

(Unofficial) RPI Beamer Presentation Template

And an optional subtitle

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Introduction

A subtitle

What is this?

A template for beamer presentations. I made this template following RPI's official powerpoint template and logos [1].

Why did I do this?

I couldn't find an existing one and I didn't want to copy over citations manually.

Before We Start

- This project uses the fontspec package, which is not supported by the default compiler backend on Overleaf.
- You can change this by following the two steps:

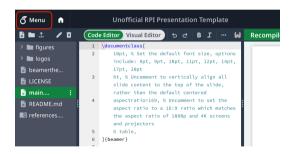


Figure: Open the menu tab



Figure: Set compiler to XeLaTex



Style Notes

- Use of minipage is encouraged.
 - Why? because I designed the template with it in mind. The columns env probably works for the most part as well, but it might not.
- I tried to use relative values for margins and header/sizes where I could. It should scale well with different page sizes.
- Just use ref for references. it's pretty annoying to get cleveref to work with beamer [2], and it doesn't look like there will be a nice way any time soon <empty citation>

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Table of Contents

- You already saw the table of contents.
- minipage or columns [3]
- To make use of this, you need to use sections, which should be placed outside of the frame [4].
- Use AtBeginSection to automatically show the table of contents at the beginning of each section.

By default, it is in one column. If you want to divide it to multiple columns, you can use

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Using lists

Simple example of using lists.

- Item 1.
- Item 2.
- 1. Enumerate 1
- 2. Enumerate 2

I think this looks pretty similar to how the powerpoint one looks.

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Using figures

Here is an example of a figure.

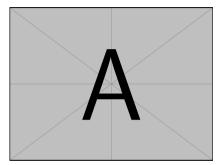


Figure: A subfigure

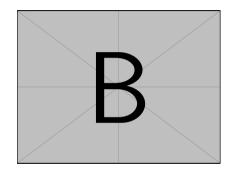


Figure: Another subfigure

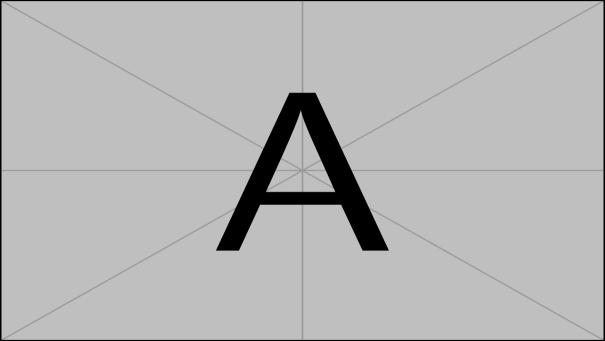
Figure: Example of a figure side by side.

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Using a full screen image

Next slide shows how to use an image in full screen. I got this from here



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A Table

Col 1	Col 2	Col 3
а	b	С
d	е	f

Table: An example table

Findings

- This is indeed a table.
- Use minipage to put two things side by side, just like the images.
- You can also use columns, but it's not necessary [5].

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Textboxes

First Block

- First item of first block.
- Second item of first block.
- Notice that the next block matches the height of this one.
- I am also changing the indentation of bullets so it looks better in the boxes.

Second Block

- First item of second block.
 - first sub item of second block.

Third Block

This one doesn't have a list and doesn't match the height!

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Equations

$$\mathcal{L}_{CE} = \sum_{c=1}^{C} \log \frac{\exp(x_{n,c})}{\sum_{i=1}^{C} \exp(x_{n,i})}$$
 (1)

- Equation 1 shows the cross-entropy loss.
- lacksquare You can also use inline equations like this: $x_{n,c}$.



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Definitions

Definition

This is a definition.

- It can be used to define something.
- It can also be used to define something else.
- If you don't like the colors, you can change block title and block body of setbeamercolor in the .sty file.

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Using Bibtex

- It should be the same as using your regular bibtex.
- To showcase, let's cite some resources [6]–[8] that helped me put this together.
- You can add [allowframebreaks] to the frame to automatically continue the reference list in the text page if you have too many.
- You can use \tcite (short for textcite) shorthand to use it in text mode, i.e. Anglim [6].
- You can use \fcite (short for footcite) to add a citation with a footnote on the bottom of the slide.
 - Note that if you are using \columns or \minipage, the footnote will by default appear in the bottom of the environment, not the slide.
 - You can manually escape this by using just \cite or \tcite in text and adding a \bfcite (blank footcite) outside of these environments
 - e.g. \bfcite{fiandrinoAnswerDesignCustom2013}.



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Footer Title Option/Override

- The default behavior is to use the shorttitle (the stuff defined in [] after \title)
- You can change this by specifying an option when importing the template (like \usetheme[<0PTION_HERE>]{rpi}). Valid options are:
 - footertitlemode=onlysection
 - footertitlemode=sectionandsubsection
 - footertitlemode=onlysubsection
- OR you can override it by using \overridefootertitle{<YOUR_TITLE_HERE>}. This will override the title for the rest of the presentation, until you call \clearoverridefootertitle.



Another slide with custom footer title



Placeholder slide to show resetting the footer title



References I

- [1] RPI, "Home | Strategic Communications and External Relations," (), [Online]. Available: https://scer.rpi.edu/.
- [2] A.-M. Aldaoudeyeh, "Hyperlinks do not work with cleveref + beamer," (2019), [Online]. Available: https://tex.stackexchange.com/q/481022.
- [3] samcarter_is_at_topanswers.xyz, "Answer to "Beamer: Vertical alignment of multi-column ToC"," (Oct. 2013), [Online]. Available: https://tex.stackexchange.com/a/136082.
- [4] campa, "Answer to "Atbeginsection returns missing number treated as zero"," (Sep. 2022), [Online]. Available: https://tex.stackexchange.com/a/657724.
- [5] M. Scharrer, "Answer to "Minipage, columns, tabular: Differences in applicability?"" (Nov. 2011), [Online]. Available: https://tex.stackexchange.com/a/34037.
- [6] J. Anglim, "Answer to "Image on full slide in beamer package"," (Oct. 2010), [Online]. Available: https://tex.stackexchange.com/a/3927.



References II

- [7] C. Fiandrino, "Answer to "Design a custom Beamer theme from scratch"," (Nov. 2013), [Online]. Available: https://tex.stackexchange.com/a/146682.
- J. Kormylo, "Answer to "Make tikz nodes flush with slide edges in beamer title slide"," (Oct. [8] 2017), [Online]. Available: https://tex.stackexchange.com/a/395544.