[**iText生成PDF文件入门**](http://piperzero.iteye.com/blog/1660540)

iText是著名的开放项目，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。  
  
<http://itextpdf.com/>  
  
版本：itextpdf-5.2.1.jar   
  
**1、生成一个PDF**

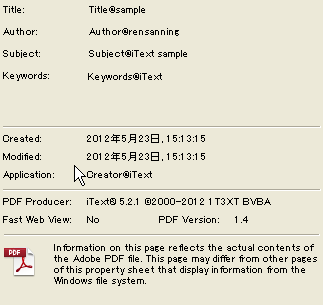
Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. //Step1—CreateaDocument.
2. Documentdocument=newDocument();
3. //Step2—GetaPdfWriterinstance.
4. PdfWriter.getInstance(document,newFileOutputStream(FILE\_DIR+"createSamplePDF.pdf"));
5. //Step3—OpentheDocument.
6. document.open();
7. //Step4—Addcontent.
8. document.add(newParagraph("HelloWorld"));
9. //Step5—ClosetheDocument.
10. document.close();

**2、页面大小,页面背景色,页边空白,Title,Author,Subject,Keywords**

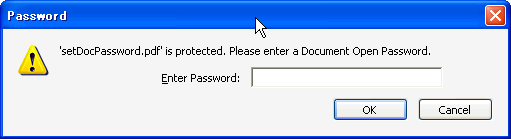
Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. //页面大小
2. Rectanglerect=newRectangle(PageSize.B5.rotate());
3. //页面背景色
4. rect.setBackgroundColor(BaseColor.ORANGE);
5. Documentdoc=newDocument(rect);
6. PdfWriterwriter=PdfWriter.getInstance(doc,out);
7. //PDF版本(默认1.4)
8. writer.setPdfVersion(PdfWriter.PDF\_VERSION\_1\_2);
9. //文档属性
10. doc.addTitle("Title@sample");
11. doc.addAuthor("Author@rensanning");
12. doc.addSubject("Subject@iTextsample");
13. doc.addKeywords("Keywords@iText");
14. doc.addCreator("Creator@iText");
15. //页边空白
16. doc.setMargins(10,20,30,40);
17. doc.open();
18. doc.add(newParagraph("HelloWorld"));

  
  
**3、设置密码**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. PdfWriterwriter=PdfWriter.getInstance(doc,out);
2. //设置密码为："World"
3. writer.setEncryption("Hello".getBytes(),"World".getBytes(),
4. PdfWriter.ALLOW\_SCREENREADERS,
5. PdfWriter.STANDARD\_ENCRYPTION\_128);
6. doc.open();
7. doc.add(newParagraph("HelloWorld"));

  
  
**4、添加Page**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. document.open();
2. document.add(newParagraph("Firstpage"));
3. document.add(newParagraph(Document.getVersion()));
4. document.newPage();
5. writer.setPageEmpty(false);
6. document.newPage();
7. document.add(newParagraph("Newpage"));

**5、添加水印(背景图)**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. //图片水印
2. PdfReaderreader=newPdfReader(FILE\_DIR+"setWatermark.pdf");
3. PdfStamperstamp=newPdfStamper(reader,newFileOutputStream(FILE\_DIR
4. +"setWatermark2.pdf"));
5. Imageimg=Image.getInstance("resource/watermark.jpg");
6. img.setAbsolutePosition(200,400);
7. PdfContentByteunder=stamp.getUnderContent(1);
8. under.addImage(img);
9. //文字水印
10. PdfContentByteover=stamp.getOverContent(2);
11. over.beginText();
12. BaseFontbf=BaseFont.createFont(BaseFont.HELVETICA,BaseFont.WINANSI,
13. BaseFont.EMBEDDED);
14. over.setFontAndSize(bf,18);
15. over.setTextMatrix(30,30);
16. over.showTextAligned(Element.ALIGN\_LEFT,"DUPLICATE",230,430,45);
17. over.endText();
18. //背景图
19. Imageimg2=Image.getInstance("resource/test.jpg");
20. img2.setAbsolutePosition(0,0);
21. PdfContentByteunder2=stamp.getUnderContent(3);
22. under2.addImage(img2);
23. stamp.close();
24. reader.close();

**6、插入Chunk, Phrase, Paragraph, List**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. //Chunk对象:aString,aFont,andsomeattributes
2. document.add(newChunk("China"));
3. document.add(newChunk(""));
4. Fontfont=newFont(Font.FontFamily.HELVETICA,6,Font.BOLD,BaseColor.WHITE);
5. Chunkid=newChunk("chinese",font);
6. id.setBackground(BaseColor.BLACK,1f,0.5f,1f,1.5f);
7. id.setTextRise(6);
8. document.add(id);
9. document.add(Chunk.NEWLINE);
10. document.add(newChunk("Japan"));
11. document.add(newChunk(""));
12. Fontfont2=newFont(Font.FontFamily.HELVETICA,6,Font.BOLD,BaseColor.WHITE);
13. Chunkid2=newChunk("japanese",font2);
14. id2.setBackground(BaseColor.BLACK,1f,0.5f,1f,1.5f);
15. id2.setTextRise(6);
16. id2.setUnderline(0.2f,-2f);
17. document.add(id2);
18. document.add(Chunk.NEWLINE);
19. //Phrase对象:aListofChunkswithleading
20. document.newPage();
21. document.add(newPhrase("Phrasepage"));
22. Phrasedirector=newPhrase();
23. Chunkname=newChunk("China");
24. name.setUnderline(0.2f,-2f);
25. director.add(name);
26. director.add(newChunk(","));
27. director.add(newChunk(""));
28. director.add(newChunk("chinese"));
29. director.setLeading(24);
30. document.add(director);
31. Phrasedirector2=newPhrase();
32. Chunkname2=newChunk("Japan");
33. name2.setUnderline(0.2f,-2f);
34. director2.add(name2);
35. director2.add(newChunk(","));
36. director2.add(newChunk(""));
37. director2.add(newChunk("japanese"));
38. director2.setLeading(24);
39. document.add(director2);
40. //Paragraph对象:aPhrasewithextrapropertiesandanewline
41. document.newPage();
42. document.add(newParagraph("Paragraphpage"));
43. Paragraphinfo=newParagraph();
44. info.add(newChunk("China"));
45. info.add(newChunk("chinese"));
46. info.add(Chunk.NEWLINE);
47. info.add(newPhrase("Japan"));
48. info.add(newPhrase("japanese"));
49. document.add(info);
50. //List对象:asequenceofParagraphscalledListItem
51. document.newPage();
52. Listlist=newList(List.ORDERED);
53. for(inti=0;i<10;i++){
54. ListItemitem=newListItem(String.format("%s:%dmovies",
55. "country"+(i+1),(i+1)\*100),newFont(
56. Font.FontFamily.HELVETICA,6,Font.BOLD,BaseColor.WHITE));
57. Listmovielist=newList(List.ORDERED,List.ALPHABETICAL);
58. movielist.setLowercase(List.LOWERCASE);
59. for(intj=0;j<5;j++){
60. ListItemmovieitem=newListItem("Title"+(j+1));
61. Listdirectorlist=newList(List.UNORDERED);
62. for(intk=0;k<3;k++){
63. directorlist.add(String.format("%s,%s","Name1"+(k+1),
64. "Name2"+(k+1)));
65. }
66. movieitem.add(directorlist);
67. movielist.add(movieitem);
68. }
69. item.add(movielist);
70. list.add(item);
71. }
72. document.add(list);

**7、插入Anchor, Image, Chapter, Section**

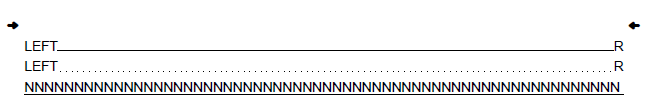
Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. //Anchor对象:internalandexternallinks
2. Paragraphcountry=newParagraph();
3. Anchordest=newAnchor("china",newFont(Font.FontFamily.HELVETICA,14,Font.BOLD,BaseColor.BLUE));
4. dest.setName("CN");
5. dest.setReference("http://www.china.com");//external
6. country.add(dest);
7. country.add(String.format(":%dsites",10000));
8. document.add(country);
9. document.newPage();
10. AnchortoUS=newAnchor("Gotofirstpage.",newFont(Font.FontFamily.HELVETICA,14,Font.BOLD,BaseColor.BLUE));
11. toUS.setReference("#CN");//internal
12. document.add(toUS);
13. //Image对象
14. document.newPage();
15. Imageimg=Image.getInstance("resource/test.jpg");
16. img.setAlignment(Image.LEFT|Image.TEXTWRAP);
17. img.setBorder(Image.BOX);
18. img.setBorderWidth(10);
19. img.setBorderColor(BaseColor.WHITE);
20. img.scaleToFit(1000,72);//大小
21. img.setRotationDegrees(-30);//旋转
22. document.add(img);
23. //Chapter,Section对象（目录）
24. document.newPage();
25. Paragraphtitle=newParagraph("Title");
26. Chapterchapter=newChapter(title,1);
27. title=newParagraph("SectionA");
28. Sectionsection=chapter.addSection(title);
29. section.setBookmarkTitle("bmk");
30. section.setIndentation(30);
31. section.setBookmarkOpen(false);
32. section.setNumberStyle(
33. Section.NUMBERSTYLE\_DOTTED\_WITHOUT\_FINAL\_DOT);
34. Sectionsubsection=section.addSection(newParagraph("SubSectionA"));
35. subsection.setIndentationLeft(20);
36. subsection.setNumberDepth(1);
37. document.add(chapter);

**8、画图**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. //左右箭头
2. document.add(newVerticalPositionMark(){
3. publicvoiddraw(PdfContentBytecanvas,floatllx,floatlly,
4. floaturx,floatury,floaty){
5. canvas.beginText();
6. BaseFontbf=null;
7. try{
8. bf=BaseFont.createFont(BaseFont.ZAPFDINGBATS,"",BaseFont.EMBEDDED);
9. }catch(Exceptione){
10. e.printStackTrace();
11. }
12. canvas.setFontAndSize(bf,12);
13. //LEFT
14. canvas.showTextAligned(Element.ALIGN\_CENTER,String.valueOf((char)220),llx-10,y,0);
15. //RIGHT
16. canvas.showTextAligned(Element.ALIGN\_CENTER,String.valueOf((char)220),urx+10,y+8,180);
17. canvas.endText();
18. }
19. });
20. //直线
21. Paragraphp1=newParagraph("LEFT");
22. p1.add(newChunk(newLineSeparator()));
23. p1.add("R");
24. document.add(p1);
25. //点线
26. Paragraphp2=newParagraph("LEFT");
27. p2.add(newChunk(newDottedLineSeparator()));
28. p2.add("R");
29. document.add(p2);
30. //下滑线
31. LineSeparatorUNDERLINE=newLineSeparator(1,100,null,Element.ALIGN\_CENTER,-2);
32. Paragraphp3=newParagraph("NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN");
33. p3.add(UNDERLINE);
34. document.add(p3);

  
  
**9、设置段落**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. Paragraphp=newParagraph("Inthepreviousexample,youaddedaheaderandfooterwiththeshowTextAligned()method.Thisexampledemonstratesthatit’ssometimesmoreinterestingtousePdfPTableandwriteSelectedRows().Youcandefineabottomborderforeachcellsothattheheaderisunderlined.Thisisthemostelegantwaytoaddheadersandfooters,becausethetablemechanismallowsyoutopositionandalignlines,images,andtext.");
2. //默认
3. p.setAlignment(Element.ALIGN\_JUSTIFIED);
4. document.add(p);
5. document.newPage();
6. p.setAlignment(Element.ALIGN\_JUSTIFIED);
7. p.setIndentationLeft(1\*15f);
8. p.setIndentationRight((5-1)\*15f);
9. document.add(p);
10. //居右
11. document.newPage();
12. p.setAlignment(Element.ALIGN\_RIGHT);
13. p.setSpacingAfter(15f);
14. document.add(p);
15. //居左
16. document.newPage();
17. p.setAlignment(Element.ALIGN\_LEFT);
18. p.setSpacingBefore(15f);
19. document.add(p);
20. //居中
21. document.newPage();
22. p.setAlignment(Element.ALIGN\_CENTER);
23. p.setSpacingAfter(15f);
24. p.setSpacingBefore(15f);
25. document.add(p);

**10、删除Page**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. FileOutputStreamout=newFileOutputStream(FILE\_DIR+"deletePage.pdf");
2. Documentdocument=newDocument();
3. PdfWriterwriter=PdfWriter.getInstance(document,out);
4. document.open();
5. document.add(newParagraph("Firstpage"));
6. document.add(newParagraph(Document.getVersion()));
7. document.newPage();
8. writer.setPageEmpty(false);
9. document.newPage();
10. document.add(newParagraph("Newpage"));
11. document.close();
12. PdfReaderreader=newPdfReader(FILE\_DIR+"deletePage.pdf");
13. reader.selectPages("1,3");
14. PdfStamperstamp=newPdfStamper(reader,newFileOutputStream(FILE\_DIR
15. +"deletePage2.pdf"));
16. stamp.close();
17. reader.close();

**11、插入Page**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. FileOutputStreamout=newFileOutputStream(FILE\_DIR+"insertPage.pdf");
2. Documentdocument=newDocument();
3. PdfWriter.getInstance(document,out);
4. document.open();
5. document.add(newParagraph("1page"));
6. document.newPage();
7. document.add(newParagraph("2page"));
8. document.newPage();
9. document.add(newParagraph("3page"));
10. document.close();
11. PdfReaderreader=newPdfReader(FILE\_DIR+"insertPage.pdf");
12. PdfStamperstamp=newPdfStamper(reader,newFileOutputStream(FILE\_DIR
13. +"insertPage2.pdf"));
14. stamp.insertPage(2,reader.getPageSize(1));
15. ColumnTextct=newColumnText(null);
16. ct.addElement(newParagraph(24,newChunk("INSERTPAGE")));
17. ct.setCanvas(stamp.getOverContent(2));
18. ct.setSimpleColumn(36,36,559,770);
19. stamp.close();
20. reader.close();

**12、排序page**

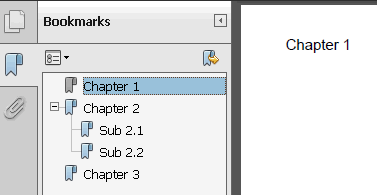
Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. PdfWriterwriter=PdfWriter.getInstance(doc,out);
2. writer.setLinearPageMode();
3. doc.open();
4. doc.add(newParagraph("1page"));
5. doc.newPage();
6. doc.add(newParagraph("2page"));
7. doc.newPage();
8. doc.add(newParagraph("3page"));
9. doc.newPage();
10. doc.add(newParagraph("4page"));
11. doc.newPage();
12. doc.add(newParagraph("5page"));
13. int[]order={4,3,2,1};
14. writer.reorderPages(order);

**13、目录**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. //Code1
2. document.add(newChunk("Chapter1").setLocalDestination("1"));
3. document.newPage();
4. document.add(newChunk("Chapter2").setLocalDestination("2"));
5. document.add(newParagraph(newChunk("Sub2.1").setLocalDestination("2.1")));
6. document.add(newParagraph(newChunk("Sub2.2").setLocalDestination("2.2")));
7. document.newPage();
8. document.add(newChunk("Chapter3").setLocalDestination("3"));
9. //Code2
10. PdfContentBytecb=writer.getDirectContent();
11. PdfOutlineroot=cb.getRootOutline();
12. //Code3
13. @SuppressWarnings("unused")
14. PdfOutlineoline1=newPdfOutline(root,PdfAction.gotoLocalPage("1",false),"Chapter1");
15. PdfOutlineoline2=newPdfOutline(root,PdfAction.gotoLocalPage("2",false),"Chapter2");
16. oline2.setOpen(false);
17. @SuppressWarnings("unused")
18. PdfOutlineoline2\_1=newPdfOutline(oline2,PdfAction.gotoLocalPage("2.1",false),"Sub2.1");
19. @SuppressWarnings("unused")
20. PdfOutlineoline2\_2=newPdfOutline(oline2,PdfAction.gotoLocalPage("2.2",false),"Sub2.2");
21. @SuppressWarnings("unused")
22. PdfOutlineoline3=newPdfOutline(root,PdfAction.gotoLocalPage("3",false),"Chapter3");

  
  
**14、Header, Footer**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. PdfWriterwriter=PdfWriter.getInstance(doc,newFileOutputStream(FILE\_DIR+"setHeaderFooter.pdf"));
2. writer.setPageEvent(newPdfPageEventHelper(){
3. publicvoidonEndPage(PdfWriterwriter,Documentdocument){
4. PdfContentBytecb=writer.getDirectContent();
5. cb.saveState();
6. cb.beginText();
7. BaseFontbf=null;
8. try{
9. bf=BaseFont.createFont(BaseFont.HELVETICA,BaseFont.WINANSI,BaseFont.EMBEDDED);
10. }catch(Exceptione){
11. e.printStackTrace();
12. }
13. cb.setFontAndSize(bf,10);
14. //Header
15. floatx=document.top(-20);
16. //左
17. cb.showTextAligned(PdfContentByte.ALIGN\_LEFT,
18. "H-Left",
19. document.left(),x,0);
20. //中
21. cb.showTextAligned(PdfContentByte.ALIGN\_CENTER,
22. writer.getPageNumber()+"page",
23. (document.right()+document.left())/2,
24. x,0);
25. //右
26. cb.showTextAligned(PdfContentByte.ALIGN\_RIGHT,
27. "H-Right",
28. document.right(),x,0);
29. //Footer
30. floaty=document.bottom(-20);
31. //左
32. cb.showTextAligned(PdfContentByte.ALIGN\_LEFT,
33. "F-Left",
34. document.left(),y,0);
35. //中
36. cb.showTextAligned(PdfContentByte.ALIGN\_CENTER,
37. writer.getPageNumber()+"page",
38. (document.right()+document.left())/2,
39. y,0);
40. //右
41. cb.showTextAligned(PdfContentByte.ALIGN\_RIGHT,
42. "F-Right",
43. document.right(),y,0);
44. cb.endText();
45. cb.restoreState();
46. }
47. });
48. doc.open();
49. doc.add(newParagraph("1page"));
50. doc.newPage();
51. doc.add(newParagraph("2page"));
52. doc.newPage();
53. doc.add(newParagraph("3page"));
54. doc.newPage();
55. doc.add(newParagraph("4page"));

**15、左右文字**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. PdfWriterwriter=PdfWriter.getInstance(document,out);
2. document.open();
3. PdfContentBytecanvas=writer.getDirectContent();
4. Phrasephrase1=newPhrase("Thisisatest!left");
5. Phrasephrase2=newPhrase("Thisisatest!right");
6. Phrasephrase3=newPhrase("Thisisatest!center");
7. ColumnText.showTextAligned(canvas,Element.ALIGN\_LEFT,phrase1,10,500,0);
8. ColumnText.showTextAligned(canvas,Element.ALIGN\_RIGHT,phrase2,10,536,0);
9. ColumnText.showTextAligned(canvas,Element.ALIGN\_CENTER,phrase3,10,572,0);

**16、幻灯片放映**

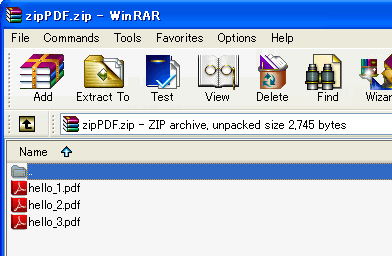
Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. PdfWriterwriter=PdfWriter.getInstance(doc,out);
2. writer.setPdfVersion(PdfWriter.VERSION\_1\_5);
3. writer.setViewerPreferences(PdfWriter.PageModeFullScreen);//全屏
4. writer.setPageEvent(newPdfPageEventHelper(){
5. publicvoidonStartPage(PdfWriterwriter,Documentdocument){
6. writer.setTransition(newPdfTransition(PdfTransition.DISSOLVE,3));
7. writer.setDuration(5);//间隔时间
8. }
9. });
10. doc.open();
11. doc.add(newParagraph("1page"));
12. doc.newPage();
13. doc.add(newParagraph("2page"));
14. doc.newPage();
15. doc.add(newParagraph("3page"));
16. doc.newPage();
17. doc.add(newParagraph("4page"));
18. doc.newPage();
19. doc.add(newParagraph("5page"));

**17、压缩PDF到Zip**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. ZipOutputStreamzip=newZipOutputStream(newFileOutputStream(FILE\_DIR+"zipPDF.zip"));
2. for(inti=1;i<=3;i++){
3. ZipEntryentry=newZipEntry("hello\_"+i+".pdf");
4. zip.putNextEntry(entry);
5. Documentdocument=newDocument();
6. PdfWriterwriter=PdfWriter.getInstance(document,zip);
7. writer.setCloseStream(false);
8. document.open();
9. document.add(newParagraph("Hello"+i));
10. document.close();
11. zip.closeEntry();
12. }
13. zip.close();

  
  
**18、分割PDF**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. FileOutputStreamout=newFileOutputStream(FILE\_DIR+"splitPDF.pdf");
2. Documentdocument=newDocument();
3. PdfWriter.getInstance(document,out);
4. document.open();
5. document.add(newParagraph("1page"));
6. document.newPage();
7. document.add(newParagraph("2page"));
8. document.newPage();
9. document.add(newParagraph("3page"));
10. document.newPage();
11. document.add(newParagraph("4page"));
12. document.close();
13. PdfReaderreader=newPdfReader(FILE\_DIR+"splitPDF.pdf");
14. Documentdd=newDocument();
15. PdfWriterwriter=PdfWriter.getInstance(dd,newFileOutputStream(FILE\_DIR+"splitPDF1.pdf"));
16. dd.open();
17. PdfContentBytecb=writer.getDirectContent();
18. dd.newPage();
19. cb.addTemplate(writer.getImportedPage(reader,1),0,0);
20. dd.newPage();
21. cb.addTemplate(writer.getImportedPage(reader,2),0,0);
22. dd.close();
23. writer.close();
24. Documentdd2=newDocument();
25. PdfWriterwriter2=PdfWriter.getInstance(dd2,newFileOutputStream(FILE\_DIR+"splitPDF2.pdf"));
26. dd2.open();
27. PdfContentBytecb2=writer2.getDirectContent();
28. dd2.newPage();
29. cb2.addTemplate(writer2.getImportedPage(reader,3),0,0);
30. dd2.newPage();
31. cb2.addTemplate(writer2.getImportedPage(reader,4),0,0);
32. dd2.close();
33. writer2.close();

**19、合并PDF**

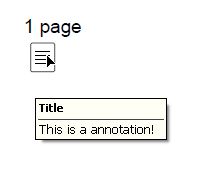
Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. PdfReaderreader1=newPdfReader(FILE\_DIR+"splitPDF1.pdf");
2. PdfReaderreader2=newPdfReader(FILE\_DIR+"splitPDF2.pdf");
3. FileOutputStreamout=newFileOutputStream(FILE\_DIR+"mergePDF.pdf");
4. Documentdocument=newDocument();
5. PdfWriterwriter=PdfWriter.getInstance(document,out);
6. document.open();
7. PdfContentBytecb=writer.getDirectContent();
8. inttotalPages=0;
9. totalPages+=reader1.getNumberOfPages();
10. totalPages+=reader2.getNumberOfPages();
11. java.util.List<PdfReader>readers=newArrayList<PdfReader>();
12. readers.add(reader1);
13. readers.add(reader2);
14. intpageOfCurrentReaderPDF=0;
15. Iterator<PdfReader>iteratorPDFReader=readers.iterator();
16. //LoopthroughthePDFfilesandaddtotheoutput.
17. while(iteratorPDFReader.hasNext()){
18. PdfReaderpdfReader=iteratorPDFReader.next();
19. //Createanewpageinthetargetforeachsourcepage.
20. while(pageOfCurrentReaderPDF<pdfReader.getNumberOfPages()){
21. document.newPage();
22. pageOfCurrentReaderPDF++;
23. PdfImportedPagepage=writer.getImportedPage(pdfReader,pageOfCurrentReaderPDF);
24. cb.addTemplate(page,0,0);
25. }
26. pageOfCurrentReaderPDF=0;
27. }
28. out.flush();
29. document.close();
30. out.close();

**20、Annotation**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. PdfWriterwriter=PdfWriter.getInstance(doc,out);
2. writer.setLinearPageMode();
3. doc.open();
4. doc.add(newParagraph("1page"));
5. doc.add(newAnnotation("Title","Thisisaannotation!"));
6. doc.newPage();
7. doc.add(newParagraph("2page"));
8. Chunkchunk=newChunk("\u00a0");
9. chunk.setAnnotation(PdfAnnotation.createText(writer,null,"Title","Thisisaanotherannotation!",false,"Comment"));
10. doc.add(chunk);
11. //添加附件
12. doc.newPage();
13. doc.add(newParagraph("3page"));
14. Chunkchunk2=newChunk("\u00a0\u00a0");
15. PdfAnnotationannotation=PdfAnnotation.createFileAttachment(
16. writer,null,"Title",null,
17. "resource/test2.jpg",
18. "img.jpg");
19. annotation.put(PdfName.NAME,
20. newPdfString("Paperclip"));
21. chunk2.setAnnotation(annotation);
22. doc.add(chunk2);

  
  
**21、插入一个Table**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. PdfPTabletable=newPdfPTable(3);
2. PdfPCellcell;
3. cell=newPdfPCell(newPhrase("Cellwithcolspan3"));
4. cell.setColspan(3);
5. table.addCell(cell);
6. cell=newPdfPCell(newPhrase("Cellwithrowspan2"));
7. cell.setRowspan(2);
8. table.addCell(cell);
9. table.addCell("row1;cell1");
10. table.addCell("row1;cell2");
11. table.addCell("row2;cell1");
12. table.addCell("row2;cell2");
13. document.add(table);

**22、表格嵌套**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. PdfPTabletable=newPdfPTable(4);
2. //1行2列
3. PdfPTablenested1=newPdfPTable(2);
4. nested1.addCell("1.1");
5. nested1.addCell("1.2");
6. //2行1列
7. PdfPTablenested2=newPdfPTable(1);
8. nested2.addCell("2.1");
9. nested2.addCell("2.2");
10. //将表格插入到指定位置
11. for(intk=0;k<24;++k){
12. if(k==1){
13. table.addCell(nested1);
14. }elseif(k==20){
15. table.addCell(nested2);
16. }else{
17. table.addCell("cell"+k);
18. }
19. }
20. document.add(table);

**23、设置表格宽度**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. PdfPTabletable=newPdfPTable(3);
2. PdfPCellcell;
3. cell=newPdfPCell(newPhrase("Cellwithcolspan3"));
4. cell.setColspan(3);
5. table.addCell(cell);
6. cell=newPdfPCell(newPhrase("Cellwithrowspan2"));
7. cell.setRowspan(2);
8. table.addCell(cell);
9. table.addCell("row1;cell1");
10. table.addCell("row1;cell2");
11. table.addCell("row2;cell1");
12. table.addCell("row2;cell2");
13. //100%
14. table.setWidthPercentage(100);
15. document.add(table);
16. document.add(newParagraph("\n\n"));
17. //宽度50%居左
18. table.setHorizontalAlignment(Element.ALIGN\_LEFT);
19. document.add(table);
20. document.add(newParagraph("\n\n"));
21. //宽度50%居中
22. table.setHorizontalAlignment(Element.ALIGN\_CENTER);
23. document.add(table);
24. document.add(newParagraph("\n\n"));
25. //宽度50%居右
26. table.setWidthPercentage(50);
27. table.setHorizontalAlignment(Element.ALIGN\_RIGHT);
28. document.add(table);
29. document.add(newParagraph("\n\n"));
30. //固定宽度
31. table.setTotalWidth(300);
32. table.setLockedWidth(true);
33. document.add(table);

**24、设置表格前后间隔**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. PdfPTabletable=newPdfPTable(3);
2. PdfPCellcell=newPdfPCell(newParagraph("合并3个单元格",fontZH));
3. cell.setColspan(3);
4. table.addCell(cell);
5. table.addCell("1.1");
6. table.addCell("2.1");
7. table.addCell("3.1");
8. table.addCell("1.2");
9. table.addCell("2.2");
10. table.addCell("3.2");
11. cell=newPdfPCell(newParagraph("红色边框",fontZH));
12. cell.setBorderColor(newBaseColor(255,0,0));
13. table.addCell(cell);
14. cell=newPdfPCell(newParagraph("合并单2个元格",fontZH));
15. cell.setColspan(2);
16. cell.setBackgroundColor(newBaseColor(0xC0,0xC0,0xC0));
17. table.addCell(cell);
18. table.setWidthPercentage(50);
19. document.add(newParagraph("追加2个表格",fontZH));
20. document.add(table);
21. document.add(table);
22. document.newPage();
23. document.add(newParagraph("使用'SpacingBefore'和'setSpacingAfter'",fontZH));
24. table.setSpacingBefore(15f);
25. document.add(table);
26. document.add(table);
27. document.add(newParagraph("这里没有间隔",fontZH));
28. table.setSpacingAfter(15f);

**25、设置单元格宽度**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. //按比例设置单元格宽度
2. float[]widths={0.1f,0.1f,0.05f,0.75f};
3. PdfPTabletable=newPdfPTable(widths);
4. table.addCell("10%");
5. table.addCell("10%");
6. table.addCell("5%");
7. table.addCell("75%");
8. table.addCell("aa");
9. table.addCell("aa");
10. table.addCell("a");
11. table.addCell("aaaaaaaaaaaaaaa");
12. table.addCell("bb");
13. table.addCell("bb");
14. table.addCell("b");
15. table.addCell("bbbbbbbbbbbbbbb");
16. table.addCell("cc");
17. table.addCell("cc");
18. table.addCell("c");
19. table.addCell("ccccccccccccccc");
20. document.add(table);
21. document.add(newParagraph("\n\n"));
22. //调整比例
23. widths[0]=20f;
24. widths[1]=20f;
25. widths[2]=10f;
26. widths[3]=50f;
27. table.setWidths(widths);
28. document.add(table);
29. //按绝对值设置单元格宽度
30. widths[0]=40f;
31. widths[1]=40f;
32. widths[2]=20f;
33. widths[3]=300f;
34. Rectangler=newRectangle(PageSize.A4.getRight(72),PageSize.A4.getTop(72));
35. table.setWidthPercentage(widths,r);
36. document.add(newParagraph("\n\n"));
37. document.add(table);

**26、设置单元格高度**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. PdfPTabletable=newPdfPTable(2);
2. PdfPCellcell;
3. //折行
4. table.addCell(newPdfPCell(newParagraph("折行",fontZH)));
5. cell=newPdfPCell(newParagraph("blahblahblahblahblahblahblahblahblahblahblahblahblahblahblahblahblahblahblahblah"));
6. cell.setNoWrap(false);
7. table.addCell(cell);
8. //不折行
9. table.addCell(newPdfPCell(newParagraph("不折行",fontZH)));
10. cell.setNoWrap(true);
11. table.addCell(cell);
12. //设置高度
13. table.addCell(newPdfPCell(newParagraph("任意高度",fontZH)));
14. cell=newPdfPCell(newParagraph("1.blahblah\n2.blahblahblah\n3.blahblah\n4.blahblahblah\n5.blahblah\n6.blahblahblah\n7.blahblah\n8.blahblahblah"));
15. table.addCell(cell);
16. //固定高度
17. table.addCell(newPdfPCell(newParagraph("固定高度",fontZH)));
18. cell.setFixedHeight(50f);
19. table.addCell(cell);
20. //最小高度
21. table.addCell(newPdfPCell(newParagraph("最小高度",fontZH)));
22. cell=newPdfPCell(newParagraph("最小高度：50",fontZH));
23. cell.setMinimumHeight(50f);
24. table.addCell(cell);
25. //最后一行拉长到page底部
26. table.setExtendLastRow(true);
27. table.addCell(newPdfPCell(newParagraph("拉长最后一行",fontZH)));
28. cell=newPdfPCell(newParagraph("最后一行拉长到page底部",fontZH));
29. table.addCell(cell);
30. document.add(table);

**27、设置单元格颜色**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. PdfPTabletable=newPdfPTable(4);
2. PdfPCellcell;
3. cell=newPdfPCell(newParagraph("颜色测试",fontZH));
4. table.addCell(cell);
5. //红色背景，无边框
6. cell=newPdfPCell(newParagraph("红色背景，无边框",fontZH));
7. cell.setBorder(Rectangle.NO\_BORDER);
8. cell.setBackgroundColor(BaseColor.RED);
9. table.addCell(cell);
10. //绿色背景，下边框
11. cell=newPdfPCell(newParagraph("绿色背景，下边框",fontZH));
12. cell.setBorder(Rectangle.BOTTOM);
13. cell.setBorderColorBottom(BaseColor.MAGENTA);
14. cell.setBorderWidthBottom(5f);
15. cell.setBackgroundColor(BaseColor.GREEN);
16. table.addCell(cell);
17. //蓝色背景，上边框
18. cell=newPdfPCell(newParagraph("蓝色背景，上边框",fontZH));
19. cell.setBorder(Rectangle.TOP);
20. cell.setUseBorderPadding(true);
21. cell.setBorderWidthTop(5f);
22. cell.setBorderColorTop(BaseColor.CYAN);
23. cell.setBackgroundColor(BaseColor.BLUE);
24. table.addCell(cell);
25. cell=newPdfPCell(newParagraph("背景灰色度",fontZH));
26. table.addCell(cell);
27. cell=newPdfPCell(newParagraph("0.25"));
28. cell.setBorder(Rectangle.NO\_BORDER);
29. cell.setGrayFill(0.25f);
30. table.addCell(cell);
31. cell=newPdfPCell(newParagraph("0.5"));
32. cell.setBorder(Rectangle.NO\_BORDER);
33. cell.setGrayFill(0.5f);
34. table.addCell(cell);
35. cell=newPdfPCell(newParagraph("0.75"));
36. cell.setBorder(Rectangle.NO\_BORDER);
37. cell.setGrayFill(0.75f);
38. table.addCell(cell);
39. document.add(table);

**28、插入图像**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. Imageimage=Image.getInstance("resource/test2.jpg");
2. float[]widths={1f,4f};
3. PdfPTabletable=newPdfPTable(widths);
4. //插入图片
5. table.addCell(newPdfPCell(newParagraph("图片测试",fontZH)));
6. table.addCell(image);
7. //调整图片大小
8. table.addCell("Thistwo");
9. table.addCell(newPdfPCell(image,true));
10. //不调整
11. table.addCell("Thisthree");
12. table.addCell(newPdfPCell(image,false));
13. document.add(table);

**29、设置表头**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. String[]bogusData={"M0065920","SL","FR86000P","PCGOLD",
2. "119000","9606","2001-08-13","4350","6011648299",
3. "FLFLMTGP","153","119000.00"};
4. intNumColumns=12;
5. //12
6. PdfPTabledatatable=newPdfPTable(NumColumns);
7. intheaderwidths[]={9,4,8,10,8,11,9,7,9,10,4,10};//percentage
8. datatable.setWidths(headerwidths);
9. datatable.setWidthPercentage(100);
10. datatable.getDefaultCell().setPadding(3);
11. datatable.getDefaultCell().setBorderWidth(2);
12. datatable.getDefaultCell().setHorizontalAlignment(Element.ALIGN\_CENTER);
13. datatable.addCell("Clock#");
14. datatable.addCell("TransType");
15. datatable.addCell("Cusip");
16. datatable.addCell("LongName");
17. datatable.addCell("Quantity");
18. datatable.addCell("FractionPrice");
19. datatable.addCell("SettleDate");
20. datatable.addCell("Portfolio");
21. datatable.addCell("ADPNumber");
22. datatable.addCell("AccountID");
23. datatable.addCell("RegRepID");
24. datatable.addCell("AmtToGo");
25. datatable.setHeaderRows(1);
26. //边框
27. datatable.getDefaultCell().setBorderWidth(1);
28. //背景色
29. for(inti=1;i<1000;i++){
30. for(intx=0;x<NumColumns;x++){
31. datatable.addCell(bogusData[x]);
32. }
33. }
34. document.add(datatable);

**30、分割表格**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. //横向分割
2. PdfContentBytecb=writer.getDirectContent();
3. PdfPTabletable=newPdfPTable(10);
4. for(intk=1;k<=100;++k){
5. table.addCell("Thenumber"+k);
6. }
7. table.setTotalWidth(400);
8. table.writeSelectedRows(0,5,0,-1,5,700,cb);
9. table.writeSelectedRows(5,-1,0,-1,210,700,cb);

**31、设置单元格留白**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. PdfPTabletable=newPdfPTable(2);
2. PdfPCellcell;
3. Paragraphp=newParagraph("Quickbrownfoxjumpsoverthelazydog.Quickbrownfoxjumpsoverthelazydog.");
4. table.addCell(newPdfPCell(newParagraph("默认",fontZH)));
5. table.addCell(p);
6. table.addCell(newPdfPCell(newParagraph("Padding：10",fontZH)));
7. cell=newPdfPCell(p);
8. cell.setPadding(10f);
9. table.addCell(cell);
10. table.addCell(newPdfPCell(newParagraph("Padding：0",fontZH)));
11. cell=newPdfPCell(p);
12. cell.setPadding(0f);
13. table.addCell(cell);
14. table.addCell(newPdfPCell(newParagraph("上Padding：0左Padding：20",fontZH)));
15. cell=newPdfPCell(p);
16. cell.setPaddingTop(0f);
17. cell.setPaddingLeft(20f);
18. table.addCell(cell);
19. document.add(table);
20. document.newPage();
21. table=newPdfPTable(2);
22. table.addCell(newPdfPCell(newParagraph("没有Leading",fontZH)));
23. table.getDefaultCell().setLeading(0f,0f);
24. table.addCell("blahblah\nblahblahblah\nblahblah\nblahblahblah\nblahblah\nblahblahblah\nblahblah\nblahblahblah\n");
25. table.getDefaultCell().setLeading(14f,0f);
26. table.addCell(newPdfPCell(newParagraph("固定Leading：14pt",fontZH)));
27. table.addCell("blahblah\nblahblahblah\nblahblah\nblahblahblah\nblahblah\nblahblahblah\nblahblah\nblahblahblah\n");
28. table.addCell(newPdfPCell(newParagraph("相对于字体",fontZH)));
29. table.getDefaultCell().setLeading(0f,1.0f);
30. table.addCell("blahblah\nblahblahblah\nblahblah\nblahblahblah\nblahblah\nblahblahblah\nblahblah\nblahblahblah\n");
31. document.add(table);

**32、设置单元格边框**

Java代码 [收藏代码](http://piperzero.iteye.com/blog/1660540)

1. //没有边框
2. PdfPTabletable1=newPdfPTable(3);
3. table1.getDefaultCell().setBorder(PdfPCell.NO\_BORDER);
4. table1.addCell(newParagraph("Cell1"));
5. table1.addCell(newParagraph("Cell2"));
6. table1.addCell(newParagraph("Cell3"));
7. document.add(table1);
8. //边框粗细颜色
9. document.newPage();
10. Rectangleb1=newRectangle(0f,0f);
11. b1.setBorderWidthLeft(6f);
12. b1.setBorderWidthBottom(5f);
13. b1.setBorderWidthRight(4f);
14. b1.setBorderWidthTop(2f);
15. b1.setBorderColorLeft(BaseColor.RED);
16. b1.setBorderColorBottom(BaseColor.ORANGE);
17. b1.setBorderColorRight(BaseColor.YELLOW);
18. b1.setBorderColorTop(BaseColor.GREEN);
19. PdfPTabletable2=newPdfPTable(1);
20. PdfPCellcell=newPdfPCell(newParagraph("Cell1"));
21. cell.cloneNonPositionParameters(b1);
22. table2.addCell(cell);
23. document.add(table2);

**33、PdfPTableEvent   
  
34、PdfPCellEvent   
  
35、PdfPageEventHelper**