

Using Wave to collaborate on L^AT_EX documents

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I found that Wave could be used as collaborative editor on L^AT_EX documents by using a modified export bot [Fru] and a simple shell script. The `exporty2` bot (living at `exporty2@appspot.com`) allows you to access a wave using access tokens instead of cookie based logins making it easier to fetch those waves using `curl`. Also the `exporty2` bot allows you to export only the text of a Wave using the “raw” template.

The raw URL given by the `exporty2` bot is pasted into the shell script below. It serves as master wave as it is the document that is L^AT_EXed. Additionally it also lists other resources using the special `%FETCHURL` tag. These resources are pairs of *local name* and URL. `Curl` fetches these resources and stores it under their local name before the shell script runs the usual combination of `latex/bibtex/latex`. I usually put those `%FETCHURL` tags below `\documentclass`.

```
#!/bin/sh
TITLE="wave-collaboration"

curl -o $TITLE.tex "http://exporty2.appspot.com/export?waveId=googlewave.com!\
w/%252B1RomqcgHA&accesstoken=c64e13d340009da7&template=raw"

DELIMITER="DELIMITER"
FETCHURL=$(grep %FETCHURL $TITLE.tex | sed -e "s/ /$DELIMITER/g")
for i in $FETCHURL
do
  URL=$(echo $i | awk -F$DELIMITER '{ print $3 }')
  FILENAME=$(echo $i | awk -F$DELIMITER '{ print $2 }')
  curl -z $FILENAME -o $FILENAME $URL
done
latex $TITLE.tex
bibtex $TITLE
latex $TITLE.tex
dvi2pdf $TITLE.dvi
```

The nice thing about the `exporty` bot is that it ignores any blips except the root blip. Thereby you could add replies to the latex document and have inline

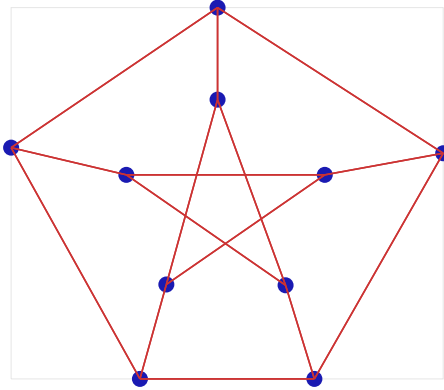


Figure 1: Example Graphics

discussions that are automatically filtered from the export. Also the exporty bot ignores the first line of the wave, so you can name the Wave properly.

Figure 1 demonstrates how to include graphics resources using the `%FETCHURL` tag. Of course this also works with bibliography files. As you can see at the top, I'm using another exported wave as the bibliography resource.

References

- [Fru] Clemens Fruhwirth. A modified exporty2 bot.
<http://blog.clemens.endorphin.org/2010/02/working-wave-export-bot.html>.