

L^AT_EX Template
James Cook University Cairns

Hunter Kruger-Ilingworth (14198489)

June 24, 2024

Contents

1	Intro	2
2	Feature Demonstration	2
2.1	Images	2
2.2	Math	2
2.3	Tables	2
2.4	Code	2
3	Discussion	2
4	Conclusion	3

List of Figures

1	Example Image	2
2	Example Big Image (Made using MATLAB)	3

List of Tables

1	A small table	2
---	-------------------------	---

Intro

This is my cool document. I have a lot of cool things to say. **note to self: Improve this introduction**

Feature Demonstration

Images

I made a couple of latex commands that make inserting images a bit shorter. I made a command called `\insertimage {}{}{}`, which takes three arguments: the image filename, the caption, and the label. I also made a command called `\insertbigimage {}{}{}`, which does the same thing, but for big images that are too wide to be placed in a single column. Figures 1 and 2 are the result of using these commands (Though the big image is too big to fit on this page).

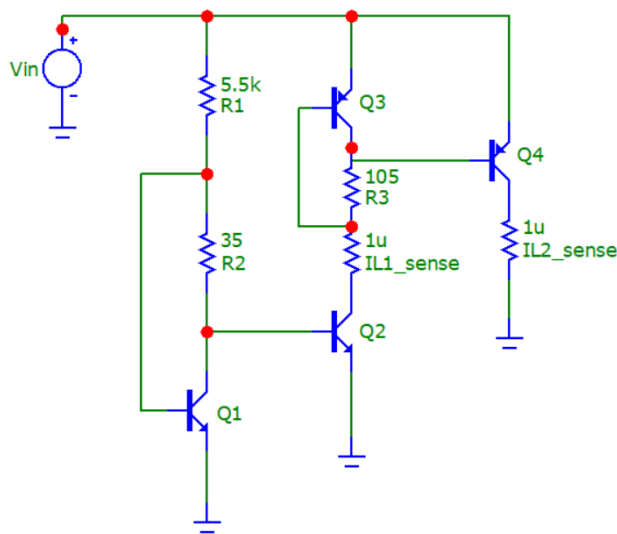


Fig. 1. Example Image

Math

This isn't really a feature of my template, but more a feature of L^AT_EX itself. Here is some Math:

$$C = A \times B = \begin{bmatrix} c_{11} & c_{12} & c_{13} \\ c_{21} & c_{22} & c_{23} \\ c_{31} & c_{32} & c_{33} \end{bmatrix} \quad (1)$$

Here is some more ChatGPT gave me:

$$\hat{f}(\xi) = \int_{-\infty}^{\infty} f(x) e^{-2\pi i x \xi} dx \quad (2)$$

I made a couple of commands that make writing math a bit easier. For example, I made a command called `\E {}`, which takes one argument, the exponent. For example, `\E {3}` will display as $\cdot 10^3$. I also made a command called `\abs {}`, which takes one argument, the value to be enclosed in absolute value bars. For example, `\abs {-3}` will display as $|-3|$ ¹

Tables

I don't have any custom commands to make tables, but I can still make them My recommendation is to use ChatGPT to generate the table for you.

Column 1	Column 2
Data 1	Data 2
More Data 1	More Data 2
Even More Data 1	Even More Data 2
Dummy Data 1	Dummy Data 2
Another Data 1	Another Data 2

Table 1: A small table

I also have configured a way for latex to read `.xlsx` and `.csv` files

Code

I also made a command for inline code, `\code {}`. This command takes one argument, the code to be displayed. For example, `\code {print("Hello World")}` will display as `print("Hello World")`. Groundbreaking, I know

Discussion

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus

¹Only works in a math environment, either in an align/equation environment or between \$ \$ symbols. By the way footnotes are also a thing in L^AT_EX.

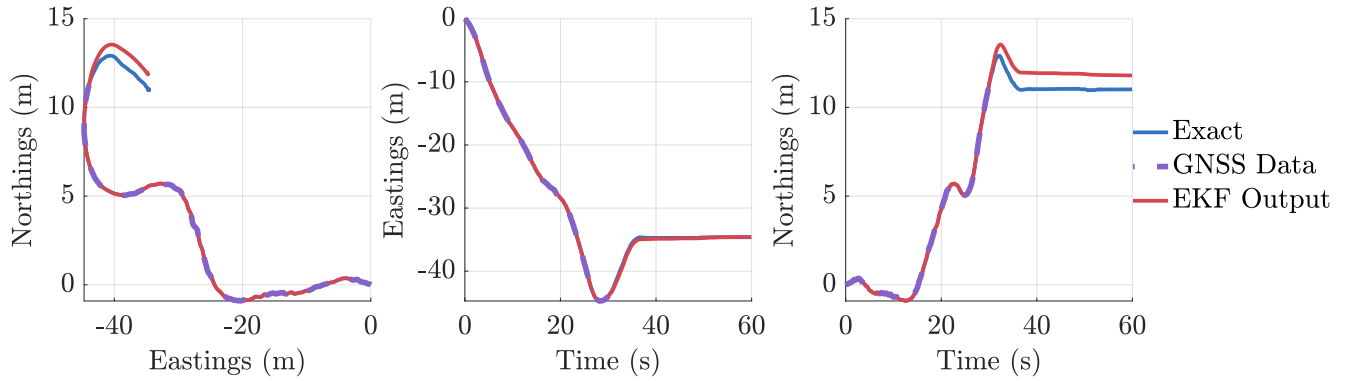


Fig. 2. Example Big Image (Made using MATLAB)

eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Conclusion

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.