

aten.sty

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## Contents

<b>Contents</b>	<b>1</b>
<b>1 Introduction</b>	<b>2</b>
1.1 How to Use . . . . .	2
1.2 Environments . . . . .	2
1.3 More Features . . . . .	3
<b>2 Conclusion</b>	<b>3</b>

# 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

\end{document}
```

## 1.2 Environments

These are what the environments look like.

### Definition 1.1

This is a definition.

### Theorem 1.2

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 1.3

This is a remark.

**Example 1.4**

This is an example.  
This example has more than one line.

**1.3 More Features**

Links are supported. [1.2](#) can either be proven through induction on the odd positive integers, or through a modular arithmetic argument.

**2 Conclusion**

Last updated 2025-05-22.