

Self-documenting authoring example

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Using m4...

1 Some links

We will use M4

2 Detailed examples

2.1 Creating a “ToDo” tag

Here is the M4 code:

```
define(TODO, ifelse(_output_format, HTML ,
{bypass end}<span style="color: red; background-color: yellow">T0-D0</span>{end},
{bypass end}\textcolor{red}{T0-D0}{end}))dnl
```

so, with the command:

```
m4 -D_output_format="LATEX" main.brtx | brtx [-html|-latex]
```

with a TODO, the output generated by brtx, will have a **TO-DO**

2.2 Using command line definitions

Here we have the compilation date: Sun Oct 2 14:40:43 EDT 2011

For that we just passed the source:

```
Here we have compilation date: {t|_todaydate}
```

through the command:

```
m4 -D_todaydate="$(date)" main.brtx > main.brtx.tmp
```

2.3 Citations

Let's say we want to use BibTeX for LaTeX output and that we have a bibliography site (./biblio/<refname>.html or ./biblio.html#<refname>). We define CITATION:

```
define(CITATION, ifelse(_output_format , HTML,
[{\link ./biblio/$1.html|$1}],
{bypass end}\cite{$1}{end}))dnl
```

so that

CITATION(mondet08bracetax)

will give us:

```
{bypass end}\cite{mondet08bracetax}{end}
```

2.4 Using include

With a simple:

```
{code verycomplexend}  
include(./Makefile)  
{verycomplexend}
```

we obtain:

```
EXAMPLE_SITE_HTML=main.html main.tex  
  
EXAMPLE_SITE_VIM= Makefile.html main.brtx.html  
  
EXAMPLE_SITE= $(EXAMPLE_SITE_HTML) $(EXAMPLE_SITE_VIM) main.pdf main.tex  
  
all: $(EXAMPLE_SITE)  
  
.PHONY: nopdf  
  
nopdf: $(EXAMPLE_SITE_HTML) $(EXAMPLE_SITE_VIM)  
  
#  
# Generate the HTML page from source:  
#           m4           brtx -html           brtx -prospro  
# source bracetax + M4 ---> pure bracetax ---> HTML ---> HTML  
#  
HEVEA_OR_NOT= hevea || echo NoHeveaFound  
main.html: main.brtx  
m4 -D_todaydate="date" -D_output_format="HTML" main.brtx > main.brtx.tmp  
$(BRTX2HTML) -doc -title "Bracetax Example" -link-css ../$(CSS) \  
-i main.brtx.tmp -o $@  
rm main.brtx.tmp  
  
#  
# Generate the HTML page from source:  
#           m4           brtx -html           brtx -prospro  
# source bracetax + M4 ---> pure bracetax ---> HTML ---> HTML  
#  
main.tex: main.brtx  
m4 -D_todaydate="date" -D_output_format="LATEX" main.brtx > main.brtx.tmp  
brtx -doc -title "Self Documenting Example" -latex -i main.brtx.tmp -o main.tex  
rm main.brtx.tmp
```

```

#
# A PDF with pdflatex
#
main.pdf: main.tex
pdflatex main && pdflatex main
rm main.log main.aux main.out

#
# Using VIM to generate an HTML page from a source code
#
Makefile.html: Makefile
vim -f -R $< \
-c "sy on" \
-c 'colorscheme darkblue' \
-c T0html -c 'w! $@.tmp -c 'qa!' && \
sed -e 's/<title>.*</title>/<title>Makefile</title>/' \
$@.tmp > $@
rm -f $@.tmp

#
# Using VIM to generate an HTML page from a source code
# (with the provided - incomplete - vim plugin
#
main.brtx.html: main.brtx
vim -f -R $< \
-c "sy on" \
-c 'colorscheme darkblue' \
-c 'source ../../../../tools/bracetax_syntax.vim' \
-c T0html -c 'w! $@.tmp' -c 'qa!' && \
sed -e 's/<title>.*</title>/<title>Example - source</title>/' \
$@.tmp > $@
rm -f $@.tmp

```