The framed beamer template

And another one...

Dennis Ogbe Purdue University, West Lafayette, Indiana, USA



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Overview



► Part 1: *Examples*

► Part 2: Plots



Part 1: Examples
Part 2: Plots

Hello!

About the template



This is another try at a more subtle beamer template.

An itemized list looks as follows:

- ► Item 1
- ► Item 2

The continuous-time Fourier Transform of a signal x(t) is defined as

$$X(\omega) = \int_{-\infty}^{\infty} x(t)e^{-j\omega t} dt$$

(1)

A Theorem in a Box



Theorem

The Bessel functions of the first kind $J_v(x)$ are the solutions to the Bessel differential equation

$$x^{2} \frac{d^{2} y}{dx^{2}} + x \frac{dy}{dx} + (x^{2} - v^{2}) y = 0.$$
 (2)

The proof is omitted.¹

I am sure Shannon did not use this fact²

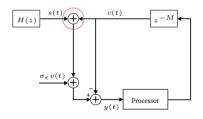
¹This is a footnote explaining why the proof was omitted.

²C. E. Shannon, "A mathematical theory of communication," The Bell System Technical Journal, vol. 27, no. 3, pp. 379–423, Jul. 1948, ISSN: 0005-8580. DOI: 10.1002/i.1538-7305.1948.tb01338.x.

Figures and columns



We can include graphics just like we are used to, for example this block diagram of a noise-canceling system:



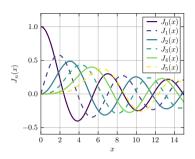
Columns work great in a 16:9 aspect ratio

- ► Add more text
- ► Even more information

This is a Block in a Column

We can also add varblocks to bring the point even more across!





Part 1: Examples
Part 2: Plots

Plotting is fun!



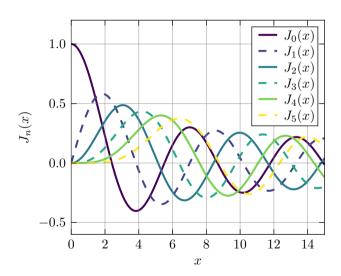
On the following pages, we include two examples on how to include plots:

- 1. A PDF plot
- 2. A PGF/TikZ plot

PDF plots are nice, but nothing beats the native look of PGF/TikZ. The source code to generate both plots can be found in extra/plot_bessel.py

A Plot





References I



[1] C. E. Shannon, "A mathematical theory of communication," The Bell System Technical Journal, vol. 27, no. 3, pp. 379–423, Jul. 1948, ISSN: 0005-8580. DOI: 10.1002/j.1538-7305.1948.tb01338.x.