

# Writing Beamer presentations in org-mode

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# Outline

- 1 Introduction
- 2 Methodology
- 3 Conclusions

# Preface

This is an updated file based on this tutorial from Eric S Fraga in an attempt to clarify org-mode Beamer export in 2022 for this StackExchange question.

Key changes:

- had to change H:3 to H:2 in the `#+options` line
- added in the Madrid template
- deleted options lines that didn't seem relevant
- regenerated a screenshot so the image insertion would work
- made a `min-config` for reproducibility; one should `emacs -Q`, then `M-x load-file [RET] path/to/min-config` and then try exporting

# Overview

This presentation provides an illustration of some of the capabilities of the **Beamer** export in `org` mode:

- 1 simple slides (this one),
- 2 slides with special blocks,
- 3 multi-column slides and
- 4 the use of **Babel** for literate programming.

This file should be exported using `M-x org-export-dispatch` (`C-c C-e`), specifying 1 for  $\text{\LaTeX}$  and then P, for instance, to generate the PDF.

# A simple slide

This slide consists of some text with a number of bullet points:

- the first, very **important**, point!
- the previous point shows the use of the special markup which translates to the Beamer specific *alert* command for highlighting text.
- note: the original worg presentation features @foo@ notation for the very @important@ point above, which is supposed to convert the text to `\alert{foo}`, but isn't happening. I can't find information easily on why and just replaced it with bold text.

The above list could be numbered or any other type of list and may include sub-lists.

# A more complex slide

This slide illustrates the use of Beamer blocks. The following text, with its own headline, is displayed in a block:

## Theorem (Org mode increases productivity)

- *org mode means not having to remember  $\LaTeX$  commands.*
- *it is based on ascii text which is inherently portable.*
- *Emacs!*



# Two columns

- this slide consists of two columns
- the first (left) column has no heading and consists of text
- the second (right) column has an image and is enclosed in an **example** block

## Example (A screenshot)

### A simple slide

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The above list could be numbered or any other type of list and may include sub-lists.

## Octave code

```
A = [1 2 ; 3 4]
b = [1; 1];
x = A\b
```

## The output

A =

1	2
3	4

x =

-1
1



# Summary

- org is an incredible tool for time management
- **but** it is also excellent for writing and for preparing presentations
- Beamer is a very powerful  $\text{\LaTeX}$  package for presentations
- the combination is unbeatable!