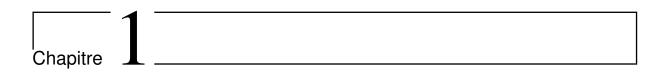
${\it L'extension FncyChap} \\ {\it V1.34}$

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Table des matières

1	Description de l'extension 1.1 Chargement et utilisation classique	2
2	Nouvelles commandes 2.1 Toward customization of the chapter head	3
3	An overview of the chapter styles	5
	3.1 The chapter Sonny	5
	3.2 The chapter Lenny	6
	3.3 The chapter Glenn	
	3.4 The chapter Conny	7
	3.5 The chapter Rejne	7
	3.6 The chapter Bjarne	
	3.7 The chapter Bjornstrup	8
4	A simple example	9
5	Revision details	11



Description de l'extension

L'EXTENSION fncychap a été écrite afin que des titres de niveau chapitre puissent être altérés rapidement et que je puisse apprendre plus sur LATEX et TEX. Je ne sais pas si cette extension est écrite de façon adéquate. Aussi, si quelqu'un lit cette documentation et essaye fncychap, je serais reconnaissant pour tout retour d'expérience. Ceci m'aidera à monter compétence dans l'écriture de commandes.

Dans toute publication, il est essentiel de se rappeler que la cohérence joue un rôle important. Ainsi, avec cette extension, il est possible de modifier l'apparence de chaque chapitre séparément dans un document. Ceci n'est cependant pas souhaitable : n'oubliez ici pas la modestie et la cohérence.

1.1 Chargement et utilisation classique

Cette extension est chargée en saisissant la ligne suivante en préambule

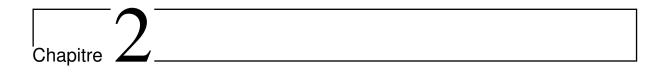
 $\uberrule usepackage[style]{fncychap}$

Si l'option style est omise alors la définition par défaut des chapitres est utilisée. À l'origine, il existait six styles de chapitres prédéfinis, à savoir Sonny, Lenny, Glenn, Conny, Rejne et Bjarne. Ces noms correspondent à des prénoms suédois, à l'image sans doute d'IKEA ¹. Chacun de ces styles dispose d'une configuration par défaut et, si elle est suffisante, il ne reste rien d'autre à faire.

Dans la version actuelle de *fncychap*, deux styles additionnels ont été ajoutés. Le premier se nomme *PetersLenny*, d'après le nom de son auteur Peter Osborn. Ce style se base sur celui de *Lenny*: Peter a finement ajusté la taille des filets pour chacun des chapitres numérotés (jusqu'à 20) et chacune des annexes (jusqu'à Z). Le second style a été défini par Jean-Marc François et il l'a nommé *Bjornstrup*.

À l'origine, fncychap ne dépendait d'aucune autre extension. Cependant, pour le style Lenny, une fonte postscript est utilisée par défaut; mais ceci peut être facilement changé. J'encourage l'utilisation de cette fonte postscript par défaut car elle est redimensionnable de façon très importante, ce qui rend Lenny très agréable. Dans la version actuelle, si le style Bjornstrup de Jean-Marc est utilisé, l'extension color de la distribution de base sera chargée.

^{1.} Marque déposée d'Ingvar Kamprad Emtaryd Agunnaryd.



Nouvelles commandes

En parallèle des styles de chapitre, quelques commandes additionnelles sont mises à disposition afin de créer ses titres de chapitre personnalisés. The commands will in the sequel be described. Each command is boxed and placed on a separate line. Lets begin the descriptions of the commands.

$\mbox{\em mghrulefill}\{\mbox{\it width}\}$

The above command is a more general version of the command \hrulefill in the sense that the width of the ruler can be specified. This command is provided in order to decorate the chapter headers. The chapter heading are divided into two parts. The first part defines the so called \chapapp and \thechapter which holds information of the text "Chapter" and the current chapter number respectively. The second part is the chapter title provided by the user. From now one, the \chapapp and \thechapter will be referred to as chapter name and chapter number respectively. The user defined title is referred to as the chapter title.

2.1 Toward customization of the chapter head

The chapter name, number and title can be changed easy, first lets introduce the following two commands

\ChNameUpperCase

and

\ChNameLowerCase

these commands will change the chapter name into either upper or lower case. One additional case command is provided for the chapter name, namely

\ChNameAsIs

which result in the default case. Three similar commands for the chapter title are defined by the commands

 $\verb|\ChTitleUpperCase|, \verb|\ChTitleLowerCase| and \verb|\ChNameAsIs||$

The rule width of the predefined chapter styles can be controlled by the command

just remember that the width must have a unit, for instance pt, mm, etc. The font related matters such as size, type and face can be sent using the commands

related to the chapter name number and title respectively. The argument, stuff, to these functions can be for example $\mbox{ChNameVar}_{\mbox{huge}\mbox{rm}}$.

Chapitre 3

An overview of the chapter styles

The chapter styles have default settings for all of the functions described in section 2.1. However, it can be changed using the commands. Note that if \centering, etc is used to format the text part of the chapter style then the result can be ugly. The chapter style Bjarne contains one additional command

\TheAlphaChapter

This command will write the chapter number using the corresponding word. \TheAlphaChapter have a capability of writing the words ZERO to NINETYNINE.

In the following sections the pre-defined styles are shown along with the default settings. Both the \chapter and \chapter* are given.

3.1 The chapter Sonny

The following settings have been used as default parameters

\ChNumVar{\\Huge} \ChTitleVar{\\Large\sf} \ChRuleWidth{0.5pt} \ChNameUpperCase

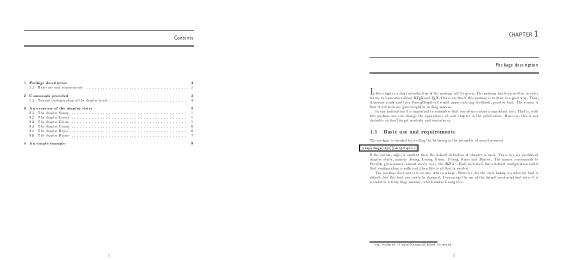


FIGURE 3.1 – The stared chapter style sonny

FIGURE 3.2 – The chapter style Sonny

3.2 The chapter Lenny

The following settings have been used as default parameters

 $\label{lem:chnameVar{fontsize{14}{16}\setminus \{0T1\}\{phv\}\{m\}\{n\}\setminus \{0T1\}\{phv\}\{m\}\{n\}\setminus \{0T1\}\{phv\}\{m\}\{n\}\setminus \{0T1\}\{phv\}\{n\}\}\} \\$

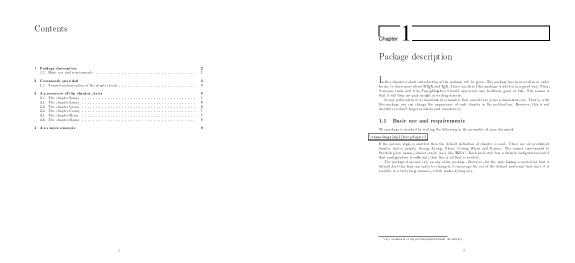


FIGURE 3.3 – The stared chapter style Lenny

FIGURE 3.4 – The chapter style Lenny

Note: An alternative version of this chapter head exist entitled *PetersLenny*.

3.3 The chapter Glenn

The following settings have been used as default parameters

ChNameVar{\bfseries\Large\sf}, \ChNumVar{\Huge}, \ChTitleVar{\bfseries\Large\rm}, \ChTitleVar{\bfse

FIGURE 3.5 – The stared chapter style Glenn

FIGURE 3.6 – The chapter style Glenn

3.4 The chapter Conny

The following settings have been used as default parameters

ChNumVar{\Huge} \ ChNumVar{\Huge} \ ChNumVar{\Luge\rm \bfootnote{\Luge} \ ChNumVar{\Centering \Huge \rm \bfootnote{\Luge} \ ChNumVar{\Luge \rm \bfootnote{\Luge} \ ChNumVar{\Luge \rm \bfootnote{\Luge} \ ChNumVar{\Luge \rm \bfootnote{\Luge} \ ChNumVar{\Luge} \ ChNumVar{\Luge \rm \bfootnote{\Luge} \ ChNumVar{\Luge \rm \bfootnote{\Luge \rm \bfootnote

FIGURE 3.7 – The stared chapter style Conny

FIGURE 3.8 – The chapter style Conny

3.5 The chapter Rejne

The following settings have been used as default parameters

ChNameUpperCase, ChRuleWidth{1pt}

CONTENTS

CHAPTER

CONTENTS

CHAPTER

CONTENTS

CHAPTER

CHAPTER

CHAPTER

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Learn and a standard and a

FIGURE 3.9 – The stared chapter style Rejne

FIGURE 3.10 – The chapter style Rejne

3.6 The chapter Bjarne

The following settings have been used as default parameters

ChNameUpperCase | ChNameVar{\raggedleft\normalsize\rm} | ChRuleWidth{1pt} | ChTitleUpperCase | ChNumVar{\raggedleft\ bfseries\Large} | ChNumVar{\raggedleft\ Large\rm} | ChRuleWidth{1pt} | ChTitleVar{\raggedleft\ Large\rm} | ChTitleUpperCase | Contents |

FIGURE 3.11 – The stared chapter style Bjarne

FIGURE 3.12 – The chapter style Bjarne

3.7 The chapter Bjornstrup

The following settings have been used as default parameters

 $\label{lem:chnumVar{fontsize{76}{80}\setminus \{0T1\}{pzc}{m}{n}\setminus ChTitleVar{\text{\raggedleft}Large\sffamily\bfseries}}$

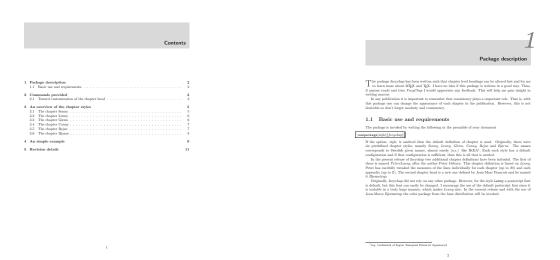


FIGURE 3.13 – The stared chapter style Bjornstrup

Figure 3.14 – The chapter style Bjornstrup

Note : It appears as if the rendering in YAP (dvi previewer in MikTeX) differs from dvips in that the gray box become foreground. Thus, the chapter number is partly hidden.

Chapitre 4

A simple example

If the pre defined styles does not fulfill your needs then you can modify the formating routines. The formatting is controlled by three commands. One might as well redefine the original chapter definitions using the \secdef and \renewcommand, see The LaTeX companion. However, at the time of creating this package I decided that this was easier. The command

 $\backslash DOCH$

formats the chapter name and number. The commands

 $\texttt{DOTI}\{\#1\}$

and

 $\texttt{\baselineskip} \texttt{\baselineskip} \texttt{\b$

formats the chapter title for \chapter and \chapter* respectively. In order to modify these you will have to use the preamble along with the commands \makeatletter and \makeatother. The in addition some predefined parameters can be used. The predefined length variables are

```
\mylen, \myhi, \px, \py, \pxx, \pyy and \RW
```

note that \RW is special, since it is set by \ChRuleWidth. The formatting controlled by \ChNumVar, \ChNumVar and \ChTitleVar store their values in \CNV, \CNoV and \CTV respectively. Finally, The functions \FmN{ } and \FmTi{ } acts accordingly to \Ch***AsIs, \Ch***UpperCase and \Ch***LowerCase. Note that the stars indicate appropriate substitution of text, see section 2.1.

To illustrate this lets define a new chapter style in which the Chapter name and number in a \fbox and the chapter title centered. The \fboxrule is linked to the predefined length \RW so that it can be controlled by the command \ChRuleWidth. Try this example at a computer near you.

```
\makeatletter
  \ChNameVar{\Large\rm}
                           % sets the style for name
                           % sets the style for digit
  \ChNumVar{\Huge}
  \ChTitleVar{\Large\rm\centering}
                                     % sets the style for title
  \ChRuleWidth{4pt}
                           % Set RW=4pt
  \ChNameUpperCase
                           % Make name uppercase
  \renewcommand{\DOCH}{%
   \setlength{\fboxrule}{\RW} % Let fbox lines be controlled by
                               % \ChRuleWidth
   \fbox{\CNV\FmN{\@chapapp}\space \CNoV\thechapter}\par\nobreak
   \ \vskip 40\p0
```

```
\renewcommand{\DOTI}[1]{%
  \CTV\FmTi{#1}\par\nobreak
  \vskip 40\p@}
\renewcommand{\DOTIS}[1]{%
  \CTV\FmTi{#1}\par\nobreak
  \vskip 40\p@}
\makeatother
```

That is all there is to it. Note that the commands \DOTIS can be redefined anywhere in the document, but that is not a good idea. Suppose that you want to use the \TheAlphaChapter . This can be done by initially chose the style Bjarne and then redefine \DOCH , \DOTIS and \DOTIS .



Revision details

This is version 1.34, some minor problems have been addressed and two new predefined chapter heads have been incorporated. The upper case and lower case handling have been corrected. A bad behavior in changes between \frontmatter, \mainmatter and \backmatter, have been fixed.

In version 1.33 Rejne definition stretched text caused ugly gaps in the vrule aligned with the title text. A compatibility problem with the KOMA class 'scrbook.cls' the remedy is a redefinition of 'schapter' in line with that used in KOMA. This might not be good since it differs from the base definition. A spell error was corrected.

In version 1.3, a problem with appendices in the Bjarne style was corrected. Wrong behavior, for the commands \frontmatter, \mainmatter and \backmatter was dealt with.

In the release 1.11 of the current package. A bug fix of the Lenny option was included. The problem, reported by Diab Jerius, occurred (underfull vbox) when the option Lenny was used in conjunction with \section-command such that the section is typeset at the next page. This caused one line to be misplaced. The remedy was to box the chapter title.

In the release (1.1) of the current package. A modification was made such that it will work with the book class. The problem occurred when the fncychap styles Conny, Rejne, Bjarne or Glenn were used in conjunction with the LATEX command \tabelofcontents. The exact reason for the error is not yet found. The problem was reported by Olivier Guibe.

In the prior release there were no major improvements of the package. However, the package name was changed in order to conform with the (DOS) requirement of eight characters. I also received some feedback, informing me that the LATEX base have to be post 1994/12/01. This information has been included in the package such that if an old base is used a warning will be written into the log. Release history:

Release 1 1996/12/13 FancyChapters 1.0b

Release 2 1997/01/08 FncyChap 1.0 (Name change, base date option)

Release 3 1997/01/22 FncyChap 1.1 (Bug fix)

Release 4 1997/04/06 FncyChap 1.11 (Bug fix)

Release 5 2004/09/20 FncyChap 1.3 (Bug fix)

Release 6 2005/08/09 FncyChap 1.33 (Bug fix)

Release 7 2007/07/31 FncyChap 1.34 (Bug fix)