

WordPress to L^AT_EX with Pandoc and J: Using `TeXfrWp.xml.ijs` (3)

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In this post I will describe how to use the J script `TeXfrWp.xml.ijs` to generate L^AT_EX source from WordPress export XML. I am assuming you have worked through (Part 1) and (Part 2) and have:

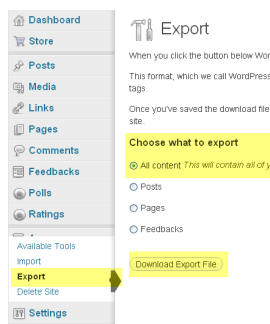


WordPress to L^AT_EX

1. Successfully installed and tested [Pandoc](#).
2. Installed and tested [a version of J](#).
3. Set up appropriate directories (Part 2).
4. Know how to use L^AT_EX.

Item #4 is a *big* if. Inexperienced L^AT_EX users will probably not enjoy a lot of success with this procedure as the source generated by `TeXfrWp.xml.ijs` requires manual edits to produce good results. However, if you're not a L^AT_EX guru, do not get discouraged. It's not difficult to create blog documents like [bm.pdf](#).

Step 1: download WordPress Export XML How to download WordPress export XML is described [here](#). Basically you go to your blog's dashboard, select **Tools**, choose **Export** and select the **All content** option.



Tools > Export > All Content

When you press the **Download Export File** button your browser will download a single XML file that contains all your posts and comments. Remember where you save this file. I put my export XML [here](#).

```
c:/pd/blog/wordpress/analyzethedatanotthedrive1.wordpress.xml
```

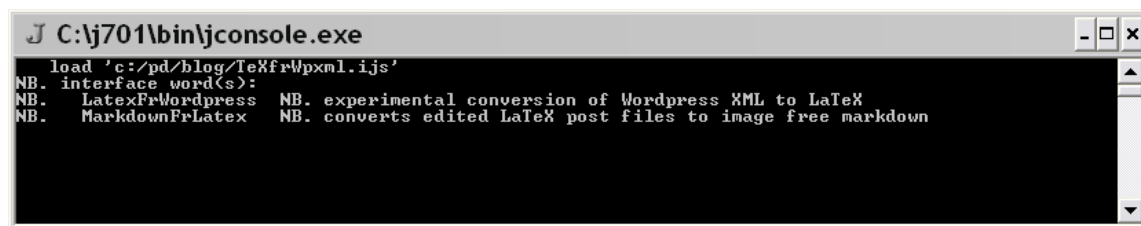
Step 2: download `TeXfrWpxml.ijs` Download [TeXfrWpxml.ijs](#) and remember where you save it. I put this script here.

```
c:/pd/blog/TeXfrWpxml.ijs
```

Step 3: start J and load `TeXfrWpxml.ijs` `TeXfrWpxml.ijs` was generated from [JOD dictionaries](#). With JOD it's easy to capture root word dependencies and produce complete standalone scripts. `TeXfrWpxml.ijs` needs only the standard J load profile to run. It does not require any libraries or external references and should run on all Windows and Linux versions of J after 6.02. Loading this script is a simple matter of executing:

```
load 'c:/pd/blog/TeXfrWpxml.ijs'
```

The following shows this script running in a J 7.01 console. The console is the most stripped down J runtime.



```
J C:\j701\bin\jconsole.exe
load 'c:/pd/blog/TeXfrWpxml.ijs'
NB. interface word(s):
NB. LatexFrWordpress NB. experimental conversion of Wordpress XML to LaTeX
NB. MarkdownFrLatex NB. converts edited LaTeX post files to image free markdown
```

Step 4: review directories and necessary \LaTeX files The conversion script assumes proper directories are available up: see [Part 2](#). The first time you run `TeXfrWpxml.ijs` it's a good idea to check that the directories and files the script is expecting are the ones you want to process. You can verify the settings by displaying `TEXFRWPDIR`, `TEXINCLUSIONS`, `TEXROOTFILE` and `TEXPREAMBLE`.

```
TEXPREAMBLE
bmamble.tex
TEXFRWPDIR
c:/pd/blog/wp2latex/
TEXINCLUSIONS
inclusions
TEXROOTFILE
bm.tex
TEXPREAMBLE
```

```
bmamble.tex
```

If all these directories and files exist go to step (5).

Step 5: make sure you are online The first time you run the converter it will attempt to download all the images referenced in your blog. This is where `wget.exe` gets executed. Obviously to download anything you must be connected to the Internet.

Step 6: run LatexFrWordpress Run the verb `LatexFrWordpress`. The monadic version of this verb takes a single argument: the complete path and file name of the export XML file you downloaded in step (1).

```
xml=: 'c:/pd/blog/wordpress/analyzethedatanotthedrive1.wordpress.xml'  
  
LatexFrWordpress xml
```

As the verb runs you will see output like:

```
LatexFrWordpress xml  
Whats In it for Facebook?  
downloading: c:/pd/blog/wp2latex/inclusions/demotivational-posters-facebook-you.jpg  
1 downloaded; 0 not downloaded; 0 skipped  
Fake Programming  
downloading: c:/pd/blog/wp2latex/inclusions/672169130_vajvn-M.png  
1 downloaded; 0 not downloaded; 0 skipped  
Laws or Suggestions  
downloading: c:/pd/blog/wp2latex/inclusions/i-B5mfdRF-M.jpg  
1 downloaded; 0 not downloaded; 0 skipped  
Lens Lust  
  
... many lines omitted ...  
  
downloading: c:/pd/blog/wp2latex/inclusions/i-mNK4RHL-M.png  
1 downloaded; 0 not downloaded; 0 skipped  
WordPress to LaTeX with Pandoc and J: LaTeX Directories (Part 2)  
0 downloaded; 0 not downloaded; 1 skipped  
+-++  
|1||  
+-++
```

When the verb terminates you should have a directory `c:/pd/blog/wp2latex` full of `*.tex`

files: one file for each blog post. Now the hard work starts.

Step 7: editing L^AT_EX posts The conversion from WordPress XML to L^AT_EX produces files that require manual edits. The more images, video, tables and other elements in your posts the more demanding these edits will become. My blog has about one image per post. Most of these images are wrapped by text. L^AT_EX has a mind of its own when it comes to *floating figures* and getting illustrations to behave requires far more parameter tweaking than it should. This is a longstanding weakness of L^AT_EX that pretty much everyone bitches about. My advice is start at the front of your document and work through it post by post. The files generated by `LatexFrWordpress` do not attempt to place figures for you but they do bolt in ready-made figure templates as comments that you can experiment with. Each post file is also set up for separate L^AT_EX compilation. You don't have to compile your entire blog to tweak one post. The one good thing about this edit step is once you have sorted out your old posts you do not have to revisit them unless you make major global document changes. The next time you run `LatexFrWordpress` it will only bring down new posts and images.

Step 8: compile your L^AT_EX blog I use batch files and shell scripts to drive L^AT_EX compilations. I processed my blog with this batch file.

```
echo off
rem process blog posting (bm.tex) root file
title Running Blog Master/LaTeX ...

rem first pass for aux file needed by bibtex
lualatex bm

rem generate/reset bbl file
bibtex bm
makeindex bm

rem resolve all internal references - may
rem comment out when debugging entire document
lualatex bm
lualatex bm

rem display pdf - point to preferred PDF reader
title Blog Master/LaTeX complete displaying PDF ...
"C:\Program Files\SumatraPDF\SumatraPDF.exe" bm.pdf
```

The presence of Unicode APL, see [this post](#), forced me to use lua^LTeX. I needed some very nonstandard APL fonts. See [bm.pdf](#) — also available on the [Download this Blog](#) page — to judge the effectiveness of my edits. Producing nice figure laden typeset blog documents is work but, as I will describe in the next post, *producing image free eBooks is a simple and far less laborious variation on this process*.