Instantiate WordprocessingMLPackage wordMLPackage

```
=WordprocessingMLPackage
.load(java.io.File docxFile)
=WordprocessingMLPackage.
load(InputStream is)
OR (v3.0)
final PartStore partLoader = new
ZipPartStore(is);
final Load3 loader
Load3(partLoader);
loader.get();
```

part-level operations

```
Create
=WordprocessingMLPackage.
createPackage();
  automatically creates
// MainDocumentPart
```

```
Import from XHTML
     =WordprocessingMLPackage
    createPackage();
// Convert the XHTML, and add it
S
      / into the empty docx we made
     wordMLPackage
     .getMainDocumentPart()
     .getContent().addAll(
     XHTMLImporter.convert(
     new File(inputfilepath), null,
     wordMLPackage) );
```

Merge/concatenate

There is a paid extension to do this.

Try it at

http://webapp.docx4java.org/ OnlineDemo/forms/upload_ MergeDocx.xhtml

Manipulate wordMLPackage contents at part level

```
Get part
MainDocumentPart mdp =
wordMLPackage.getMainDocumentPart();
StyleDefinitionsPart stylesPart
mdp.getStyleDefinitionsPart();
mdp.getRelationshipsPart().getPart(relId);
wordMLPackage.getParts().get(partName)
```

```
Create/add part
   type you want, using its constructor
   you want to attach it to (here, 'parent')
parent.addTargetPart(
  newPart, mode);
   enum AddPartBehaviour
```

Tip: Different parts are represented by different classes. Some are XML. some are binary. Upload an existing docx at webapp.docx4java.org to see what parts are in it.

part content (JAXB level) operations

```
Get the content of the part
part.getJaxbElement(); // For parts with JAXB content
List<Object> contents = mdp.getContent();
// there are also binary, and a few non
// not covered here
                                           AXB XML parts,
```

find content / insertion point

```
by traversing
Finder finder = new Finder(SomeObject.class); // <-- alter to suit
new TraversalUtil(mdp.getContent(), finder);</pre>
public static class Finder extends CallbackImpl {
  protected Class<?> typeToFind;
  protected Finder(Class<?> typeToFind) { this.typeToFind = typeToFind;
  public List<Object> results = new ArrayList<Object>();
  @Override public List<Object> apply(Object o) {
            // Adapt as required
if (o.getClass().equals(typeToFind)) {
   results.add(o); }
return null; }}
  via XPath
```

```
String xpath = "//w:t[contains(text(), 'scaled')]";
List<Object> list = documentPart.getJAXBNodesViaXPath(xpath, false);
     Beware using XPath.
```

Edit

```
// the object as you see fit
```

http://webapp.docx4java.org/

Create/Add

You can generate code http://webapp.docx4java.org/

/ Then, you typically add List<Object> contents

automation helpers

S

Content control

data

binding

(recommended!)

MERGEFIE Variable replace 5 processi

Hints and tips Maven

<dependency>
 <groupId>org.docx4j</groupId> <artifactId>docx4j</artifactId> <version>2.8.1 </dependency>

See further search.maven.org and docx4j-from-maven-central

docx4j jars

docx4j's dependencies can be had from maven. Also listed in build.xml, and downloadable from http://www.docx4java.org/docx4j/

JAXB implementation

JAXB is included in Java 6 and 7. Otherwise, install the reference implementation or EclipseLink MOXy

docx4j source code

Sample code

Logging

docx4j currently uses log4j. log4j.xml

docx4j.properties

Your docx

Explore it and generate code at webapp.docx4java.org

JAXB concepts

Marshalling, Unmarshalling

Your code to XML

XmlUtils.marshaltoString

OpenXML help

See ECMA 376 4ed, part 1 or Wouter's Open XML Explained book

Getting help

For help with docx4j, you can post in the relevant forum, xor on StackOverflow.

Production deployment

See the deployment forums for help with specific app servers, and consider purchasing production support from sales@plutext.com

Finish up

Save

```
=WordprocessingMLPackage
.save(java.io.File docxFile)
use SaveToZipFile to save to
```

a zip file or output stream use io3.Save with your own

PartStore implementation

```
org.docx4j.convert.out
.pdf.PdfConversion c
= new org.docx4j.convert.out
.pdf.viaXSLFO.Conversion(
   wordMLPackage);
OutputStream os = ...
c.output(os.
```

new PdfSettings());

(X)HTML

= new HtmlExporterNG2(); HtmlSettings htmlSettings= new HtmlSettings(); // Set as required; see ConvertOutHtml OutputStream os = ...
javax.xml.transform.stream.StreamResult result = new StreamResult(os); exporter.html(wordMLPackage, result, htmlSettings);

Extract text

org.docx4j.wml.Document wmlDoc= mdp.getJaxbElement(); Writer out = new OutputStreamWriter(

System.out); // or whatever TextUtils.extractText(

wmlDoc, out); out.close();