

L'extension FncyChap  
V1.34

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# 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  $\text{\TeX}$  et  $\text{\LaTeX}$ . 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

```
\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<sup>1</sup>. 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.

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1. Marque déposée d'Ingvar Kamprad Emtaryd Agunnaryd.

# Chapitre 2

## Nouvelles commandes

EN parallèle des styles de chapitre, quelques commandes additionnelles sont mises à disposition afin de créer ses titres de chapitre personnalisés. Les commandes vont être décrites les unes à la suite des autres. Chaque commande est encadrée et placée sur une ligne séparée. Commençons donc ces descriptions.

`\mghrulefill{largeur}`

La commande ci-dessus est une version plus générale de la commande `\hrulefill` dans le sens où la largeur du filet peut être spécifiée. Cette commande est fournie pour décorer les titres de chapitre. Les titres se divisent en deux parties. La première définit `\chapapp` contenant le texte « Chapter »<sup>1</sup> ainsi que `\thechapter` contenant le numéro du chapitre. La seconde partie est le titre du chapitre donné par l'utilisateur. À partir d'ici, `\chapapp` et `\thechapter` seront respectivement nommé nom du chapitre et numéro du chapitre. Le titre donné par l'utilisateur sera nommé titre du chapitre.

### 2.1 Vers la personnalisation du titre de chapitre

Les nom, numéro et titre du chapitre peuvent être changés simplement. Introduisons ici les deux commandes suivantes :

`\ChNameUpperCase` et `\ChNameLowerCase`

qui passent respectivement le nom du chapitre en lettres majuscules (*uppercase*) ou en lettres minuscules (*lowercase*). Un cas particulier est ajouté pour le nom du chapitre, à savoir

`\ChNameAsIs`

qui affiche le format par défaut. Trois commandes similaires existent pour le titre du chapitre

`\ChTitleUpperCase`, `\ChTitleLowerCase` et `\ChTitleAsIs`

La largeur du filet des styles de chapitre prédéfinis peut être contrôlée par la commande

`\ChRuleWidth{largeur}`

en gardant en tête que la *largeur* doit avoir une unité, par exemple *pt*, *mm*, etc. Les éléments liés aux polices de caractères tels que la police, son corps, sa graisse peuvent être transmis par les commandes

`\ChNameVar{argument}`, `\ChNumVar{argument}` et `\ChTitleVar{argument}`

liées respectivement aux nom, numéro et titre du chapitre. L'*argument* de ces fonctions peut être par exemple `\ChNameVar{\huge\rm\centering}`.

---

1. N.D.T. : avec le chargement de *color* et de son option **french**, ce texte est « Chapitre ».

# Aperçu des styles de chapitre

LES styles de chapitre ont tous des réglages par défaut pour chacune des commandes décrites en section 2.1. Cependant, ils peuvent être changés en recourant à ces commandes. Notez que si `\centering`, etc. est utilisé pour mettre en forme le titre de chapitre, cela peut conduire à des résultats affreux. Le style de chapitre *Bjarne* contient une commande complémentaire

`\TheAlphaChapter`

Cette commande écrit le numéro du chapitre en utilisant les mots équivalents. `\TheAlphaChapter` peut écrire les nombres de `emphZERO` to *NINETYNINE*<sup>1</sup>.

Dans les sections suivantes, les styles prédéfinis sont présentés en compagnie de leur paramétrage par défaut. Les versions `\chapter` et `\chapter*` (dite « étoilée ») sont toutes deux illustrées.

## 3.1 Le style de chapitre Sonny

Les paramètres par défaut sont les suivants :

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

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FIGURE 3.1 – Le style Sonny « étoilé »

CHAPTER 1

Package description

In this chapter a short introduction of the package will be given. The package has been written in order for me to learn more about `\Large` and `\Huge`. I have no idea if this package is written in a good way. Thus, if anyone reads and later `\unlign@pt` I would appreciate any feedback, good or bad. The reason is that it will help me gain insight in writing macros.

In any publication it is important to remember that consistency plays a important role. That is, with this package one can change the appearance of each chapter in the publication. However, this is not desirable so don't forget modesty and consistency.

### 1.1 Basic use and requirements

The package is invoked by writing the following in the preamble of your document

`\usepackage[style]{fontspec}`

If the option, `style`, is omitted then the default definition of chapter is used. There are six predefined chapter styles, namely *Sonny*, *Lemmy*, *Glenn*, *Genny*, *Bjørn* and *Bjarne*. The names corresponds to Swedish given names, almost surely like *the IKEA's*. Each style has a default configuration and if that configuration is sufficient, then this is all that is needed.

The package does not rely on any other package. However, for the style *Lemmy* a postscript font is default, but this font can easily be changed. I encourage the use of the default postscript font since it is available in a truly large number, which makes *Lemmy* quite.

Vreg, treatment of hyper Rumpert Emblem: Axiomatic

FIGURE 3.2 – Le style Sonny

1. N.D.T. : dans un texte français, il faut redéfinir la commande `\TheAlphaChapter` ainsi que la commande `\AlphaNo` pour remplacer les termes anglais par des termes français.

## 3.2 Le style de chapitre Lenny

Les paramètres par défaut sont les suivants :

```
\ChNameVar{\fontsize{14}{16}\usefont{OT1}{phv}{m}{n}\selectfont}
\ChNumVar{\fontsize{60}{62}\usefont{OT1}{ptm}{m}{n}\selectfont}
\ChTitleVar{\Huge\bfseries\rm} \ChRuleWidth{1pt}
```

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### Chapter 1

#### Package description

In this chapter a short introduction of the package will be given. The package has been written in order for me to learn more about `BigTeX` and `TeX`. There are often if this package is written in a good way. Thus, if anyone reads and likes `Package description` I would appreciate any feedback, good or bad. The reason is that it will help me gain insight in writing macros.

In any publication it is important to remember that consistency plays a important role. That is, with this package one can change the appearance of each chapter in the publication. However, this is not desirable so don't forget consistency.

#### 1.1 Basic use and requirements

The package is invoked by writing the following in the preamble of your document

```
\usepackage[dg]{lennychapter}
```

If the option `style` is omitted then the default definition of chapter is used. There are six predefined chapter styles, namely `Sunny`, `Lenny`, `Glenn`, `Campy`, `Bajan` and `Bjorne`. The names corresponds to Swedish given names, almost every in `x` like `IKKA`. Each style has a default configuration and if that configuration is sufficient, then this is all that is needed.

The package does not rely on any other package. However, for the style `Lenny` a postscript font is default, but this font can easily be changed. I encourage the use of the default postscript font since it is available in a truly large manner, which makes `lennychapter`.

Very rudimentary of chapter `lennychapter` and `lennychapter`

FIGURE 3.3 – Le style Lenny « étoilé »

FIGURE 3.4 – Le style Lenny

**Note :** Une version alternative nommée *PetersLenny* existe.

## 3.3 Le style de chapitre Glenn

Les paramètres par défaut sont les suivants :

```
\ChNameVar{\bfseries\Large\sf} \ChNumVar{\Huge} \ChTitleVar{\bfseries\Large\rm},
\ChRuleWidth{1pt} \ChNameUpperCase \ChTitleUpperCase
```

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### CHAPTER 1

#### PACKAGE DESCRIPTION

In this chapter a short introduction of the package will be given. The package has been written in order for me to learn more about `BigTeX` and `TeX`. There are often if this package is written in a good way. Thus, if anyone reads and likes `Package description` I would appreciate any feedback, good or bad. The reason is that it will help me gain insight in writing macros.

In any publication it is important to remember that consistency plays a important role. That is, with this package one can change the appearance of each chapter in the publication. However, this is not desirable so don't forget consistency.

#### 1.1 Basic use and requirements

The package is invoked by writing the following in the preamble of your document

```
\usepackage[dg]{glennchapter}
```

If the option `style` is omitted then the default definition of chapter is used. There are six predefined chapter styles, namely `Sunny`, `Lenny`, `Glenn`, `Campy`, `Bajan` and `Bjorne`. The names corresponds to Swedish given names, almost every in `x` like `IKKA`. Each style has a default configuration and if that configuration is sufficient, then this is all that is needed.

The package does not rely on any other package. However, for the style `Lenny` a postscript font is default, but this font can easily be changed. I encourage the use of the default postscript font since it is available in a truly large manner, which makes `glennchapter`.

Very rudimentary of chapter `glennchapter` and `glennchapter`

FIGURE 3.5 – Le style Glenn « étoilé »

FIGURE 3.6 – Le style Glenn

## 3.4 Le style de chapitre Conny

Les paramètres par défaut sont les suivants :

```
\ChNameUpperCase \ChTitleUpperCase \ChNameVar{\centering\Huge\rm\bfseries}
\ChNumVar{\Huge} \ChRuleWidth{2pt} \ChTitleVar{\centering\Huge\rm}
```

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3.4 The chapter Conny	5
3.5 The chapter Conny	5
3.6 The chapter Conny	5
4 An simple example	9

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FIGURE 3.7 – Le style Conny « étoilé »

CHAPTER 1	
PACKAGE DESCRIPTION	

This chapter is short introduction of the package will be given. The package has been written in order for me to learn more about  $\TeX$  and  $\LaTeX$ . I have an idea if this package is written in a good way. Then, if anyone reads and starts  $\TeX$  or  $\LaTeX$  I would appreciate any feedback, good or bad. The reason is that it will help me gain insight in writing macros.

In any situation it is important to remember that consistency plays an important role. That is, with this package one can change the appearance of each chapter in the publication. However, this is not desirable so don't forget consistency and consistency.

### 1.1 Basic use and requirements

The package is loaded by writing the following in the preamble of your document

```
\usepackage{dfig} [for chapter style]
```

If the option, `dfig`, is omitted then the default definition of chapter is used. There are six predefined chapter styles, namely `Swedish`, `Conny`, `Conny`, `Conny`, `Conny` and `Conny`. The names corresponds to Swedish given names, almost surely (as I like `Conny`). Each style has a default configuration and if this configuration is sufficient, then this is all that is needed.

The package does not rely on any other package. However, for the style `Conny` a postscript font is default, but this font can easily be changed. I encourage the use of the default postscript font since it is available in a very large manner, which makes `Conny` easy.

Fig. 3.7 shows the chapter Conny in the style Conny.

2

FIGURE 3.8 – Le style Conny

## 3.5 Le style de chapitre Rejne

Les paramètres par défaut sont les suivants :

```
\ChNameVar{\centering\Huge\rm\bfseries} \ChNumVar{\Huge} \ChTitleVar{\centering\Huge\rm}
\ChNameUpperCase \ChTitleUpperCase \ChRuleWidth{1pt}
```

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FIGURE 3.9 – Le style Rejne « étoilé »

CHAPTER 1	
PACKAGE DESCRIPTION	

This chapter is short introduction of the package will be given. The package has been written in order for me to learn more about  $\TeX$  and  $\LaTeX$ . I have an idea if this package is written in a good way. Then, if anyone reads and starts  $\TeX$  or  $\LaTeX$  I would appreciate any feedback, good or bad. The reason is that it will help me gain insight in writing macros.

In any situation it is important to remember that consistency plays an important role. That is, with this package one can change the appearance of each chapter in the publication. However, this is not desirable so don't forget consistency and consistency.

### 1.1 Basic use and requirements

The package is loaded by writing the following in the preamble of your document

```
\usepackage{dfig} [for chapter style]
```

If the option, `dfig`, is omitted then the default definition of chapter is used. There are six predefined chapter styles, namely `Swedish`, `Conny`, `Conny`, `Conny`, `Conny` and `Conny`. The names corresponds to Swedish given names, almost surely (as I like `Conny`). Each style has a default configuration and if this configuration is sufficient, then this is all that is needed.

The package does not rely on any other package. However, for the style `Conny` a postscript font is default, but this font can easily be changed. I encourage the use of the default postscript font since it is available in a very large manner, which makes `Conny` easy.

Fig. 3.9 shows the chapter Rejne in the style Rejne.

2

FIGURE 3.10 – Le style Rejne

## 3.6 Le style de chapitre Bjarne

Les paramètres par défaut sont les suivants :

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

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FIGURE 3.11 – Le style Bjarne « étoilé »

CHAPTER ONE	
PACKAGE DESCRIPTION	
<p>I In this chapter a short introduction of the package will be given. The package has been written in order for me to learn more about L<sup>A</sup>T<sub>E</sub>X and T<sub>E</sub>X. I have no idea if this package is written in a good way. Thus, if anyone reads and tries <i>FancyChap</i> I would appreciate any feedback, good or bad. The reason is that it will help me gain insight in writing macros.</p> <p>In any publication it is important to remember that consistency plays a important role. That is, with this package one can change the appearance of each chapter in the publication. However, this is not desirable as don't forget modesty and consistency.</p> <h3>1.1 Basic use and requirements</h3> <p>The package is invoked by writing the following in the preamble of your document</p> <pre>\usepackage[style]{fancychap}</pre> <p>If the option, <i>style</i>, is omitted then the default definition of chapter is used. There are six predefined chapter styles, namely <i>Benny</i>, <i>Lesny</i>, <i>Glen</i>, <i>Cenay</i>, <i>Bjorne</i> and <i>Bjorne</i>. The names corresponds to Swedish given names, almost surely <i>xx</i> (like IKEA). Each such style has a default configuration and if that configuration is sufficient, then this is all that is needed.</p> <p>The package does not rely on any other package. However, for the <i>style Lesny</i> a postscript font is needed, but this font can easily be changed. I encourage the use of the default postscript font since it is available in a truly huge manner, which makes <i>Lesny</i> quite.</p> <hr/> <p><small>Fig. 3.11: An example of chapter Bjarne (Etoilé) with the package</small></p>	

FIGURE 3.12 – Le style Bjarne

## 3.7 Le style de chapitre Bjornstrup

Les paramètres par défaut sont les suivants :

```
\ChNumVar{\fontsize{76}{80}\usefont{OT1}{pzc}{m}{n}\selectfont}  
\ChTitleVar{\raggedleft\Large\sffamily\bfseries}
```

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FIGURE 3.13 – Le style Bjornstrup « étoilé »

1 Package description	
<p>The package <i>fancychap</i> has been written such that chapter level headings can be altered fast and far me to learn more about L<sup>A</sup>T<sub>E</sub>X and T<sub>E</sub>X. I have no idea if this package is written in a good way. Thus, if anyone reads and tries <i>FancyChap</i> I would appreciate any feedback. This will help me gain insight in writing macros.</p> <p>In any publication it is important to remember that consistency plays a important role. That is, with this package one can change the appearance of each chapter in the publication. However, this is not desirable as don't forget modesty and consistency.</p> <h3>1.1 Basic use and requirements</h3> <p>The package is invoked by writing the following in the preamble of your document</p> <pre>\usepackage[style]{fancychap}</pre> <p>If the option, <i>style</i>, is omitted then the default definition of chapter is used. Originally, there were six predefined chapter styles, namely <i>Benny</i>, <i>Lesny</i>, <i>Glen</i>, <i>Cenay</i>, <i>Bjorne</i> and <i>Bjorne</i>. The names corresponds to Swedish given names, almost surely <i>xx</i> (like IKEA). Each such style has a default configuration and if that configuration is sufficient, then this is all that is needed.</p> <p>In the present release of <i>fancychap</i> two additional chapter definitions have been included. The first of these is named <i>PeterLesny</i>, after the author Peter Olofsson. This chapter definition is based on <i>Lesny</i>. Peter has carefully treated the names of the lines individually for each chapter (up to 20) and each appendix (up to Z). The second chapter head is a new one defined by Jean-Marc Francois and he named it <i>Bjornstrup</i>.</p> <p>Originally, <i>fancychap</i> did not rely on any other package. However, for the style <i>Lesny</i> a postscript font is needed, but this font can easily be changed. I encourage the use of the default postscript font since it is available in a truly huge manner, which makes <i>Lesny</i> quite. In the current release and with the use of Jean-Marc Bjornstrup the whole package from the base distribution will be invoked.</p> <hr/> <p><small>Fig. 3.14: An example of chapter Bjornstrup (Etoilé) with the package</small></p>	

FIGURE 3.14 – Le style Bjornstrup

**Note :** la restitution faite par YAP (visualisateur dvi de MikTeX) diffère de dvips dans la mesure où la boîte grise passe au premier plan et cache ainsi une partie du numéro de chapitre.



# Chapitre 4

## Exemple simple

Si les styles prédéfinis ne répondent pas à vos besoins, vous pouvez modifier les routines de mise en forme. Cette mise en forme est contrôlée par trois commandes. ✖One might as well redefine the original chapter definitions using the `\secdef` and `\renewcommand`, see The L<sup>A</sup>T<sub>E</sub>X companion. However, at the time of creating this package I decided that this was easier. The command

```
\DOCH
```

formats the chapter name and number. The commands

```
\DOTI{#1}
```

and

```
\DOTIS{#1}
```

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 `\ChNameVar`, `\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
\ChNumVar{\Huge}           % sets the style for digit
\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\p@}
```

```

\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 `\DOTI` and `\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`, `\DOTI` and `\DOTIS`.

## Historique

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 L<sup>A</sup>T<sub>E</sub>X command `\tableofcontents`. 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 L<sup>A</sup>T<sub>E</sub>X 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)