

Set up ltx-talk to work with newest Org-mode main

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Pull in newest main branch of Org-mode

The ltx-talk export functionality is only available from the latest main branch as of this writing. You can obtain a read-only copy via git:

```
mkdir -p ~/Devel  
cd ~/Devel  
git clone https://git.savannah.nongnu.org/git/org-mode.git  
cd org-mode  
make clean compile
```

Note: You will need GNU make to compile Org-mode.

Changes to the init file

Add load path to Org-mode repository

To use the ltx-talk export functionality, add the newest Org-mode repo to your load path. If you use the ~/Devel path from above, add this to init.el:

```
(add-to-list 'load-path "~/Devel/org-mode/lisp/")
```

Set the L^AT_EX compiler

On top of other modifications in your init.el file, you want to set the L^AT_EX compiler to use LuaL^AT_EX:

```
(setq org-latex-compiler "lualatex")
```

Note: You can also set it in the document header, in case you use another L^AT_EX compiler by default (see below).

Basic Org-mode document setup

Set the class and basic options

```
#+STARTUP: beamer
#+OPTIONS: toc:nil title:t H:2
#+LATEX_CLASS: ltx-talk
```

Note: if you do not have Lua $\text{\LaTeX}$ defined as your compiler in `init.el`, add
`#+LATEX_COMPILER: lua $\text{\LaTeX}$` to your Org-mode file.

Set up tagging meta data

```
#+LATEX_DOC_METADATA: lang=en,
#+LATEX_DOC_METADATA: pdfstandard=ua-2,
#+LATEX_DOC_METADATA: pdfstandard=a-4f,
#+LATEX_DOC_METADATA: pdfversion=2.0,
#+LATEX_DOC_METADATA: tagging=on
```

Additional tagging settings

Proper labelling of tables

We can define the first row of tables to be take as the header rows like so:

```
#+LATEX_CLASS_PRE: \tagpdfsetup{table/header-rows={1},  
#+LATEX_CLASS_PRE:           role/new-tag=frametitle/H2}
```

I don't think the frametitle setup above works fully yet; we might have to check in with the maintainer of ltx-talk.

Proper labelling of math

```
#+LATEX_CLASS_PRE: \tagpdfsetup{math/alt/use}
```

Other options I have seen suggested are `\tagpdfsetup{math/setup=mathml-SE}` and `\tagpdfsetup{math/mathml/structelem}`, but the one above was the only one that gave me a compliant document in Canvas.

Compliance tests

Canvas LMS accessibility

The Canvas accessibility checker does not recognize:

1. the title of the document
2. the language of the document
3. the frame (slide) headings

The first two items are easily fixed in Canvas, the latter might need discussions with the maintainer of ltx-talk.

Call for action

1. Please give us feedback.
2. What is your screen-reader? How does it behave with this presentation?
3. Each system setup counts.