

# aten.sty

atentwo

December 12, 2025

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## §1 Introduction

aten.sty provides a simple and lightweight solution to make your LaTeX documents prettier.

### 1.1 How to Use

Prepend the following to your tex file:

```
\documentclass{article}
\usepackage{aten}

\newcommand{\documenttitle}{DOCUMENT TITLE}
\newcommand{\authorname}{AUTHOR NAME}

\begin{document}

\title{\documenttitle}
\rhead{\textbf{\small \documenttitle}}
\lhead{\textbf{\small \authorname}}
\author{\authorname}
\maketitle

\tableofcontents
\newpage

% Content goes here
% \input{yourfile.tex} \newpage
% ...

\end{document}
```

### 1.2 Environments

These are what the environments look like. There's also Lemma, Corollary, and Observation.

**Definition 1.1** (Simple Definition). This is the simpledef environment.

**Theorem 1.2** (Simple Theorem). This is the simplethm environment.

#### Definition 1.3

This is the definition environment.

#### Theorem 1.4 (A Theorem)

For odd, positive integers  $k$ ,  $1 + 4^k$  is divisible by 5.

*Proof.* We prove that  $1 + 4^k \equiv 0 \pmod{5}$  for all odd, positive integers  $k$ . Note that  $4 \equiv -1 \pmod{5}$

$$4^k \equiv (-1)^k \pmod{5}.$$

For odd  $k$ ,  $(-1)^k = -1$ , so:

$$4^k \equiv -1 \pmod{5} \Rightarrow 1 + 4^k \equiv 1 + (-1) = 0 \pmod{5}.$$

Hence,  $1 + 4^k$  is divisible by 5 for all odd  $k \in \mathbb{Z}^+$ . □

**Remark 1.5**

This is a remark.

**Example 1.6 (An Example)**

This is an example.

This example has more than one line.

### 1.3 More Features

Links are supported. [Theorem 1.4](#) can either be proven through induction on the odd positive integers, or through a modular arithmetic argument.

## §2 Conclusion

Last updated December 12, 2025.