
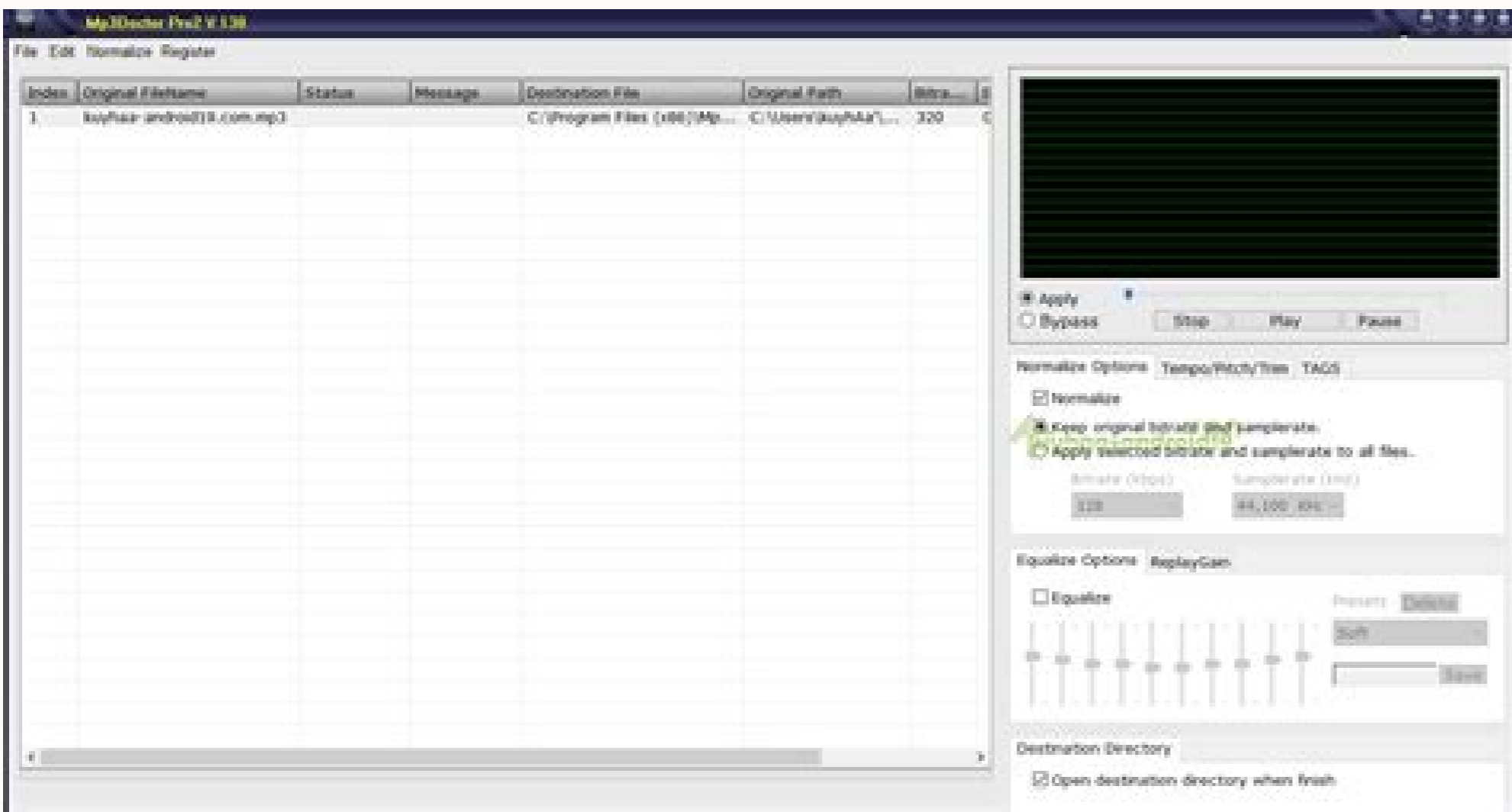
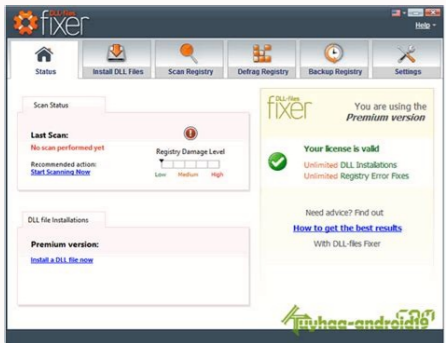
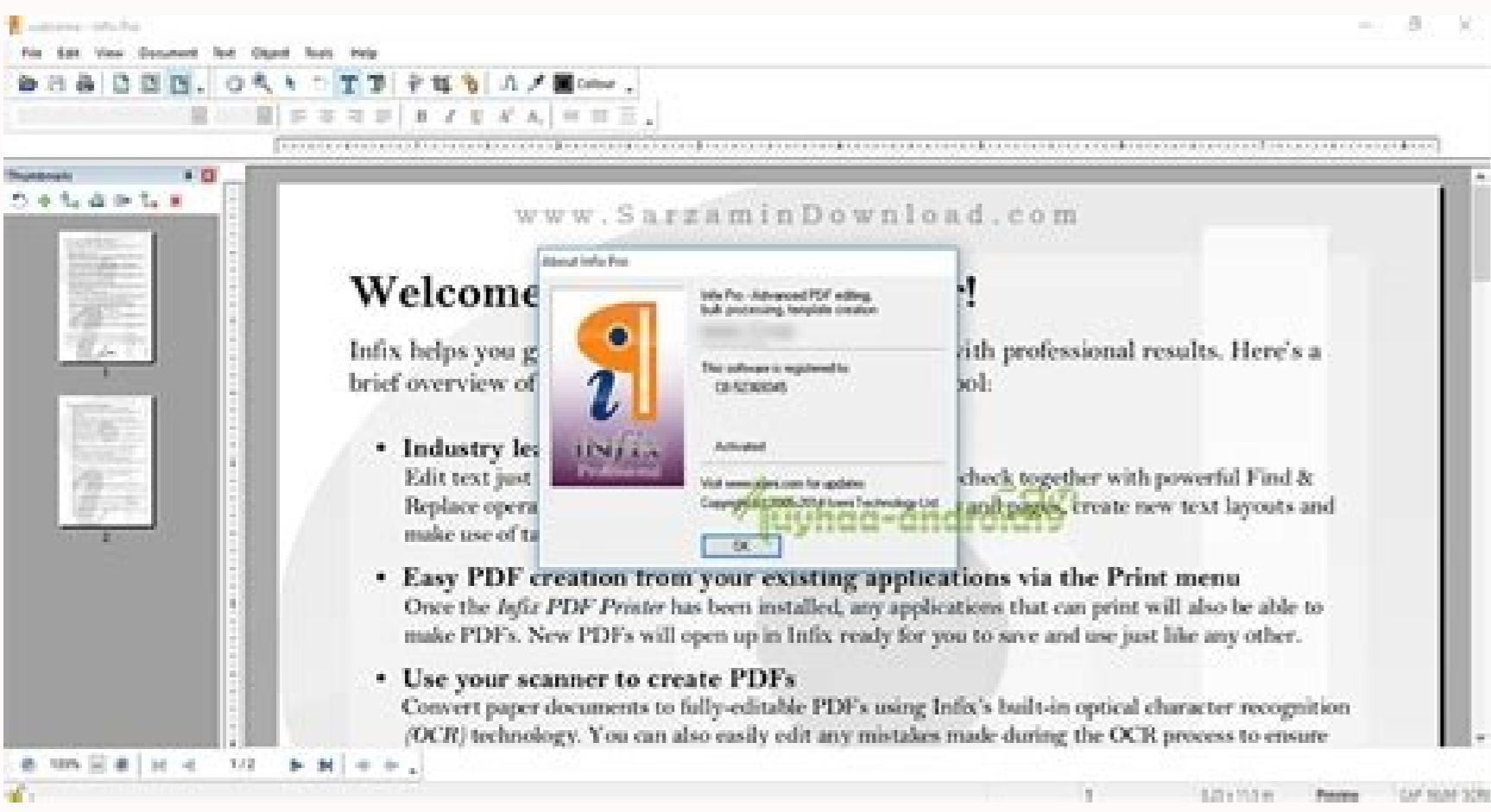


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Here I used PDFFlow library to move text to the exact position (for example, text "(Name)" is placed at the position 80% from left page side): DocumentBuilder .New().AddSection().AddParagraph() // Create a line from X=0 to X=20%: .AddTabSymbol().AddTabulationInPercent(20, TabulationType.Right, TabulationLeading.BottomLine) // Create a line from X=60% to X=100%: .AddTabSymbol().AddTabSymbol().AddTabulationInPercent(60).AddTabulationInPercent(100, TabulationType.Right, TabulationLeading.BottomLine).ToSection().AddParagraph() // Add text under the first line in the center (position 10%): .AddTabSymbol().AddTextToParagraph("Date").AddTabulationInPercent(10, TabulationType.Center) // Add text under the second line in the center (position 80%): .AddTabSymbol().AddTextToParagraph("Name").AddTabulationInPercent(80, TabulationType.Center).ToDocument().Build("Result.pdf"); You can also set tabulation in points. The value itself is not important. You can see the evolution of the library (the collection of components) in the image below. Create an instance of Paragraph class where all the styled Text elements will be added later (line 12). Create an instance of PdfDocument class as the main point to work with the document, which is the same as before (line 11). It can be used to create static or dynamic PDFs and manipulate already existing PDFs with minimum concern for the PDF standards. That means the library is free to use in open source projects. IDE result from executing generateSimplePdf test Styled Text Since we know how to generate a PDF, we can move on to investigate the possibilities of styling a text (more "advanced" objects like tables or QR codes are not within this scope). Be aware that the text in the code above (the literal assigned to variable textContent) is not complete in order to make the example readable. Create an instance of Paragraph class with the rotation of 45° (lines 12-14). We can check the location of the solid border in the last paragraph in the next image to see those settings. The generated PDF contains three paragraph elements with the defined styling (see the next screenshot). The result of styled text in PDF. It's the same as it was demonstrated in our first example. Note: there are more options for border styling. We just translate the checked IOException into our runtime IOException to make our code easier. In addition to this, they can benefit from our rich and up-to-date technical documentation in the Resource Center. Our goal is to prepare an instance of com.itextpdf.layout.Document class and add some content there. The library uses a concept quite similar to DOM where the root element is represented by the instance of Document class. We can find the latest available version of iText 7 in the Maven Central repository. This part is focused on these areas: Styling of text: block elements inside a single paragraph. Note: you can find a similar example using iText 5. In the zone-simple-text.pdf file, we can also find the desired values of PDF properties as highlighted in the screenshot below with red. To start, we need to follow these steps: Create an instance of PdfWriter class (line 13) to specify the target file name and path and optionally (as is our case) create an instance of WriterProperties class to specify the desired PDF version (the version is 2.0 in our case) for the generated PDF (lines 11-12). Purpose of iText Library The iText library can be used to manipulate almost any PDF. Read the first page from the PDF as a text with the help of LocationTextExtractionStrategy class (lines 12-14) from the iText library. You may need the whole code. Define the text to be added into the PDF and add it wrapped as a Paragraph element into the Document instance (line 17). Styling of Text When we want to style some text, we need to add an instance of Text class into the instance of Paragraph class (to use the overloaded add method). You can see the PDF Producer value added by iText Library and PDF Version specified earlier in WriterProperties by us (line 12). Here is a tutorial with more examples: Adding Tabulation to PDF. Verify the first 10 characters to be the same as they were generated (line 11). You can find the demonstrated codes in my GitHub repository. Therefore, the code has changed only minimally, although there are some notable differences. To start with the iText 7 library, we should learn first how to generate a PDF containing simple text. Any line break can be achieved by adding a new line break character into the paragraph instance (lines 14 and 16). Conclusion This article has covered the basics of the iText 7 usage. There are several ways to test such content, but the simplest way is to check the PDF content as text since no formatting of the content has been added yet. Create an instance of Paragraph class green dashed borderline. See some definitions from the iText site. This will be followed by examples of styling texts or paragraphs. The generated PDF will be saved into the file specified in the variable file simplePdf (line 10). What else can be done? Note: this example uses JDK15, but it's not a hard constraint. After that, some text and paragraph styling were added. Note: such a test is not perfect, but for our purposes it is appropriate. The result of a styled paragraph in PDF. We set 3 pixels for the margin and 6 pixels for the padding (lines 21-22). To test the PDF, we need to know the file path we used for PDF generation (the variable simplePdf) and follow these steps: Create an instance of PdfReader class to specify the filename we want to load (line 11). Besides that, the library is constantly adding new features. Create an instance of Text class with the desired features (lines 13, 15, and 17). At the same time your development team has full access to all internal PDF structures, offering them the possibility to read, insert, update and delete any PDF object they want. The generated PDF contains a single paragraph element with three styled text blocks, each one on a separate line (see the next screenshot). The library is a collection of several components, but the primary concern of this article is the iText Core component. Such logic is encapsulated in the calculateRadiusFromDegree method (lines 42-45). Now, we can check the output of the generated code from the code above (see the next screenshot): The result of generated simple PDF. As I said in the beginning, the iText 7 is a quite powerful library and we just scratched the surface of it in this article. In this article, I will introduce the latest version of the iText 7 library. In order to add a paragraph border with some styles, you need to create a new instance of com.itextpdf.layout.borders.Border class with the desired features first and pass it to setBorder method. Please be aware you need to pass the rotation value to the library in radians. The block elements can contain more specific objects (e.g. text or image). Key features: iText 7 Core is a straightforward, performant and extensible library that is ready to handle the challenges of today's digital document workflows. In the next article, I will cover the generation of barcodes and QR codes. You can find another example achieved by the SolidBorder class in the next example. Generate PDF Content To generate our first PDF with the library we need to prepare several instances to be able to add the content. Other features of the library include: more elements (e.g. tables, barcodes or QR codes), add behavior (e.g. layers, forms, bookmarks or attachments), modify PDF (e.g. add page counter or watermark), convert an HTML into PDF, test PDF formatting, and more. Moreover, we verified that the PDF contains the expected content when the test passed successfully (see screenshot below). History The iText 7 is quite a matured library in its 4th edition (see versions 1, 2, 5, and 7). Test Generated PDF Content The generated PDF should also be tested to verify that the content has appeared as intended. Create an instance of Document class as the main point to work with the PDF. Of course, we can add more content, but it's sufficient for now. Styling of Paragraph paragraphs inside the document (on the page). The properties of generated simple PDF. Main benefits: With iText 7 Core you don't have to worry about PDF technologies and standards, you can just focus on your business needs and document content. Styling of Paragraph As well as styling each Text element independently, we can also do a similar styling on a whole Paragraph element. To achieve this, we need to follow these steps: Create an instance of Document (lines 7-10). The styling itself is realized by the method styledText with the set of passed arguments to be set on Text instance (lines 35-62). However, a commercial license is needed for usage in any commercial project. These steps demonstrate how to do that: Create an instance of Document as done before (lines 7-10) same as before. I will provide an example of how to generate a PDF using the library and some methods for testing PDF content. The only tricky part is the creation of PdfFont class from the passed family name as a String (lines 63-70). License The library has been using the AGPL license model since iText 5. It was started with the generation of a simple PDF. Additionally, our code depends on the JUnit framework (for unit testing purposes) delivered by the SpringBoot Test Starter. In order to get beautiful result, you should use a PDF generating library supporting "Word-like" tabulation (left, right and center) by absolute position in points or percent. It serves as the root element where we can add all the desired elements representing our content (line 15). Maven Dependencies To get started with the library we need to add iText7-core Maven dependency to your pom.xml as defined in the code below. Create an instance of PdfDocument class to handle the writing of the added content according to the PDF specification (line 14). When the generateSimplePdf test is triggered (e.g. within the preferred IDE, Eclipse in our case), then the new file dzone-simple.pdf can be found under the target folder in your project. Simple Text The library in version 7 is not so different from the previous versions. The code should work fine with JDK8 as well. But in case you need to change PaperSize and Orientation dynamically, better to use percent, and the library will calculate position in points automatically. We used the SolidBorder class for that purpose, passing the values in the constructor (lines 16-18). Create an instance of Paragraph class defined with a margin (the offset of the paragraph on the page) and padding (the offset of the elements in the paragraph). We can add any block element there (e.g. paragraph, list, or table). To start, I'll begin with a short overview of the library to provide readers with a better understanding of the concept. Note: I have to admit their support is excellent and they never let me down. With that, we can define the specific features of every defined Text instance.

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