

```
package de.vogella.itext.write;

import java.io.FileOutputStream;
import java.util.Date;

import com.itextpdf.text.Anchor;
import com.itextpdf.text.BadElementException;
import com.itextpdf.text.BaseColor;
import com.itextpdf.text.Chapter;
import com.itextpdf.text.Document;
import com.itextpdf.text.DocumentException;
import com.itextpdf.text.Element;
import com.itextpdf.text.Font;
import com.itextpdf.text.List;
import com.itextpdf.text.ListItem;
import com.itextpdf.text.Paragraph;
import com.itextpdf.text.Phrase;
import com.itextpdf.text.Section;
import com.itextpdf.text.pdf.PdfPCell;
import com.itextpdf.text.pdf.PdfPTable;
import com.itextpdf.text.pdf.PdfWriter;

public class FirstPdf {
    private static String FILE = "c:/temp/FirstPdf.pdf";
    private static Font catFont = new Font(Font.FontFamily.TIMES_ROMAN, 18,
        Font.BOLD);
    private static Font redFont = new Font(Font.FontFamily.TIMES_ROMAN, 12,
        Font.NORMAL, BaseColor.RED);
    private static Font subFont = new Font(Font.FontFamily.TIMES_ROMAN, 16,
        Font.BOLD);
    private static Font smallBold = new Font(Font.FontFamily.TIMES_ROMAN, 12,
        Font.BOLD);

    public static void main(String[] args) {
        try {
            Document document = new Document();
            PdfWriter.getInstance(document, new FileOutputStream(FILE));
            document.open();
            addMetaData(document);
            addTitlePage(document);
            addContent(document);
            document.close();
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

```
}  
}
```

```
// iText allows to add metadata to the PDF which can be viewed in your Adobe  
// Reader
```

```
// under File -> Properties
```

```
private static void addMetaData(Document document) {  
    document.addTitle("My first PDF");  
    document.addSubject("Using iText");  
    document.addKeywords("Java, PDF, iText");  
    document.addAuthor("Lars Vogel");  
    document.addCreator("Lars Vogel");  
}
```

```
private static void addTitlePage(Document document)  
throws DocumentException {  
    Paragraph preface = new Paragraph();  
    // We add one empty line  
    addEmptyLine(preface, 1);  
    // Lets write a big header  
    preface.add(new Paragraph("Title of the document", catFont));
```

```
    addEmptyLine(preface, 1);  
    // Will create: Report generated by: _name, _date  
    preface.add(new Paragraph(  
        "Report generated by: " + System.getProperty("user.name") + ", " + new Date(),  
        //$NON-NLS-1$ //$NON-NLS-2$ //$NON-NLS-3$  
        smallBold));  
    addEmptyLine(preface, 3);  
    preface.add(new Paragraph(  
        "This document describes something which is very important ",  
        smallBold));
```

```
    addEmptyLine(preface, 8);
```

```
    preface.add(new Paragraph(  
        "This document is a preliminary version and not subject to your license agreement or any other  
        agreement with vogella.com ;-).",  
        redFont));
```

```
    document.add(preface);  
    // Start a new page  
    document.newPage();  
}
```

```
private static void addContent(Document document) throws DocumentException {
```

```

Anchor anchor = new Anchor("First Chapter", catFont);
anchor.setName("First Chapter");

// Second parameter is the number of the chapter
Chapter catPart = new Chapter(new Paragraph(anchor), 1);

Paragraph subPara = new Paragraph("Subcategory 1", subFont);
Section subCatPart = catPart.addSection(subPara);
subCatPart.add(new Paragraph("Hello"));

subPara = new Paragraph("Subcategory 2", subFont);
subCatPart = catPart.addSection(subPara);
subCatPart.add(new Paragraph("Paragraph 1"));
subCatPart.add(new Paragraph("Paragraph 2"));
subCatPart.add(new Paragraph("Paragraph 3"));

// add a list
createList(subCatPart);
Paragraph paragraph = new Paragraph();
addEmptyLine(paragraph, 5);
subCatPart.add(paragraph);

// add a table
createTable(subCatPart);

// now add all this to the document
document.add(catPart);

// Next section
anchor = new Anchor("Second Chapter", catFont);
anchor.setName("Second Chapter");

// Second parameter is the number of the chapter
catPart = new Chapter(new Paragraph(anchor), 1);

subPara = new Paragraph("Subcategory", subFont);
subCatPart = catPart.addSection(subPara);
subCatPart.add(new Paragraph("This is a very important message"));

// now add all this to the document
document.add(catPart);

}

private static void createTable(Section subCatPart)
throws BadElementException {

```

```

PdfPTable table = new PdfPTable(3);

// t.setBorderColor(BaseColor.GRAY);
// t.setPadding(4);
// t.setSpacing(4);
// t.setBorderWidth(1);

PdfPCell c1 = new PdfPCell(new Phrase("Table Header 1"));
c1.setHorizontalAlignment(Element.ALIGN_CENTER);
table.addCell(c1);

c1 = new PdfPCell(new Phrase("Table Header 2"));
c1.setHorizontalAlignment(Element.ALIGN_CENTER);
table.addCell(c1);

c1 = new PdfPCell(new Phrase("Table Header 3"));
c1.setHorizontalAlignment(Element.ALIGN_CENTER);
table.addCell(c1);
table.setHeaderRows(1);

table.addCell("1.0");
table.addCell("1.1");
table.addCell("1.2");
table.addCell("2.1");
table.addCell("2.2");
table.addCell("2.3");

subCatPart.add(table);

}

private static void createList(Section subCatPart) {
List list = new List(true, false, 10);
list.add(new ListItem("First point"));
list.add(new ListItem("Second point"));
list.add(new ListItem("Third point"));
subCatPart.add(list);
}

private static void addEmptyLine(Paragraph paragraph, int number) {
for (int i = 0; i < number; i++) {
paragraph.add(new Paragraph(" "));
}
}
}

```