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The Willow Tree Book Class v1.0

April 22, 2020

T. 5. N° 27.



SALIX Babylonica.

P. J. Redouté pinx.

SAULE pleureur. pag 113

Gabriel sculpt.

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.

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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. We add notation like when we use a variable called ω , we put it in the list of notation.

```
\chapter{Definitions, Problems and Theorems}
\section{Definitions}
We can define a term like \emph{hamster}\define{hamster},
or say that the term hamster appears again later\SubIndex{hamster}.
```

Compile, for a book called filename.tex, with

```
| makeindex filename
```

We add notation like when we use a variable called ω , we put it in the list of notation.. If you use notation, compile with

```
| makeindex -s notation.gst -o not.gls not.glo
```

Problems

2.1 What is the point of your life?

In problem 2.1, we can clearly see ...

```
% We add problems by:
\begin{problem}{label.for.the.first.problem}
What is the point of your life?
\end{problem}

% and answers by:
\begin{answer}{label.for.the.first.problem}
Your life is pointless.
\end{answer}
In problem~\ref{problem:label.for.the.first.problem}, 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}
```


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. MR 510197 5

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