

# Upgrading to the new Emacs org-mode exporter

George Jones <gmj AT pobox DOT com>, and "eludom" most other places.

2013-05-10 Fri

## 1 What this is

This documents my process of upgrading to the new org-mode exporter.  
<http://orgmode.org/worg/exporters/ox-overview.html>

## 2 Setup

### 2.1 Some preliminary setup to make execution of these examples work

Add this stuff to your ~/.emacs.d/init.el or otherwise eval it.

See <http://orgmode.org/worg/org-contrib/babel/intro.html>.

```
(org-babel-do-load-languages
  'org-babel-load-languages '((sh . t) (lisp . t) ))
(setq org-export-babel-evaluate nil)
(setq org-confirm-babel-evaluate nil)
(setq org-babel-sh-command "bash")
```

### 2.2 Emacs Version

```
(emacs-version)
```

GNU Emacs 24.3.50.1 (x86\_64-pc-linux-gnu, GTK+ Version 3.4.2)  
of 2013-04-21 on wani09, modified by Debian

### 2.3 Initial Org Version

```
(org-version)
```

7.9.3f

### 3 Installation

- See <http://orgmode.org/manual/Installation.html>

#### 3.1 DONE Initial pull of latest org-mode

```
set -x -u
date
cd ~
mkdir -p ~/src
cd ~/src
set +x # errors OK
git clone git://orgmode.org/org-mode.git 2>&1
set -x
ls -r -d -1 $PWD/{*,.*}
```

#### 3.2 DONE Pull latest updates to org-mode

```
set -x -u
date
cd ~/src/org-mode
set +x # errors OK
git pull 2>&1
set -x
ls -r -d -1 $PWD/{*,.*}
```

#### 3.3 DONE Make Autoloads

```
set -x -u
date
cd ~/src/org-mode
make autoloads 2>&1
```

#### 3.4 DONE Make sure we are using the correct version

Add this to your emacs setup (`~/ .emacs` or `~/ emacs.d/init.el`)

```
(add-to-list 'load-path "~/src/org-mode/lisp/")
(add-to-list 'load-path "~/src/org-mode/contrib/lisp/" t)
```

## 4 DONE Run a few tests

### 4.1 Do we have the new Org Version?

```
(org-version)
```

```
8.0.2
```

### 4.2 DONE Export to ASCII

Export current buffer to ASCII and open in other window

```
CTRL-C CTRL-E t A
```

### 4.3 DONE Export to HTML

Export current buffer to HTML and open in browser.

```
CTRL-C CTRL-E h o
```

## 5 DONE Export to pdf via L<sup>A</sup>T<sub>E</sub>X

Now we get a little crazy. Export to pdf via L<sup>A</sup>T<sub>E</sub>X.

### 5.1 DONE Install necessary packages

First, we'll have to install some stuff. I'm testing this on a an Ubuntu Linux system (12.04 Security Onion distro), so your mileage may vary if your on some other platform (Mac, Red-Hat, etc)

```
set -x -u
date

#
# Pay no attention to the man behind the curtain.
#
# this goo is needed to prompt for a sudo password
# while executing a sudo(1) command in bash under org-babel.
echo -e "#! /bin/bash\n/usr/bin/gksudo -p -m Password" > /tmp/gksudo-stdout
chmod +x /tmp/gksudo-stdout
SUDO_ASKPASS="/tmp/gksudo-stdout" sudo -A -s
#
```

```
# Thanks to Sylvain Rousseau: http://comments.gmane.org/gmane.emacs.orgmode/52979
#
# As you were. That's over. Now just do what you need to with sudo.
#
```

```
sudo id # just to make sure
```

```
sudo apt-get -y install texlive 2>&1
sudo apt-get -y install texlive-latex-extra 2>&1
sudo apt-get -y install texlive-bibtex-extra 2>&1
sudo apt-get -y install bibtex2html 2>&1
sudo apt-get -y install texlive-plain-extra 2>&1
sudo apt-get -y install xpdf 2>&1
```

## 6 DONE Export this document to pdf

### 6.1 DONE Export to PDF

Export current buffer to PDF and open

```
CTRL-C CTRL-E 1 o
```

### 6.2 If at first you don't succeed

Check the **\*Messages\*** buffer for errors. You might have to run pdf<sub>l</sub>atex on the resulting tex file by hand to diagnose errors. Most likely problems are missing fonts or styles requiring more packages.

### 6.3 open the pdf file

```
CTRL-C CTRL-E 1 o
```

should have opened the pdf file, but maybe I have something configured wrong, so we open in emacs directly with

```
CTRL-X CTRL-F
```

## 7 Open Issues

### 7.1 Things not quite working in the new exporter

#### 7.1.1 TODO Get citations and bibliography working in HTML and L<sup>A</sup>T<sub>E</sub>X

- Old exporter had org-exp-bibtex in contrib
- New exporter will have ox-bibtex.el
  - port by Nicolas Goaziou
  - I've done some testing. L<sup>A</sup>T<sub>E</sub>X works. HTML has a few issues.

### 7.2 Thing I might not understand in the new exporter

#### 7.2.1 TODO Understand what happened to #+TEXT in the new exporter?

How do you specify text that is to be before the first section?

#### 7.2.2 TODO Understand the template categories for export ?

I want to insert a default set of headers, I typed

CTRL-C CTRL-E #

and it asks me for a "Options Category?" What's that? "?" does not list options.

#### 7.2.3 TODO Understand why PDF file links not opening the file

## 8 Feedback

### 8.1 Send me suggestions

If you send me suggestions, I may incorporate them in future versions.

### 8.2 Hack the source directly on github

Alternately, you can hack the .org source directly. The source to this document is available on github under <https://github.com/eludom/HOWTO>