Experiência de programador

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A Java-based application used to fill Word (docx) files.

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Introduction

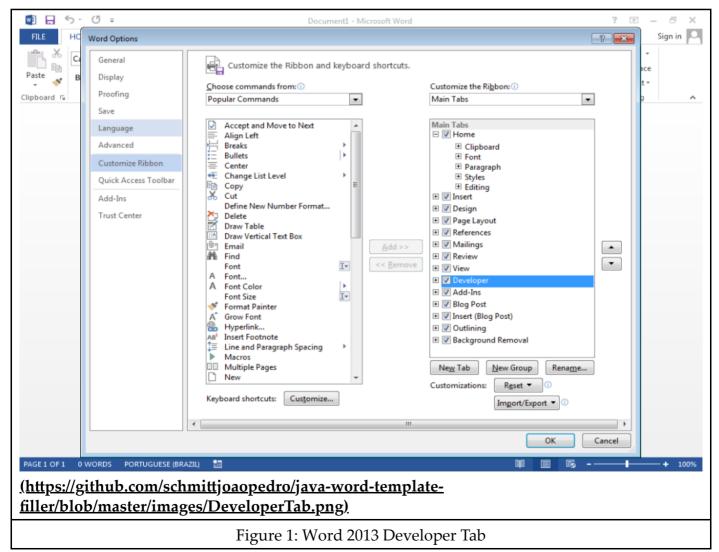
Companies are every time demanding more automation tools for documents generation, these tools are used to speed up contracts generation and client documentation. To support this necessity, tools like Word have been widely used and integrated with different technologies to fill data in template files. In this context, the Java programming language combined with the library DOCX4J allow, by programming, to generate Word documents filled with data from XML files. However, besides the extensive library documentation and community support available on the internet, there is still a lack for simple guides, and this article proposes to offer a very simple guide (step-by-step) to generate Word documents using the DOCX4J library.

(https://github.com/schmittjoaopedro/java-word-template-filler#guide-to-generate-word-files-with-java)Guide to generate Word files with Java

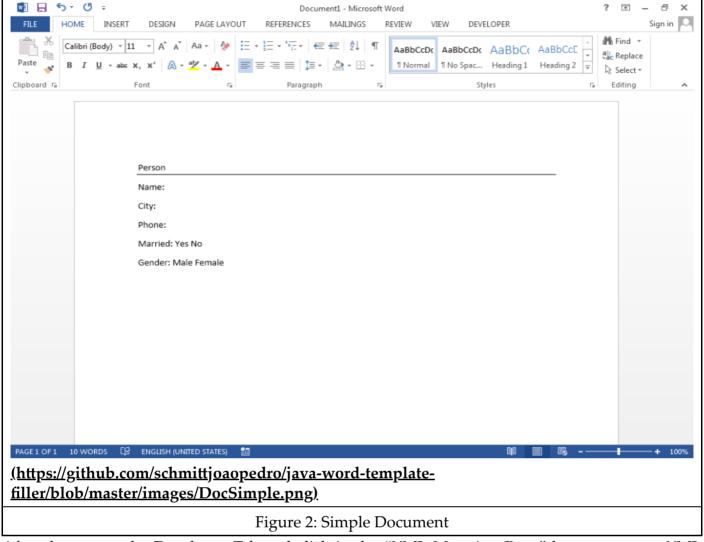
Word documents generation is based on XML source files. In this example, the XML structure used to fill the Word template is presented below:

With the XML structure defined, open the Word and enable the developer mode following the steps below (Figure 1):

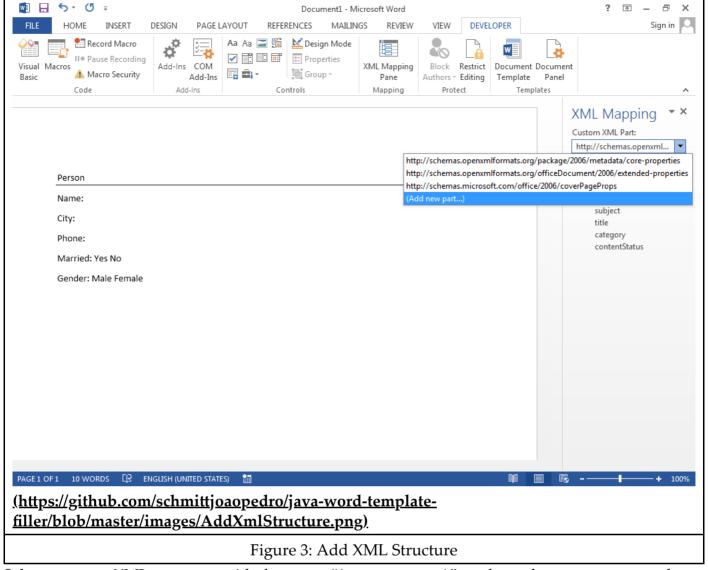
- Select File > Options > Customize Ribbon
- On the right side of the panel select "Main Tabs" and mark the "Developer" checkbox.
- o Click OK.



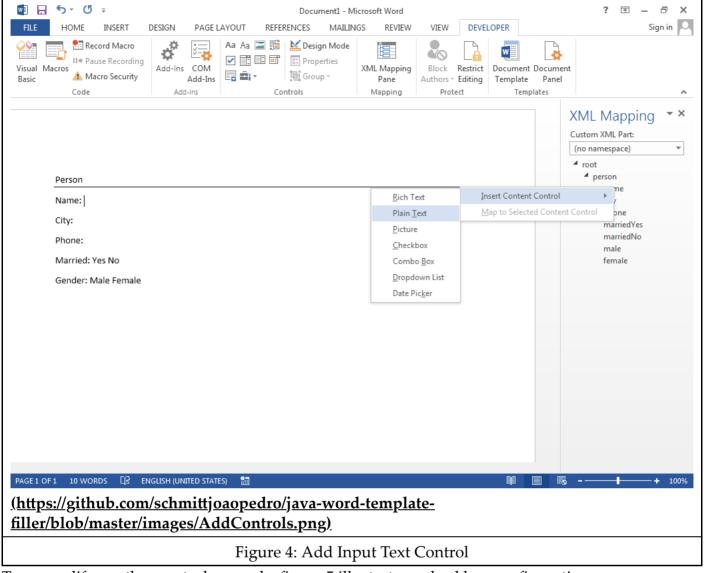
With the Developer tab activated, create a simple document template (Figure 2).



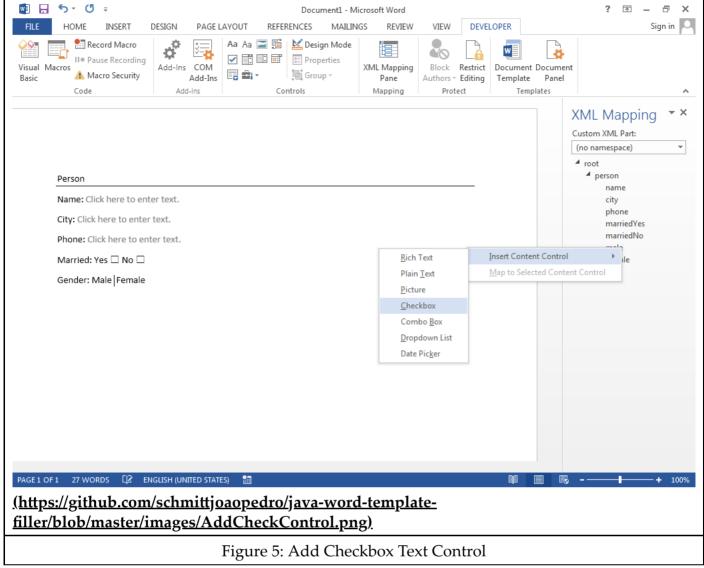
After that, go to the Developer Tab and click in the "XML Mapping Pane" button to open XML data configuration, then in the "Custom XML Part" combo select "Add a new part" (Figure 3).



Select our new XML structure with the name "(no namespace)", and use the text cursor to select a position for the control. After that, add a new Plain Text control using the XML Structure. An example is presented in figure 4.



To exemplify another control example, figure 5 illustrates a checkbox configuration.

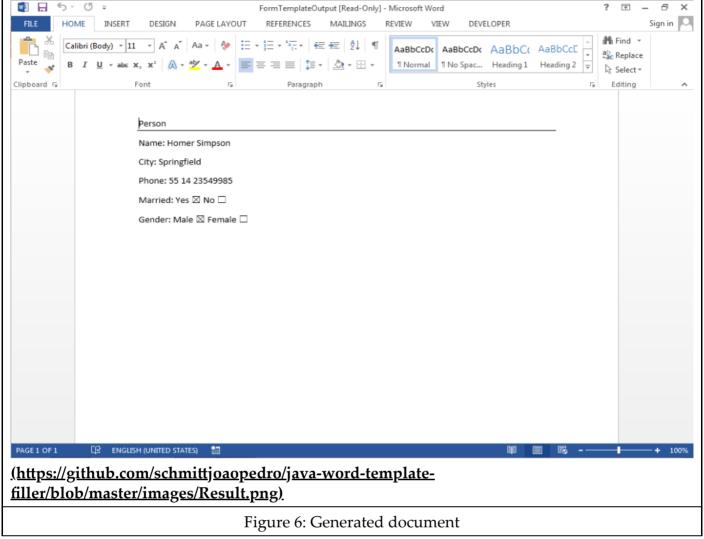


Finally, save the Word document and create a simple Java project using the <u>DOCX4J</u> (https://www.docx4java.org/) library. The code necessary to process the Word document is presented below.

```
package com.github.schmittjoaopedro;
import org.docx4j.Docx4J;
import org.docx4j.openpackaging.packages.WordprocessingMLPackage;
import java.io.File;
import java.io.FileInputStream;
public class WordTest {
    public static final String input_DOCX = "E:\\Temp5\\Word document templat
    public static final String input XML = "E:\\Temp5\\Word document data.xm]
    public static final String output DOCX = "E:\\Temp5\\Word document output
    public static void main(String[] args) throws Exception {
        WordprocessingMLPackage wordMLPackage = Docx4J.load(new File(input DC
        FileInputStream xmlStream = new FileInputStream(new File(input XML));
        Docx4J.bind(wordMLPackage, xmlStream, Docx4J.FLAG BIND INSERT XML | [
        Docx4J.save(wordMLPackage, new File(output DOCX), Docx4J.FLAG NONE);
        System.out.println("Saved: " + output DOCX);
    }
}
```

Execute the above program with the XML data presented below.

If everything works fine, a Word output file will be generated, with the data presented in figure 6.



The project source code is available in the <u>GitHub (https://github.com/schmittjoaopedro/javaword-template-filler)</u>.

Com as etiquetas:

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