

Literate Programming

Testable Documentation

My ongoing saga of using Noweb in LyX

In the beginning...

I started with a Microsoft Word docx document
Started editing it in OpenOffice Writer, but...

Soon it crashed and I had to start a clean doc.

After my 1st release, I started converting to LyX

Can't remember how, but indications are...

AbiWord (<http://www.abisource.com/>) uses...

wvWare (<http://wvware.sourceforge.net/>) or ...

LyX imports using the same tool...

wvCleanLatex

LyX: Document Settings

Mostly std, except the following:

Document class: article (Noweb)

Graphics driver: Dvips

Uncheck: Use refstyle (not prettyref)...

Modules: Custom Header/Footerlines

Fonts: Base Size: 10

...continued on next slide...

LyX: Document Settings continued

Text Layout: Vertical Space: SmallSkip

Page Layout: Headings style: fancy

Page Margins: Innner = Outer = 2 cm

Language: Other: West. Euro. (ISO 8859-1)

PDF Properties: Use hyperref support

LaTeX Preamble: `\input{Configuration.tex}`

The common Configuration.tex on next slide...

Configuration.tex

Started with wvWare's template...

```
%Document generated by wvWare/wvWare version 1.2.4
%wvWare written by Caolan.McNamara@ul.ie
%http://wvware.sourceforge.net
\@ifundefined{definecolor}
  {\usepackage{color}}{}
\usepackage[dvips]{graphics}\usepackage{longtable}\usepackage{times}
```

Then I added:

```
\usepackage{comment}\usepackage{lastpage}
```

Configuration.tex continued

After the end of the wvWare entries, I added...

```
\lhead{Confidential} \chead{} \rhead{\jobname}
\lfoot{Confidential} \cfoot{} \rfoot{Page \thepage\ of \pageref{LastPage}}

\includecomment{Foo}\excludecomment{Bar}
\newcommand\projectVersion{1.0.0.5}
\newcommand\projectDate{02/17/12}

\begin{Foo}
\newcommand\projectName{Foo portion of FooBar}
\end{Foo}

\begin{Bar}
\newcommand\projectName{Bar portion of FooBar}
\end{Bar}
```