

this could go as subsection 5.8

## 5.8 Adding other typesetting commands

TeXworks comes with a set of predefined typesetting modes that should work for most users of LaTeX, especially for beginners that usually will select pdf<sub>l</sub>atex or latex and hit the typesetting button as described in section ???. But after a while you may feel the need to add other typesetting modes to TeXworks that are not predefined. This subsection explains how to add an typesetting mode to you copy of TeXWorks.

When your installation is TeXLive, the following works on the command line:

```
latexmk -pdf -r /Users/daniel/Library/TeXworks/pdflatexmkrc example.tex
```

where latexmk is a script “for running LaTeX the correct number of times to resolve cross references, etc; it also runs auxiliary programs (bib<sub>t</sub>ex, makeindex if necessary, and dvips and/or a previewer as requested).”<sup>1</sup> The option `-pdf` tells latexmk to use pdf<sub>l</sub>atex for direct generation of a pdf. The next option `-r /Users/daniel/Library/TeXworks/pdflatexmkrc` loads a configuration file that should be used by latexmk. And finally, `example.tex` is the file that should be typeset.

To add a typesetting mode to texworks that is similar to the command line above you could do the following:

1. Create a file `/Users/daniel/Library/TeXworks/pdflatexmkrc`. The path can be any path you like, but the filename should be `pdflatexmkrc`. Here we chose the TeXWorks-Folder of a user daniel. The file should contain the line

```
$pdflatex = 'pdflatex --shell-escape --synctex=1 %0 %S';
```

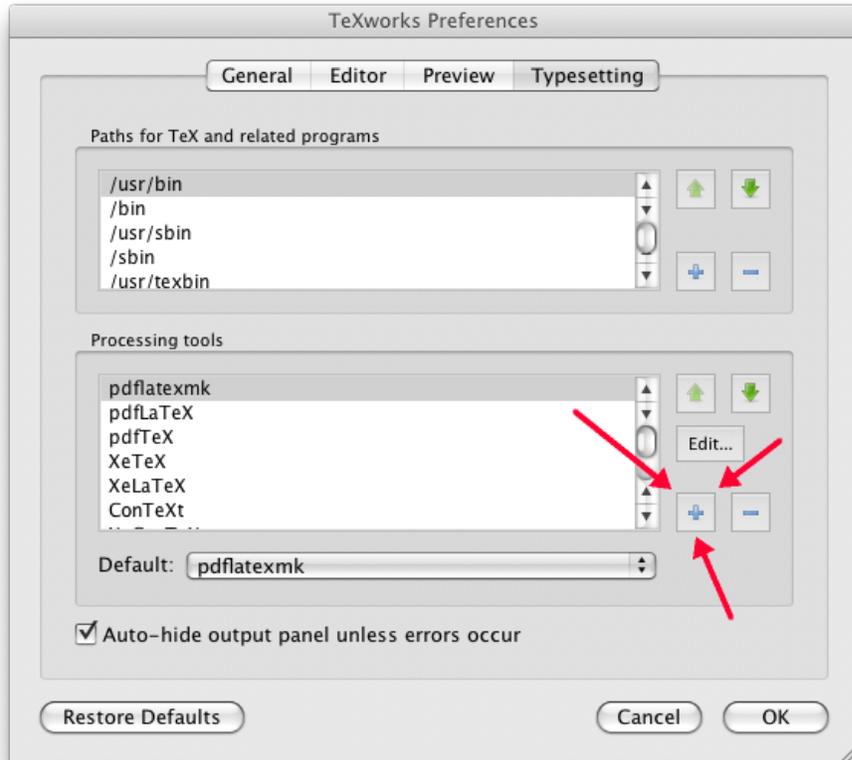
This tells latexmk to use the `--shell-escape` option and to support synctex. There a lot more possible things you can configure in that configuration file, please consult the documentation if you are interested.<sup>2</sup>

2. Go to Preferences → Typesetting. Hit the -button in the lower part of the Window that is titled “Processing tools”:

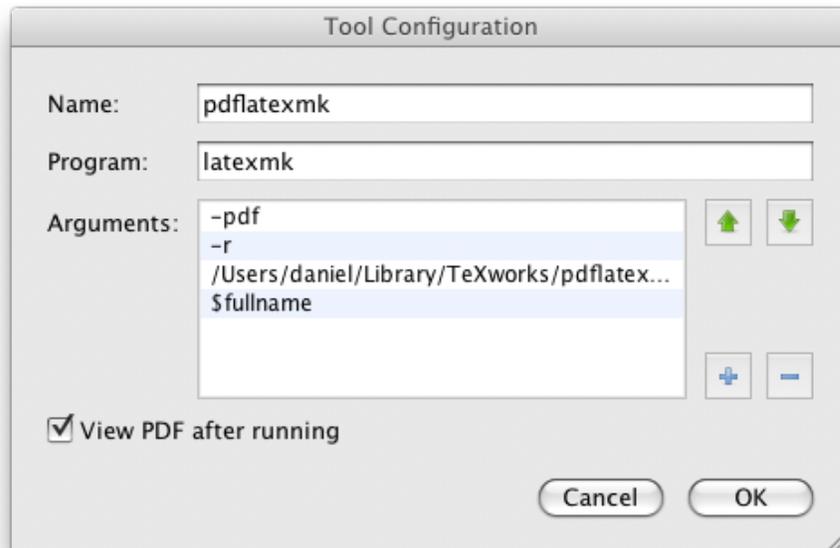
---

<sup>1</sup>This is a quote from the website <http://www.phys.psu.edu/~collins/software/latexmk/>.

<sup>2</sup>Herb Schulz provides several examples at <http://homepage.mac.com/herbs2> that are intended originally for the TeXShop on Mac OS X.



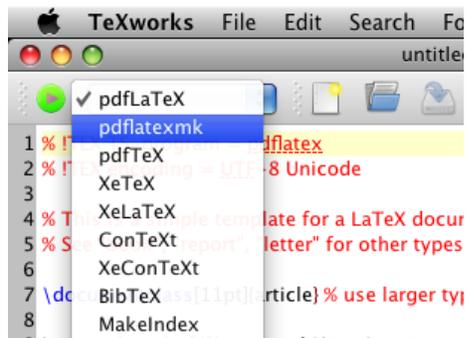
3. In the window that opens, use the -button and the arrows and fill the form like this:



Note that every part of the command

```
latexmk -pdf -r /Users/daniel/Library/TeXworks/pdflatexmkrc example.tex
```

goes in a separate line! When you are done, press ok. Now your typesetting menu contains a new entry:



You can now choose it before you hit the typesetting button, you can make it your default typesetting mode and you can add a line

```
% !TEX TS-program = pdflatexmk
```

to your file to use it – as it was explained before in section +++++.

By the way: The command you have just added will run `pdflatex` and `bibtex` such just in the right order and as many times as is necessary to compile a pdf from a tex file that contains a bibliography. Try this one, if you like:

```
\documentclass[12pt]{amsart}

\usepackage{filecontents}
\begin{filecontents}{bib-data.bib}
@BOOK{texbook,
  author = "Donald E. Knuth",
  title= "The {\TeX}book",
  publisher = "Addison-Wesley",
  year = 1984
}
\end{filecontents}

\begin{document}

This is a test - \cite{TeXbook}.

\bibliographystyle{plain}
\bibliography{bib-data}

\end{document}
```