



UNIVERSIDADE EDUARDO MONDLANE
FACULDADE DE ENGENHARIA
DEPARTAMENTO DE ENGENHARIA ELECTROTÉCNICA

Programação Orientada a Objectos II

Exemplos iText

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Conteúdo da Aula

1. Instalação iText
2. Exemplos iText





Instalação do iText

- Copiar a pasta iText;
- Adicionar os Jar files as libraries do projecto





Hello World

```
package itext;

import com.itextpdf.text.Document;
import com.itextpdf.text.Paragraph;
import com.itextpdf.text.pdf.PdfWriter;
import java.awt.Desktop;
import java.io.File;
import java.io.FileOutputStream;

/**
 *
 * @author Manhica
 */
public class helloworld {

    public static void main(String arg[]) throws Exception {
        Document document = new Document();
        PdfWriter.getInstance(document, new FileOutputStream("hello.pdf"));
        document.open();
        document.add(new Paragraph("Hello Pdf"));
        document.close();
        //Para Abrir o Documento
        Desktop desktop = null;
        if (Desktop.isDesktopSupported()) {
            desktop = Desktop.getDesktop();
            desktop.open(new File("hello.pdf"));
        }
    }
}
```





Documento A4

```
package itext;
```

```
import com.itextpdf.text.Document;  
import com.itextpdf.text.PageSize;  
import com.itextpdf.text.Paragraph;  
import com.itextpdf.text.pdf.PdfWriter;  
import java.io.FileOutputStream;
```

```
/**  
 *  
 * @author Manhica  
 */
```

```
public class paginaA4 {
```

```
    public static void main(String arg[]) throws Exception {  
        Document document = new Document(PageSize.A4);  
        PdfWriter.getInstance(document,  
            new FileOutputStream("a4PDF.pdf"));  
        document.open();  
        document.add(new Paragraph("Pagina com Tamanho A4"));  
        document.close();  
    }
```

```
}
```





Dimensão das Páginas (1)

```
package itext;

import com.itextpdf.text.Document;
import com.itextpdf.text.PageSize;
import com.itextpdf.text.Paragraph;
import com.itextpdf.text.pdf.PdfWriter;
import java.awt.Desktop;
import java.io.File;
import java.io.FileOutputStream;

/**
 *
 * @author Manhica
 */
public class TamanhoDasPaginas {

    public static void main(String arg[]) throws Exception {
        Document document = new Document();
        PdfWriter.getInstance(document,
            new FileOutputStream("DefaultPageSize.pdf"));
        document.open();
        document.add(new Paragraph("Tamanho da Pagina"));
        document.setPageSize(PageSize.A3);
        document.newPage();
        document.add(new Paragraph("A3."));
        document.setPageSize(PageSize.A2);
        document.newPage();
        document.add(new Paragraph("A2."));
        document.setPageSize(PageSize.A1);
        document.newPage();
        document.add(new Paragraph("A1."));
        document.setPageSize(PageSize.A0);
        document.newPage();
    }
}
```





Dimensão das Páginas (2)

```
document.setPageSize(PageSize.A0);
document.newPage();
document.add(new Paragraph("A0.));
document.setPageSize(PageSize.A5);
document.newPage();
document.add(new Paragraph("A5.));
document.setPageSize(PageSize.A6);
document.newPage();
document.add(new Paragraph("A6.));
document.setPageSize(PageSize.A7);
document.newPage();
document.add(new Paragraph("A7.));
document.setPageSize(PageSize.A8);
document.newPage();
document.add(new Paragraph("A8.));
document.setPageSize(PageSize.LETTER);
document.newPage();
document.add(new Paragraph("LETTER.));
document.close();

Desktop desktop = null;
if (Desktop.isDesktopSupported()) {
    desktop = Desktop.getDesktop();
    desktop.open(new File("DefaultPageSize.pdf"));
}
}
```





Inserir Imagens

```
package itext;
```

```
import com.itextpdf.text.Document;  
import com.itextpdf.text.Image;  
import com.itextpdf.text.Paragraph;  
import com.itextpdf.text.pdf.PdfWriter;  
import java.io.FileOutputStream;
```

```
/**  
 *  
 * @author Manhica  
 */
```

```
public class Imagens {
```

```
    public static void main(String arg[]) throws Exception {  
        Document document = new Document();  
        PdfWriter.getInstance(document, new FileOutputStream("imagesPDF.pdf"));  
        document.open();  
        Image image = Image.getInstance("devi.jpg"); // NB: image de iTexte e não AWT  
        document.add(new Paragraph("Exemplo de Imagens"));  
        document.add(image);  
        document.close();  
    }  
}
```





Cor de Fundo

```
package itext;

import com.itextpdf.text.BaseColor;
import com.itextpdf.text.Document;
import com.itextpdf.text.Paragraph;
import com.itextpdf.text.Rectangle;
import com.itextpdf.text.pdf.PdfWriter;
import java.io.FileOutputStream;

/**
 *
 * @author Manhica
 */
public class CorDoFundoDaPagina {

    public static void main(String arg[]) throws Exception {
        Rectangle pageSize = new Rectangle(400, 400);
        pageSize.setBackgroundColor( new BaseColor(0xDF, 0xFF, 0xDE));
        Document document = new Document(pageSize);
        PdfWriter.getInstance(document,
            new FileOutputStream("backgroundColorPDF.pdf"));
        document.open();
        Paragraph para = new Paragraph("Cor de fundo");
        document.add(para);
        document.add(new Paragraph("Cor de Fundo de novo"));
        document.close();
    }
}
```





Fontes Para textos

```
/**
 *
 * @author Manhica
 */
public class Fontes {

    public static void main(String[] args) throws Exception {
        Document document = new Document();
        PdfWriter writer = PdfWriter.getInstance(document,
            new FileOutputStream("differentfontspdf.pdf"));
        document.open();
        Paragraph p = new Paragraph();
        p.add(new Chunk("This text is in Times Roman. ",
            new Font(Font.FontFamily.TIMES_ROMAN, 12)));
        p.add(new Chunk("This is ZapfDingbats: ",
            new Font(Font.FontFamily.COURIER, 12)));
        p.add(new Chunk(". This is font Symbol: ",
            new Font(Font.FontFamily.ZAPFDINGBATS, 12)));
        p.add(new Chunk("This text is in Times Roman.",
            new Font(Font.FontFamily.SYMBOL, 12)));
        document.add(new Paragraph(p));
        document.close();
    }
}
```





Fontes Para textos

```
package itext;

import com.itextpdf.text.BaseColor;
import com.itextpdf.text.Chunk;
import com.itextpdf.text.Document;
import com.itextpdf.text.Font;
import com.itextpdf.text.FontFactory;
import com.itextpdf.text.Paragraph;
import com.itextpdf.text.pdf.PdfWriter;
import java.io.FileOutputStream;

/**
 *
 * @author Manhica
 */
public class MecherFontesDosTextos {

    public static void main(String[] args) throws Exception {
        System.out.println("FontColor");
        Document document = new Document();
        PdfWriter writer = PdfWriter.getInstance(document, new FileOutputStream("changeChunkColor.pdf"));
        document.open();
        Paragraph paragraph;
        paragraph = new Paragraph("Universidade ");
        paragraph.add(new Chunk("Eduardo Mondlane ", FontFactory.getFont(FontFactory.HELVETICA,
            Font.DEFAULTSIZE, Font.BOLD, new BaseColor(0xFF, 0x00, 0x00))));
        document.add(paragraph);
        paragraph = new Paragraph("@2015");
        paragraph.add(new Chunk(" Moçambique", FontFactory.getFont(FontFactory.HELVETICA,
            Font.DEFAULTSIZE, Font.ITALIC, new BaseColor(0x00, 0x00, 0xFF))));
        document.add(paragraph);
        document.close();
    }
}
```





Tabelas

```
package itext;
```

```
import com.itextpdf.text.Document;  
import com.itextpdf.text.pdf.PdfPTable;  
import com.itextpdf.text.pdf.PdfWriter;  
import java.io.FileOutputStream;
```

```
/**  
 *  
 * @author Manhica  
 */
```

```
public class Tabelas {
```

```
    public static void main(String arg[]) throws Exception {  
        Document document = new Document();  
        PdfWriter.getInstance(document, new FileOutputStream("tablePDF.pdf"));  
        document.open();  
        PdfPTable table = new PdfPTable(2);  
        table.addCell("Nome");  
        table.addCell("Local");  
        table.addCell("Maputo");  
        table.addCell("Moçambique");  
        document.add(table);  
        document.close();  
    }  
}
```





Tabela com Cabeçalho

```
/**
 *
 * @author Manhica
 */
public class CabeçalhoTabela {

    public static void main(String arg[]) throws Exception {
        Document document = new Document();
        PdfWriter.getInstance(document, new FileOutputStream("tableTilePDF.pdf"));
        document.open();
        PdfPTable table = new PdfPTable(2);
        PdfPCell cell = new PdfPCell(new Paragraph("Moçambique"));
        cell.setColspan(2);
        cell.setHorizontalAlignment(Element.ALIGN_CENTER);
        cell.setBackgroundColor(new BaseColor(128, 200, 128));
        cell.setPadding(10.0f);
        table.addCell(cell);
        cell = new PdfPCell(new Paragraph("Nome"));
        cell.setHorizontalAlignment(Element.ALIGN_CENTER);
        cell.setBackgroundColor(new BaseColor(255, 200, 0));
        cell.setPadding(10.0f);
        table.addCell(cell);
        cell = new PdfPCell(new Paragraph("Lugar"));
        cell.setHorizontalAlignment(Element.ALIGN_CENTER);
        cell.setBackgroundColor(new BaseColor(255, 200, 0));
        cell.setPadding(10.0f);
        table.addCell(cell);
        table.addCell("Matola");
        table.addCell("Maputo");
        table.addCell("Beira");
        table.addCell("Sofala");
        document.add(table);
        document.close();
    }
}
```



FIM!!!

Duvidas e Questões?

