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## correspondencia

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To: Kathi Townes <Kathi.Townes@techartscolo.com>

Hi Kathi, thanks for the coffee grinder, it's great! It got here ok. And the book.

I'm attaching a script called expandex.pl ("expand examples"), which puts in macros in each example. I checked it against the file that you gave me and it comes pretty close. **To run it you need to install the newest version of Tarp, 0.90**

Roughly how it works:

It reads tex files in the current directory.

It puts in dummy item tags after `\begin{Example}`, so that

```
\begin{Example}[1]
```

becomes

```
\begin{Example}[1]
TARP_ITEM-1
```

This way it can be read by latextract. If it finds anything else that's weird, it will tell you about it, and complain about a file that ends with `*_tmp.tex`. **Remember, you shouldn't edit the `_tmp.tex` file but the original `.tex` file.**

Once the `.tex` file is read okay, it gets the example section, then reads the `.csv` file and decides where the example macros will go, taking into account the video flag, and then goes in and puts the macros in.

Oh yeah, and in cases where the macro needs to be put in after a part tag but before the stuff that goes after that item tag, it does that automatically too. So if you give this list as an input (from example 11)

```
\begin{enumerate}
\item[ (a) ]  $f(x)=x^5+x\qquad$ 
\textbf{ (b) }  $g(x)=1-x^4\qquad$ 
\textbf{ (c) }  $h(x)=2x-x^2$ 
```

You will get this:

```
\begin{enumerate}
\item[ (a) ]
%TCIMACRO{%
%\hyperref{\fbox{\tiny EX 00015}}{\quad }}{\fbox{\tiny EX 00015}}{\quad
}}}%
%BeginExpansion
\msihyperref{\fbox{\tiny EX 00015}}{\quad }}{\fbox{\tiny EX 00015}}{\quad
}}}%

```

```
%EndExpansion  
$f(x)=x^{5}+x\quad $
```

So the thing that was after item (a) gets moved down a line and the macro gets inserted there.

Try it out and let me know how you get on.

I was getting REALLY stuck with this thing because the examples have `\begin{Example}` and then `\begin{enumerate}`. I thought, if we have three levels of item tags (exTag, partTag and subPartTag), then I could put in more levels of begin and end tags.

SO

I've renamed exTag, partTag and subPartTag as itemTag[1] thru [3]. See the .tas files.

And you can use one beginTag:

```
beginTag = \begin{enumerate}
```

or more than one:

```
beginTag[0] = \begin{Example}  
beginTag[1] = \begin{enumerate}
```

or however many you want.

kp

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**expandex.zip**

4K

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