(PdfContentByte.TEXT\_RENDER\_MODE\_FILL\_STROKE);

92 over.setLineWidth(1.5f);

93 over.setRGBColorStroke(0xFF, 0x00, 0x00);

94 over.setRGBColorFill(0xFF, 0xFF, 0xFF);

95 over.setFontAndSize(bf, 36);

96 over.setTextMatrix(cosinus, sinus, -sinus, cosinus, 50, 324);

97 over.showText("SOLD OUT");

98 over.endText();

99 over.restoreState();

100 PdfContentByte under = writer.getDirectContentUnder();

101 under.saveState();

102 under.setRGBColorFill(0xFF, 0xD7, 0x00);

103 under.rectangle(5, 5, PageSize.POSTCARD.getWidth() - 10,

104 PageSize.POSTCARD.getHeight() - 10);

105 under.fill();

106 under.restoreState();

107

108 document.close();

109 } catch (FileNotFoundException e)

110 {

111 // TODO Auto-generated catch block

112 e.printStackTrace();

113 } catch (DocumentException e)

114 {

115 // TODO Auto-generated catch block

116 e.printStackTrace();

117 } catch (MalformedURLException e)

118 {

119 // TODO Auto-generated catch block

120 e.printStackTrace();

121 } catch (IOException e)

122 {

123 // TODO Auto-generated catch block

124 e.printStackTrace();

125 }

126 }

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3、在绝对位置插入图片

[复制代码](javascript:void(0);)

1 public void addImageAbsolu()

2 {

3 try

4 {

5 String resource\_jpg = "F:\\java56班\\eclipse-SDK-4.2-win32\\1.png";//

6 String RESULT = "F:\\java56班\\eclipse-SDK-4.2-win32\\pdfiText.pdf";

7 Document document = new Document();

8 PdfWriter writer = PdfWriter.getInstance(document,new FileOutputStream(RESULT));

9 document.open();

10 // PDPage page = (PDPage)doc.getDocumentCatalog().getAllPages().get( 0 );

11 Image img = Image.getInstance(resource\_jpg);

12 img.setAbsolutePosition(

13 (PageSize.POSTCARD.getWidth() - img.getScaledWidth()) / 2,

14 (PageSize.POSTCARD.getHeight() - img.getScaledHeight()) / 2);

15

16 // img.setAbsolutePosition(0, 0);

17 document.add(img);

18 document.close();

19 } catch (FileNotFoundException e)

20 {

21 // TODO Auto-generated catch block

22 e.printStackTrace();

23 } catch (DocumentException e)

24 {

25 // TODO Auto-generated catch block

26 e.printStackTrace();

27 } catch (MalformedURLException e)

28 {

29 // TODO Auto-generated catch block

30 e.printStackTrace();

31 } catch (IOException e)

32 {

33 // TODO Auto-generated catch block

34 e.printStackTrace();

35 }

36 }

37

38 public void addImageAbsolu2()

39 {

40 try

41 {

42 String resource\_jpg = "F:\\java56班\\eclipse-SDK-4.2-win32\\1.png";//

43 String result = "F:\\java56班\\eclipse-SDK-4.2-win32\\pdfiText.pdf";

44 String result2 = "F:\\java56班\\eclipse-SDK-4.2-win32\\pdfiText2.pdf";

45 //创建一个pdf读入流

46 PdfReader reader = new PdfReader(result);

47 //根据一个pdfreader创建一个pdfStamper.用来生成新的pdf.

48 PdfStamper stamper = new PdfStamper(reader,new FileOutputStream(result2));

49 //获得pdfstamper在当前页的上层打印内容.也就是说 这些内容会覆盖在原先的pdf内容之上.

50 PdfContentByte over = stamper.getOverContent(0);

51

52

53 Document document = new Document();

54 PdfWriter writer = PdfWriter.getInstance(document,new FileOutputStream(result));

55 document.open();

56 // PDPage page = (PDPage)doc.getDocumentCatalog().getAllPages().get( 0 );

57 Image img = Image.getInstance(resource\_jpg);

58 img.setAbsolutePosition(0, 0);

59 document.add(img);

60 document.close();

61 } catch (FileNotFoundException e)

62 {

63 // TODO Auto-generated catch block

64 e.printStackTrace();

65 } catch (DocumentException e)

66 {

67 // TODO Auto-generated catch block

68 e.printStackTrace();

69 } catch (MalformedURLException e)

70 {

71 // TODO Auto-generated catch block

72 e.printStackTrace();

73 } catch (IOException e)

74 {

75 // TODO Auto-generated catch block

76 e.printStackTrace();

77 }

78 }

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4、PDF文件转换为图片

[复制代码](javascript:void(0);)

package demo1;

import java.awt.image.BufferedImage;

import java.io.ByteArrayInputStream;

import java.io.ByteArrayOutputStream;

import java.io.FileOutputStream;

import java.io.OutputStream;

import javax.imageio.ImageIO;

import javax.imageio.stream.ImageOutputStream;

import org.apache.pdfbox.pdmodel.PDDocument;

import org.apache.pdfbox.pdmodel.PDPage;

import org.apache.pdfbox.util.ImageIOUtil;

import com.itextpdf.text.pdf.PdfReader;

import com.itextpdf.text.pdf.PdfStamper;

public class PdfPageToImg

{

/\*\*

\* PDFBOX转图片

\*

\* @param pdfUrl

\* pdf的路径

\* @param imgTempUrl

\* 图片输出路径

\*/

public static void pdfToImage(String pdfUrl, String imgTempUrl)

{

try

{

// 读入PDF

PdfReader pdfReader = new PdfReader(pdfUrl);

// 计算PDF页码数

int pageCount = pdfReader.getNumberOfPages();

// 循环每个页码

for (int i = pageCount; i >= pdfReader.getNumberOfPages(); i--)

{

ByteArrayOutputStream out = new ByteArrayOutputStream();

PdfStamper pdfStamper = null;

PDDocument pdDocument = null;

pdfReader = new PdfReader(pdfUrl);

pdfReader.selectPages(String.valueOf(i));

pdfStamper = new PdfStamper(pdfReader, out);

pdfStamper.close();

// 利用PdfBox生成图像

pdDocument = PDDocument.load(new ByteArrayInputStream(out

.toByteArray()));

OutputStream outputStream = new FileOutputStream(imgTempUrl

+ "ImgName" + "-" + i + ".bmp");

ImageOutputStream output = ImageIO

.createImageOutputStream(outputStream);

PDPage page = (PDPage) pdDocument.getDocumentCatalog()

.getAllPages().get(0);

BufferedImage image = page.convertToImage(

BufferedImage.TYPE\_INT\_RGB, 96);

ImageIOUtil.writeImage(image, "bmp", outputStream, 96);

if (output != null)

{

output.flush();

output.close();

}

pdDocument.close();

}

} catch (Exception e)

{

e.printStackTrace();

}

}

public static void main(String[] args)

{

String pdfUrl = "F:\\java56班\\eclipse-SDK-4.2-win32\\iText入门基础教程[2].pdf";

String imgTempUrl = "F:\\java56班\\eclipse-SDK-4.2-win32\\img\\";

pdfToImage(pdfUrl, imgTempUrl);

}

}

[复制代码](javascript:void(0);)

5、图片集转换为PDF文件

[复制代码](javascript:void(0);)

1 package demo1;

2

3 import java.io.File;

4 import java.io.FileOutputStream;

5 import java.io.IOException;

6 import com.itextpdf.text.Document;

7 import com.itextpdf.text.DocumentException;

8 import com.itextpdf.text.Image;

9 import com.itextpdf.text.Rectangle;

10 import com.itextpdf.text.pdf.PdfWriter;

11

12 public class ImgToPDF

13 {

14

15 /\*\*

16 \*

17 \* @param destPath

18 \* 生成pdf文件的路劲

19 \* @param images

20 \* 需要转换的图片路径的数组

21 \* @throws IOException

22 \* @throws DocumentException

23 \*/

24 public static void imagesToPdf(String destPath, String imagesPath)

25 {

26 try

27 {

28 // 第一步：创建一个document对象。

29 Document document = new Document();

30 document.setMargins(0, 0, 0, 0);

31 // 第二步：

32 // 创建一个PdfWriter实例，

33 PdfWriter.getInstance(document, new FileOutputStream(destPath));

34 // 第三步：打开文档。

35 document.open();

36 // 第四步：在文档中增加图片。

37 File files = new File(imagesPath);

38 String[] images = files.list();

39 int len = images.length;

40

41 for (int i = 0; i < len; i++)

42 {

43 if (images[i].toLowerCase().endsWith(".bmp"))

44 {

45 String temp = imagesPath + "\\" + images[i];

46 Image img = Image.getInstance(temp);

47 img.setAlignment(Image.ALIGN\_CENTER);

48 // 根据图片大小设置页面，一定要先设置页面，再newPage（），否则无效

49 document.setPageSize(new Rectangle(img.getWidth(), img

50 .getHeight()));

51 document.newPage();

52 document.add(img);

53 }

54 }

55 // 第五步：关闭文档。

56 document.close();

57 } catch (Exception e)

58 {

59 // TODO Auto-generated catch block

60 e.printStackTrace();

61 }

62 }

63

64 public static void main(String[] args)

65 {

66 String destPath = "F:\\java56班\\eclipse-SDK-4.2-win32\\img\\imagesToPdf.pdf";

67 String imagesPath = "F:\\java56班\\eclipse-SDK-4.2-win32\\img\\";

68 imagesToPdf(destPath, imagesPath);

69 }

70

71 }

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