

# A Nice Title

Me, Myself, and I

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# WELCOME

*This is a quote from someone*

— Author, *Optional Source*

**H**ELLO THERE, and welcome to A Topic. This is literally just an example with random content that demonstrates how the template will look when used in book form.

## 1.1 On Colorful Boxes

There are lots of different boxes you can make:

- Like this one,

which is wrapped in gray. I use it for notes...

- Or this one,

which is wrapped in red. I use it for fun facts or other asides...

- Or this one,

which is wrapped in blue and used for mathy stuff.

- Or this last one,

which is wrapped in green. With a title, it's used for enumerated examples (see `\extitle` and `\excounter`). Observe:

**EXAMPLE 1.1: Test**

This is an example. What's the answer to  $2 + 2$ ?

ANSWER: Obviously 4, lol.

**EXAMPLE 1.2: Test Again**

This one will increment the counter automatically, resetting for each chapter.

- For red and blue boxes, there are custom commands for titles, too:

**ONE TITLE**

Like this

**TWO TITLES: A Subtitle**

Or this

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These styles also automatically apply to theorems and claims.

**Theorem 1.1** (Pythagorean Theorem). *For any right triangle with legs  $a, b$  and hypotenuse  $c$ :*

$$a^2 + b^2 = c^2 \tag{1.1}$$

*Proof.* This is left as an exercise to the reader. ■

**Claim 1.1.** *This is the greatest note template in the world.*

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There are different ways to quote things, too, depending on how you want to emphasize:

*This is a simple, indented quote with small letters and italics usually suitable for in-text quotations when you just want a block.*

Alternatively, you can use the `\inspiration` command from the chapter heading, which leverages the `thickleftborder` frame internally, but adds a little more padding and styling (there’s also just `leftborder` for a thinner variant):

**■** Hello there!

## 1.2 On Cross-Referencing

You can reference most things—see [Theorem 1.1](#) or [\(1.1\)](#) or the [Welcome](#) chapter—directly and easily as long as you give them labels. These are “built-ins.” However, you can also create a **custom term** that will be included in the index, then include references to it that link back to the original definition. Try clicking: [custom term](#). Building the index is on you, though. You can also reference by using a different term for the text: [like this](#). Sometimes it doesn’t fit the **grammatical structure** of the sentence so you can define the term one way and visualize it another way (this creates a **grammar** entry in the index). There’s also **math terms** and a way to reference them: [math terms](#) (clickable), but they do **not** show up in the index.

## 1.3 On Math

Most of the math stuff is just macros for specific things like the convolution operator,  $\otimes$ , probabilities,  $\Pr[A|B = C]$ , or big- $O$  notation,  $\mathcal{O}(n^2 \log n)$  but there’s also a convenient way to include explanations on the side of an equation:

$$\begin{array}{rcl} 1 + 1 & \stackrel{?}{=} & 2 & \text{first we do this} \\ 2 & \stackrel{?}{=} & 2 & \text{then we do this} \\ 2 & = & 2 & \blacksquare \end{array}$$

These are all in the `CustomCommands.sty` file.