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# Overview

## 1.1 Sample

### Definition 1.1.1 ▶ amznotes

**amznotes** is a  $\LaTeX$  package that makes it easy to write pretty notes.

### Theorem 1.1.1 ▶ Cool Theorem

This  $\LaTeX$  template is cool.

*Proof.* Here is what some math looks like:

$$\forall (n \in \mathbb{N}) \left[ \sum_{i=1}^n i = \frac{n(n+1)}{2} \right]$$

$$\mathcal{L}\{f\}(s) = \int_0^{\infty} e^{-st} f(t) dt$$

Some more math:

$$\lfloor x \rfloor = \max\{n \in \mathbb{Z} : n \leq x\}$$

$$\lceil x \rceil = \min\{n \in \mathbb{Z} : n \geq x\}$$

The math is good. □

As seen in Cool Theorem (Theorem 1.1.1), this template is pretty cool.

## 1.2 Installation

To install this package, download the `amznotes.sty` file and follow this guide<sup>1</sup>. Alternatively, you can simply add the `amznotes.sty` file to the same directory as the `.tex` file you want to use it with.

<sup>1</sup><https://tex.stackexchange.com/questions/1137/where-do-i-place-my-own-sty-or-cls-files-to-make-them-available-to-all-my-te>

## 1.3 Usage

Once installed, you can include `amznotes.sty` using the command `\usepackage{amzmath}`.

### Code Snippet 1.3.1 ► Using `amznotes`

```
1 \documentclass[12pt]{report}
2 \usepackage[math, code]{amznotes}
```

The `math` option enables `thmbox` and various math macros. The `code` option enables `codebox` and `code` environments.

Using the boxes is pretty straight-forward. They're based on the `tcbtheorem` from `tcolorbox`. We can see how to use one below:

### Code Snippet 1.3.2 ► Using boxes

```
1 \begin{exbox}{Cool Example}{coolexample}
2   This is my example!
3 \end{exbox}
4 \nameref{ex:coolexample} (example \ref{ex:coolexample}) is pretty cool.
```

This is what Code Snippet 1.3.2 produces:

#### Example 1.3.1 ► Cool Example

This is my example!

Cool Example (example 1.3.1) is pretty cool.

List of possible boxes:

- `dfnbox` – definition box
- `exbox` – example box
- `tecbox` – technique box
- `thmbox` – theorem box (with package option `math`)
- `codebox` – code box (with package option `code`)

# Really really long chapter title that has to use more than one line because it is so long

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