A One-Page Guide to Using noweb with LATEX

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The noweb file foo.nw

Documentation

@ in column 1 of a line by itself starts a documentation chunk.

Text is in \LaTeX ; use [[...]] for embedded code fragments.

noweave automatically wraps file in

```
\documentclass{article}
\usepackage{noweb}
\begin{document}
:
\end{document}
```

To avoid wrapper, put \documentclass and \usepackage in your source and use noweave -delay.

Code

<<... name of chunk...>= in column 1 of a line by itself starts a code chunk.

Code is in any language; use <<...>> to include other code chunks by reference.

You can write multiple code chunks with the same name; they are concatenated.

Name chunks inside functions with verbs, e.g., $\langle copy \ all \ lines \ from \ in \ to \ out, \ adding \ markup \rangle$.

Name chunks holding declarations with nouns, e.g., $\langle private\ function\ prototypes \rangle$ or $\langle definitions\ of\ exported\ functions \rangle$.

Name top-level "root" chunks after the files they are to represent, e.g., <<foo.c>>= or <<foo.h>>=.

For emacs users: A first line of % -*- mode: Noweb; noweb-code-mode: c-mode -*- is useful (to set editing mode for code chunks). The Unix teTeX distribution comes with helpful Info files that cover LATEX and dvips.

Typical Commands

```
notangle -L -Rfoo.c foo.nw > foo.c
notangle -Rfoo.h foo.nw | cpif foo.h
noweave -filter 12h -index -html foo.nw > foo.html
noweave -x foo.nw > foo.tex
latex foo; latex foo
latex '\scrollmode \input foo'
dvips -o foo.ps foo
```

Extract file foo.c, with #line
Extract file foo.h if it has changed (without #line).
Create HTML, converting documentation from LATEX.
Create LATEX document with cross-reference, no index.
Process LATEX into "device-independent" (dvi) file.
Alternate LATEX command for use in Makefile.
Convert foo.dvi into PostScript.

Minimal LATEX

```
Fonts \emph{emphasis}
\textbf{bold}
\texttt{typewriter}
\textit{italics}
\textsf{sans serif}
\textsc{SMALL CAPS}

Lists List of items
```

sts	List of items	List of items
	\begin{itemize}	
	\item one	• one
	\item two	• two
	\item three	
	\end{itemize}	\bullet three
	Also \begin{enumerate} for numbered lists.	

Get the right version; you want \LaTeX 2.09.