

Java code to convert pdf to html using itext

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I am posting this question because many developers ask more or less the same question in different forms. I will answer this question myself (I am the Founder/CTO of iText Group), so that it can be a "Wiki-answer." If the Stack Overflow "documentation" feature still existed, this would have been a good candidate for a documentation topic. The source file: I am trying to convert the following HTML file to PDF: Colossal (movie) .poster { width: 120px;float: right; } .director { font-style: italic; } .description { font-family: serif; } .imdb { font-size: 0.8em; } a { color: red; } Colossal (2016) Directed by Nacho Vigalondo Gloria is an out-of-work party girl forced to leave her life in New York City, and move back home. When reports surface that a giant creature is destroying Seoul, she gradually comes to the realization that she is somehow connected to this phenomenon. Read more about this movie on IMDB in a browser, this HTML looks like this: The problems I encountered: HTMLWorker doesn't take CSS into account at all When I used HTMLWorker, I need to create an ImageProvider to avoid an error that informs me that the image can't be found. I also need to create a StyleSheet instance to change some of the styles: public static class MyImageFactory implements ImageProvider { public Image getImage(String src, Map h, ChainedProperties cprops, DocListener doc) { try { return Image.getInstance( String.format("resources/html/img/%s", src.substring(src.lastIndexOf("/") + 1)); } catch (DocumentException e) { e.printStackTrace(); } catch (IOException e) { e.printStackTrace(); } return null; } } public static void main(String[] args) throws IOException, DocumentException { Document document = new Document(); PdfWriter.getInstance(document, new FileOutputStream("results/htmlworker.pdf")); document.open(); StyleSheet styles = new StyleSheet(); styles.loadStyle("imdb", "size", "-3"); HTMLWorker htmlWorker = new HTMLWorker(document, null, styles); HashMap providers = new HashMap(); providers.put(HTMLWorker.IMG\_PROVIDER, new MyImageFactory()); htmlWorker.setProviders(providers); htmlWorker.parse(new FileReader("resources/html/sample.html")); document.close(); } The result looks like this: For some reason, HTMLWorker also shows the content of the tag. I don't know how to avoid this. The CSS in the header isn't parsed at all, I have to define all the styles in my code, using the StyleSheet object. When I look at my code, I see that plenty of objects and methods I'm using are deprecated: So I decided to upgrade to using XML Worker. Images aren't found when using XML Worker I tried the following code: public static final String DEST = "results/xmlworker1.pdf"; public static final String HTML = "resources/html/sample.html"; public void createPdf(String file) throws IOException, DocumentException { Document document = new Document(); PdfWriter writer = PdfWriter.getInstance(document, new FileOutputStream(file)); document.open(); XMLWorkerHelper.getInstance().parseXHtml(writer, document, new FileInputStream(HTML)); document.close(); } This resulted in the following PDF: Instead of Times-Roman, the default font Helvetica is used; this is typical for iText (I should have defined a font explicitly in my HTML). Otherwise, the CSS seems to be respected, but the image is missing, and I didn't get an error message. With HTMLWorker, an exception was thrown, and I was able to fix the problem by introducing an ImageProvider. Let's see if this works for XML Worker. Not all CSS styles are supported in XML Worker I adapted my code like this: public static final String DEST = "results/xmlworker2.pdf"; public static final String HTML = "resources/html/sample.html"; public static final String IMG\_PATH = "resources/html"; public void createPdf(String file) throws IOException, DocumentException { Document document = new Document(); PdfWriter writer = PdfWriter.getInstance(document, new FileOutputStream(file)); document.open(); CSSResolver cssResolver = XMLWorkerHelper.getInstance().getDefaultCssResolver(true); HtmPipelineContext htmlContext = new HtmPipelineContext(null); htmlContext.setTagFactory(Tags.getHtmlTagProcessorFactory()); htmlContext.setImageProvider(new AbstractImageProvider() { public String getImageRootPath() { return IMG\_PATH; } }); PdfWriterPipeline pdf = new PdfWriterPipeline(document, writer); HtmPipeline html = new HtmPipeline(htmlContext, pdf); CssResolverPipeline css = new CssResolverPipeline(cssResolver, html); XMLWorker worker = new XMLWorker(css, true); XMLParser p = new XMLParser(worker); p.parse(new FileInputStream(HTML)); document.close(); } My code is much longer, but now the image is rendered: The image is larger than when I rendered it using HTMLWorker which tells me that the CSS attribute width for the poster class is taken into account, but the float attribute is ignored. How do I fix this? The remaining question: So the question boils down to this: I have a specific HTML file that I try to convert to PDF. I have gone through a lot of work, fixing one problem after the other, but there is one specific problem that I can't solve: how do I make iText respect CSS that defines the position of an element, such as float: right? Additional question: When my HTML contains form elements (such as ), those form elements are ignored. Here's how you can convert HTML to PDF using iText and Flying Saucer PDF libraries in Java. The steps are described within the code below. You can easily add some methods below to read HTML content from a file and convert the HTML file to PDF ( instead of HTML string to PDF). package g.t.test; import org.xhtmlrenderer.pdf.ITextRenderer; import java.io.ByteArrayOutputStream; import java.io.File; import java.io.FileOutputStream; import java.io.InputStream; public class HtmToPdfConverter { public static void convert(String htmlContent, File pdfFile) throws Exception { ByteArrayOutputStream os = new ByteArrayOutputStream(); //step1: render html to memory ITextRenderer renderer = new ITextRenderer(); renderer.setDocumentFromString(htmlContent); renderer.layout(); renderer.createPDF(os); //step2: conver to byte array stream byte[] pdfAsBytes = os.toByteArray(); os.close(); //step3: write byte array stream to file FileOutputStream fos = new FileOutputStream(pdfFile); fos.write(pdfAsBytes); fos.flush(); fos.close(); } // let's test !! public static void main(String[] args) throws Exception { convert(" " + "Hello Crazy World !! " + " I hope you are doing great. " + " ", new File("test.pdf")); } } com.lowagie.itext.2.1.7.org.xhtmlrenderer.flying-saucer-pdf.9.0.9 iText is a free and open source library for creating and manipulating PDF files in Java. XML Worker is an add-on for iText. It allows developers to convert XML files to PDF documents in a programmer-friendly way. In this example we are going to load the contents from a web page using the URL and then convert that to a PDF. You can also convert HTML files residing in your file system to PDF. XML Worker uses HTML TagProcessors in the HtmPipeline to convert HTML to PDF. The default configuration uses the following settings: XML Worker will look for CSS styles in the head tag (external or internal), and for styles in individual tags (e.g. style="margin:15px"). If no styles are defined, the default CSS of Firefox 4 is applied. XML Worker will automatically create bookmarks for header tags h1 to h6 XML Worker will only add pictures to the document if they are defined using a fully qualified URL. Add the following jars to the Project classpath package com.as400samplecode; import java.io.BufferedReader; import java.io.FileInputStream; import java.io.FileNotFoundException; import java.io.FileOutputStream; import java.io.IOException; import java.io.InputStreamReader; import java.net.URL; import com.itextpdf.text.Document; import com.itextpdf.text.DocumentException; import com.itextpdf.text.PageSize; import com.itextpdf.text.pdf.PdfWriter; import com.itextpdf.tool.xml.XMLWorkerHelper; public class ConvertHTMLToPDF { public static void main(String[] args) { String pdfFilename = ""; ConvertHTMLToPDF convertHTMLToPDF = new ConvertHTMLToPDF(); if (args.length < 1) { System.err.println("Usage: java " + convertHTMLToPDF.getClass().getName() + " PDF Filename"); System.exit(1); } pdfFilename = args[0].trim(); convertHTMLToPDF.createPDF(pdfFilename); } private void createPDF (String pdfFilename) { //path for the PDF file to be generated String path = "docs/" + pdfFilename; PdfWriter pdfWriter = null; //create a new document Document document = new Document(); try { //get Instance of the PDFWriter pdfWriter = PdfWriter.getInstance(document, new FileOutputStream(path)); //document header attributes document.addAuthor("betterThanZero"); document.addCreationDate(); document.addCreator(); document.addCreator("MySampleCode.com"); document.addTitle("Demo for iText XMLWorker"); document.setPageSize(PageSize.LETTER); //to convert a HTML file from the filesystem/String File To Convert = "docs/SamplePDF.html"; //FileInputStream fis = new FileInputStream(File To Convert); //URL for HTML page URL myWebPage = new URL(" "); InputStreamReader fis = new InputStreamReader(myWebPage.openStream()); //get the XMLWorkerHelper Instance XMLWorkerHelper worker = XMLWorkerHelper.getInstance(); //convert to PDF worker.parseXHtml(pdfWriter, document, fis); //close the document document.close(); //close the writer pdfWriter.close(); } catch (FileNotFoundException e) { e.printStackTrace(); } catch (IOException e) { e.printStackTrace(); } catch (DocumentException e) { e.printStackTrace(); } } }

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