Benjamin M^cKay

The Willow Tree Book Class 1.01



Preface

The Willow Tree Book class is a simplified derivative of the memoir book class. I use it for my lecture notes. The document you are reading is in the Willow Tree Book class.

Contents

Pre	face	V		
1	Use	1		
2	Definiti	ons,	Problems and Theorems	3
3	Citation	าร	5	
Hin	its 7			
Bib	liograph	y	9	
List	of nota	tion	11	

Chapter 1

Use

Here is a typical book using the Willow Tree Book class:

```
\documentclass{willowtreebook}
\Title{Odyssey}
\Author{Homer}
\BibliographyFile{odyssey}
       % The name of the .bib file, without file extension.
\begin{document}
\chapter{Preface}
This is the preface to my book.
\afterpreface
\chapter{We meet Odysseus}
Tell me, O muse, of that ingenious hero \dots
Thus spoke Minerva, and Ulysses obeyed her gladly. Then Minerva assumed
the form and voice of Mentor, and presently made a covenant of peace
between the two contending parties.
\par\bigskip\noindent
THE END
       % End the document without loading the bibliography
       % or the index, or the list of notation.
\end{document}
```

Compile with latex or pdflatex.

Chapter 2

Definitions, Problems and Theorems

Definitions

We can define a term like hamster, or say that the term hamster appears again later.

Problems

2.1 What is the point of your life?

In problem 2.1, we can clearly see ...

Chapter 3

Citations

Our bibliography file looks like

```
@book {Homer:Iliad,
   AUTHOR = {Homer},
   TITLE = {The {I}liad},
   EDITION = {Third},
   NOTE = {An epic poem in dactylic hexameter, translated from the Greek by A. Guy},
   PUBLISHER = {McHaw-Grill Book Co., New Cork},
        YEAR = {1978},
        PAGES = {xi+331},
        ISBN = {0-07-000657-1},
}
```

We can cite works from the bibliography, like Homer [1], p. 12.

We can cite works from the bibliography, like Homer~\cite{Homer:Iliad}, p. 12.

Compile with bibtex.

Theorems

You have the usual theorem environments, like amsthm.

Theorem 3.1 (Pythagoras). In any triangle with sides of lengths $a, b, c, a^2 + b^2 = c^2$ just when the angle opposite the side of length c is a right angle.

```
\begin{theorem}[Pythagoras]
In any triangle with sides of lengths \(a,b,c\),
\(a^2+b^2=c^2\) just when the angle opposite the
side of length \(c\) is a right angle.
\end{theorem}
```

I often want to present an example, and make clear where it starts and stops.

The integral $\int e^{x^2} x \, dx$

6 Citations

is evaluated by substituting $u=x^2$, so

$$\int e^{x^2} x \, dx = \int e^u \frac{du}{2}.$$

```
The integral \[
\int e^{x^2}x\,dx
\]
is evaluated by substituting \(u=x^2\), so \[
\int e^{x^2}x\,dx=\int e^u \frac{du}{2}.
```

Hints

2.1. Your life is pointless.

Bibliography

[1] Homer, *The Iliad*, third ed., McHaw-Grill Book Co., New Cork, 1978, An epic poem in dactylic hexameter, translated from the Greek by A. Guy. 5

List of notation

 ω A variable called ω , 3