# Various chapter styles for the memoir class[*]

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The main idea behind this document is to demonstrate various either contributed or inspired chapter styles for the memoir class.

If you have style you would like to contribute a style/implementation, please send it with a minimal example to daleif+memoir@imf.au.dk and I will include it into this document.

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The visual examples you will find later in this document have all been made using external documents and included as images (eps or pdf). As such, all images are scaled to have the same width as the text in this document, therefore some images are scaled down.

Also, please do not trust the spacing between the chapter title and the start of the following text. This \afterchapskip-spacing is silently reduced (to \onelineskip) in order to save space, the same goes for \beforechapskip.

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In any good chapter style design one should have given a thought at both the normal numbered style as well as the unnumbered style. Therefore the example text features both a numbered chapter and an unnumbered. (I have relaxed \clearforchapter in order to have both on the same side.)

The sample text used is

─────────────────────── chapterexample.tex ───────────────────────
```
%% LaTeX2e file 'chapterexample.tex'
%% generated by the 'filecontents' environment
%% from source 'MemoirChapStyles' on 2008/03/25.
%%
\chapter{A chapter title}
Some text at the beginning of a chapter. And we add a lot of text to
make sure that it spans more than one line.
\par\fancybreak{$***$}\par
\chapter*{A non-numbered chapter title}
Some text at the beginning of a chapter. And we add a lot of text to
make sure that it spans more than one line.
\thispagestyle{empty}
```
─────────────────────────────────────────────────────────────────

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If you want to use one of the styles presented in this document, then there is no need to start retyping it all your self. Simply download the source for this document (MemoirChapStyles.tex) from http://www.imf.au.dk/system/latex/artikler/MemoirChapStyles/ (where you will find the latest version) or from CTAN, via http://www.ctan.org/tex-archive/info/MemoirChapStyles/. Run it once through LaTeX, then you will get a file called ⟨*Name of style*⟩-style.tex, which is the source code for example displaying that particular style. Then just copy the code from there.

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[*]Version 1.6, 2008/03/25

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## Acknowledgement

Acknowledgement goes (of course) to Peter Wilson for creating the memoir class in the first place. But also to the people who contributed with styles or comments: Danie Els, David Chadd, Pluton (name used on CTT), Erik Quaeghebeur, Donald Arseneau plus the those who posted memoir chapter styles on news groups, I hope it is okay that I include them here.

## TODO

Have a look at the chapter styles offered by `fncychap` and `titlesec`.

# 1

# A little background

As you might already know the memoir class includes a feature to switch the look and feel of a chapter title on a chapter to chapter basis. This is achieved by using \chapterstyle{⟨*style*⟩}. The most extreme use of this is seen in *The Memoir class For Configurable Typesetting – User Guide* by Peter Wilson, also know as the *Memoir manual,* [1].

In general, LaTeX classes use \@makechapterhead to print a chapter title specified my chapter, and \@makeschapterhead for \chapter*. In memoir Peter Wilson made these two macros a bit more flexible than usual. The idea is that for numbered chapters (i.e. \chapter and secnumdepth ≥ 0) one should think of the chapter title as build by:

```
\chapterheadstart
\printchaptername \chapternamenum \printchapternum
\afterchapternum
\printchaptertitle{The title}
\afterchaptertitle
```

For unnumbered (i.e. \chapter* and \chapter width secnumdepth < 0):

```
\chapterheadstart
\printchapternonum
\printchaptertitle{The title}
\afterchaptertitle
```

Note that \printchaptertitle is the only macro that takes an argument. At the start of every memoir chapter style these macros are initialised to

```
\renewcommand\chapterheadstart{\vspace*{\beforechapskip}}
\renewcommand\printchaptername{\chapnamefont \@chapapp}
\renewcommand\chapternamenum{\space}
\renewcommand\printchapternum{\chapnumfont \thechapter}
\renewcommand\afterchapternum{\par\nobreak\vskip \midchapskip}
\renewcommand\printchapternonum{}
\renewcommand\printchaptertitle[1]{\chaptitlefont #1}
\renewcommand\afterchaptertitle{\par\nobreak\vskip \afterchapskip}
```

So one just have to change the ones one need. There are a few other macros that are nice to know the meaning of. Remember that these are *not* reset at the start of a new chapter style.

\beforechapskip  length, self explanatory, usually set using \chapterheadstart, default 50pt

\midchapskip  length, distance between the chapter name / number and the title, usually set using
\afterchapternum, default 20pt

`\afterchapskip` length, distance between the chapter title and the following text, usually set using `\afterchaptertitle`, default 40pt

`\chapnamefont` the font setting used for *Chapter* or similar, default `\normalfont\huge\bfseries`

`\chapnumfont` same for the chapter number, default `\normalfont\huge\bfseries`

`\chaptitlefont` same for the chapter title, default `\normalfont\Huge\bfseries`

One might ask what `\printchapternonum` is good for when it is always initialised to nothing. Well if a design need to one could use it to insert a phantom width as wide as the chapter name plus number would have been. If on the other hand one is creating a style where the chapter name and number is actually typeset using `\printchaptertitle` (like a framed one) then one could first define a new if construction, say, `\ifNoChapNum` and then let `\printchapternonum` set this to true and so on.

In memoir a new chapter style is defined as

`\makechapterstyle{⟨name⟩}{`
⟨*code*⟩
`}`

Where ⟨*code*⟩ is redefinitions of the macros mentioned above. (Remember that if you redefine `\printchaptertitle` then you have to use ##1 to represent the title.) Activating a given style is done by simply issuing

`\chapterstyle{⟨name⟩}`

By the way, if you happen to like a given style but wanted to, say, add color to the chapter title, you could just refine `\chaptitlefont` after you have issued `\chapterstyle`. (Even simpler to just use `\addtodef\chaptitlefont{}{\color{nicered}}`.)

As a simple example, here is the code for the section chapter style

────────────────── Source code for the section chapter style ──────────────────
```
\makechapterstyle{section}{%
  \renewcommand{\printchaptername}{}
  \renewcommand{\chapternamenum}{}
  \renewcommand{\chapnumfont}{\normalfont\Huge\bfseries}
  \renewcommand{\printchapternum}{\chapnumfont \thechapter\space}
  \renewcommand{\afterchapternum}{}
}
```
────────────────────────────────────────────────────────────────────────────────

# Default styles included in memoir

First we have the six default chapterstyles in the memoir class. The source code for these can be found in `memoir.cls`.

─────────────── Source for the default style ───────────────

```
\chapterstyle{default}
```

## Chapter 1

# A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

<center>* * *</center>

# A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

```
\chapterstyle{section}
```

# 1 A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

<div align="center">* * *</div>

# A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

```
\chapterstyle{hangnum}
```

# 1    A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

<div align="center">* * *</div>

# A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

```
\chapterstyle{companion}
```

CHAPTER 1

# A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

*** 

# A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

```
\chapterstyle{article}
```

## 1 A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

*** 

## A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

`\chapterstyle{demo}`

# One

## A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

<p align="center">* * *</p>

## A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

# Styles included in mempatch as of version 4.6

These styles are available via `mempatch.sty` version 4.6, released 2006/12/15. The styles are either PWs own designs or designs found via CTT. Please see [2] for further information.

─────────────── Source for the bianchi style ───────────────

```
\chapterstyle{bianchi}
```

*Chapter 1*

## A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

\* \* \*

## A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

```
\chapterstyle{bringhurst}
```

## A CHAPTER TITLE

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

<div align="center">* * *</div>

## A NON-NUMBERED CHAPTER TITLE

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

```
\chapterstyle{brotherton}
```

# Chapter One

# A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

<div align="center">* * *</div>

# A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

```
\chapterstyle{chappell}
```

<div style="border:1px solid">

# Chapter 1

---

## *A chapter title*

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

$$* * *$$

---

## *A non-numbered chapter title*

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

</div>

```
\chapterstyle{culver}
```

<div style="border:1px solid">

# I  A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

$$* * *$$

# A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

</div>

```
\chapterstyle{dash}
```

—— 1 ——

A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

\* \* \*

A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

```
\chapterstyle{demo2}
```

# One

## A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

\* \* \*

## A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

```
\chapterstyle{ell}
```

# 1

## A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

$$* * *$$

## A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

Note that this style is wrongly named in [2].

```
\chapterstyle{Ger}
```

# Chapter 1

# A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

<div align="center">* * *</div>

# A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

```
\usepackage{graphicx}
\chapterstyle{lyhne}
```

CHAPTER **1**

## A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

$$* * *$$

## A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

Please note that there is an error in this style. The unnumbered title should also be typeset raggedleft. This can be done by adding

```
\renewcommand*{\chaptitlefont}{%
  \normalfont\Huge\bfseries\sffamily\raggedleft}
```

after `\chapterstyle{madsen}`.

─────────────── Source for the madsen style ───────────────

```
\usepackage{graphicx}
\chapterstyle{madsen}
```

─────────────────────────────────────────────────────────

CHAPTER **1**
───────────────────────────────────

# A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

* * *

# A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

```
\usepackage{color,graphicx}
\definecolor{ared}{rgb}{.647,.129,.149}
\renewcommand\colorchapnum{\color{ared}}
\renewcommand\colorchaptitle{\color{ared}}
\chapterstyle{pedersen}
```

*1*

## *A chapter title*

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

\* \* \*

## *A non-numbered chapter title*

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

```
\chapterstyle{southall}
```

# 1      A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

\* \* \*

# A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

```
\chapterstyle{thatcher}
```

CHAPTER 1

A CHAPTER TITLE

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

*\*\**

A NON-NUMBERED CHAPTER TITLE

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

```
\usepackage{graphicx}
\chapterstyle{veelo}
```

CHAPTER 1 ▬▬▬▬▬

A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

*\*\**

A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

# 1. A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

<p align="center">* * *</p>

# A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

# 4

# Styles found via Google Groups

Please note that most of the styles that were mentioned here in earlier versions of this document, are now a part of memoir and therefore removed.

By Alexander Grebenkov 2004/11/25, found via Google Groups on fido.ru.tex.

―――――――――――――――――― Source for the AlexanderGrebenkov style ――――――――――――――――――

```
  \makechapterstyle{AlexanderGrebenkov}{%
 \renewcommand{\chapterheadstart}{\vspace*{\beforechapskip}\hrule\medskip}
 \renewcommand{\chapnamefont}{\normalfont\large\scshape}
 \renewcommand{\chapnumfont}{\normalfont\large\scshape}
 \renewcommand{\chaptitlefont}{\normalfont\large\scshape}
 \renewcommand{\printchaptername}{\S}
 \renewcommand{\chapternamenum}{ }
 \renewcommand{\printchapternum}{\chapnumfont \thechapter}
 \renewcommand{\afterchapternum}{. }
 \renewcommand{\afterchaptertitle}{\par\nobreak\medskip\hrule\vskip
\afterchapskip}
}
\chapterstyle{AlexanderGrebenkov}
```

―――――――――――――――――――――――――――――――――――――――――――――――――――――――――――――――

## § 1. A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

<p align="center">* * *</p>

## A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

# Contributed styles

First here are are few of my own.

─────────────────── Source for the daleif1 style ───────────────────

```
\usepackage{color,calc,graphicx,soul,fourier}
\definecolor{nicered}{rgb}{.647,.129,.149}
\makeatletter
\newlength\dlf@normtxtw
\setlength\dlf@normtxtw{\textwidth}
\def\myhelvetfont{\def\sfdefault{mdput}}
\newsavebox{\feline@chapter}
\newcommand\feline@chapter@marker[1][4cm]{%
  \sbox\feline@chapter{%
    \resizebox{!}{#1}{\fboxsep=1pt%
      \colorbox{nicered}{\color{white}\bfseries\sffamily\thechapter}%
    }}%
  \rotatebox{90}{%
    \resizebox{%
      \heightof{\usebox{\feline@chapter}}+\depthof{\usebox{\feline@chapter}}}%
    {!}{\scshape\so\@chapapp}}\quad%
  \raisebox{\depthof{\usebox{\feline@chapter}}}{\usebox{\feline@chapter}}%
}
\newcommand\feline@chm[1][4cm]{%
  \sbox\feline@chapter{\feline@chapter@marker[#1]}%
  \makebox[0pt][l]{% aka \rlap
    \makebox[1cm][r]{\usebox\feline@chapter}%
  }}
\makechapterstyle{daleif1}{
  \renewcommand\chapnamefont{\normalfont\Large\scshape\raggedleft\so}
  \renewcommand\chaptitlefont{\normalfont\huge\bfseries\scshape\color{nicered}}
  \renewcommand\chapternamenum{}
  \renewcommand\printchaptername{}
  \renewcommand\printchapternum{\null\hfill\feline@chm[2.5cm]\par}
  \renewcommand\afterchapternum{\par\vskip\midchapskip}
  \renewcommand\printchaptertitle[1]{\chaptitlefont\raggedleft ##1\par}
}
\makeatother
\chapterstyle{daleif1}
```

─────────────────────────────────────────────────────────────────────

CHAPTER

**1**

## A CHAPTER TITLE

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

* * *

## A NON-NUMBERED CHAPTER TITLE

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

This next style was made one late night for a talk about memoir in the Danish TeX Users Group. It has later been used in a few master theses.

─────────────── Source for the `daleif2` style ───────────────

```
\usepackage{graphicx}
\makechapterstyle{daleif2}{
  \renewcommand\chapnamefont{\normalfont\Large\scshape\raggedleft}
  \renewcommand\chaptitlefont{\normalfont\Huge\bfseries\sffamily\raggedleft}
  \renewcommand\chapternamenum{}
  \renewcommand\printchapternum{%
    \makebox[0pt][l]{\hspace{0.4em}%
      \resizebox{!}{4ex}{\chapnamefont\bfseries\sffamily\thechapter}}}
  \renewcommand\afterchapternum{\par\hspace{1.5cm}\hrule\vskip\midchapskip}
}
\chapterstyle{daleif2}
```

# A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

<div align="center">* * *</div>

# A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

Style build upon VZ15b, see later.

──────── Source for the daleif3 style ────────

```
\usepackage{fourier}
\makeatletter
\newif\iffelinenonum
\newcommand\MyNumToName[1]{%
  \ifcase#1\relax % case 0
  \or First\or Second\or Third%
  \else Not implemented\fi}
\makechapterstyle{daleif3}{
  \renewcommand\chapternamenum{}
  \renewcommand\printchaptername{}
  \renewcommand\chapnamefont{\small\itshape\centering}
  \setlength\midchapskip{7pt}
  \renewcommand\printchapternum{%
    \par\chapnamefont\decofourleft\enspace%
    \ifanappendix
    \appendixname\space\thechapter%
    \else%
    \MyNumToName{\thechapter}\space\chaptername%
    \fi%
    \/\enspace\decofourright}
  \renewcommand\printchapternonum{\par\felinenonumtrue}
  \renewcommand\chaptitlefont{\huge\itshape\centering}
  \renewcommand\afterchapternum{%
    \par\nobreak\vskip-5pt%
  }
  \renewcommand\afterchaptertitle{%
    \par\vskip-2\midchapskip%
    \rule\textwidth\normalrulethickness
    \felinenonumfalse
    \nobreak\vskip\afterchapskip%
  }
}
```

```
\makeatother
\chapterstyle{daleif3}
```

---

<div style="border:1px solid">

❧ *First Chapter* ❧

## A chapter title

---

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

$$* * *$$

## A non-numbered chapter title

---

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

</div>

Danie Els contributed the following style along with the BlueBox style on page .

──────── Source for the GreyNum style ────────

```
\usepackage{fix-cm}
\usepackage{fourier}%.................. Roman+math - Utopia
\usepackage[scaled=.92]{helvet}%....... Sans serif - Helvetica
\usepackage[T1]{fontenc}
\usepackage{color}
\definecolor{ChapGrey}{rgb}{0.6,0.6,0.6}
\newcommand{\LargeFont}{% Needs a 'stretchable' font
     \usefont{\encodingdefault}{\rmdefault}{b}{n}%
     \fontsize{60}{80}\selectfont\color{ChapGrey}}
\makeatletter
\makechapterstyle{GreyNum}{%
  \renewcommand{\chapnamefont}{\large\sffamily\bfseries\itshape}
  \renewcommand{\chapnumfont}{\LargeFont}
  \renewcommand{\chaptitlefont}{\Huge\sffamily\bfseries\itshape}
  \setlength{\beforechapskip}{0pt}
  \setlength{\midchapskip}{40pt}
  \setlength{\afterchapskip}{60pt}
  \renewcommand\chapterheadstart{\vspace*{\beforechapskip}}
  \renewcommand\printchaptername{%
    \begin{tabular}{@{}c@{}}
      \chapnamefont \@chapapp\\}
    \renewcommand\chapternamenum{\noalign{\vskip 2ex}}
    \renewcommand\printchapternum{\chapnumfont\thechapter\par}
    \renewcommand\afterchapternum{%
    \end{tabular}
    \par\nobreak\vskip\midchapskip}
  \renewcommand\printchapternonum{}
  \renewcommand\printchaptertitle[1]{%
    {\chaptitlefont{##1}\par}}
  \renewcommand\afterchaptertitle{\par\nobreak\vskip \afterchapskip}
}
```

```
\makeatother
\chapterstyle{GreyNum}
```

---

*Chapter*

# 1

# *A chapter title*

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

<div align="center">

\* \* \*

</div>

# *A non-numbered chapter title*

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

---

Danie notes:

*This looks a lot better with real italics sans-serif fonts such as Lucida Sans*
```
\usepackage[expert,vargreek]{lucidabr}%.. Lucida Bright + Expert (commercial)
```
*or Myrad*
```
\usepackage{charter}%.......... Roman     – Charter
\renewcommand{\sfdefault}{fmy}%. Sans serif – Myrad (Springer bundle)
```
<div align="center">

❖  ❖  ❖

</div>

This next style is inspired by a mail I recieved from Erik Quaeghebeur. It took me a little while to actually get this working as I wanted it to, partly because apparently there is a small issue regarding \thispagestyle and \pagestyle as to which \chaptermark gets used (I got around this by using the afterpage package). This style is designed to be used with openleft (i.e. chapters starting on even pages). And since the design uses pagestyles, we need to show several seperate pages.

───────────────────────── Source for the EQ style ─────────────────────────

```
\documentclass[openleft]{memoir}
\usepackage{calc}
\usepackage{afterpage}
\copypagestyle{EQ-pagestyle}{companion}
\setlength{\headwidth}{\textwidth}
\addtolength{\headwidth}{.382\foremargin}
\makerunningwidth{EQ-pagestyle}{\headwidth}
\makeheadposition{EQ-pagestyle}{flushright}{flushleft}{}{}
\makeevenhead{EQ-pagestyle}{\normalfont\bfseries\thepage}{}{\normalfont\bfseries\leftmark}
\makeoddhead{EQ-pagestyle}{\normalfont\bfseries\rightmark}{}{\normalfont\bfseries\thepage}
\newif\ifNoChapNum
\makeatletter
% chapterpage layout
\copypagestyle{EQ-chapterstyle}{EQ-pagestyle}
\makeheadposition{EQ-chapterstyle}{flushright}{flushleft}{}{}
\makeevenhead{EQ-chapterstyle}{%
  \normalfont\bfseries\thepage}{}{%
  \ifnum \c@secnumdepth>\m@ne%
    \ifNoChapNum%
      \raisebox{-4.5pt}[0pt][0pt]{\chapnamefont \rightmark}%
    \else%
      \raisebox{-4.5pt}[0pt][0pt]{\chapnamefont\@chapapp\ \thechapter}%
    \fi%
  \else%
    \raisebox{-4.5pt}[0pt][0pt]{\chapnamefont\rightmark}%
  \fi%
  }
\makeoddhead{EQ-chapterstyle}{\rightmark}{}{\normalfont\bfseries\thepage}
% build in the shorter headline
\@namedef{EQ-chapterstyleheadrule}{%
  \ifnum \c@secnumdepth>\m@ne%
    \ifNoChapNum%
      \settowidth\@tempdimc{\quad\chapnamefont\rightmark}%
    \else%
      \settowidth\@tempdimc{\quad\chapnamefont\@chapapp\ \thechapter}%
    \fi%
  \else%
  \settowidth\@tempdimc{\quad\chapnamefont\rightmark}%
  \fi%
  \setlength\@tempdimc{\headwidth-\@tempdimc}%
  \hrule\@width \@tempdimc\@height \normalrulethickness \vskip-\normalrulethickness%
}
\aliaspagestyle{chapter}{EQ-chapterstyle}
\pagestyle{EQ-pagestyle}
\makechapterstyle{EQ}{
  \renewcommand{\chapnamefont}{\raggedleft\bfseries\huge}
  \renewcommand{\chapternamenum}{}
  \renewcommand\printchaptername{}
  \renewcommand\printchapternum{}
  \renewcommand\printchaptertitle[1]{%
    \ifnum \c@secnumdepth>\m@ne%
```

```latex
    \ifNoChapNum\else\chaptitlefont ##1\fi%
    \fi%
    \ifNoChapNum%
    \markboth{##1}{##1}%
    \fi%
    \afterpage{\global\NoChapNumfalse}%
  }
  \renewcommand\afterchapternum{}
  \renewcommand\afterchaptertitle{%
    \ifnum \c@secnumdepth>\m@ne%
    \ifNoChapNum\else\par\nobreak\vskip\afterchapskip\fi%
    \fi}
  \setlength\beforechapskip{15pt}
  \renewcommand\printchapternonum{\global\NoChapNumtrue}
  \renewcommand{\chaptitlefont}{\raggedleft\normalfont\Huge\bfseries}
}
\makeatother
\chapterstyle{EQ}
\begin{document}
\frontmatter
\chapter{Preface}

Some text at the beginning of a chapter. And we add a lot of text to
make sure that it spans more than one line.

\mainmatter

\chapter{A chapter title}
Some text at the beginning of a chapter. And we add a lot of text to
make sure that it spans more than one line.

\chapter*{A non-numbered chapter title}
Some text at the beginning of a chapter. And we add a lot of text to
make sure that it spans more than one line.

\end{document}
```

---

ii _____ **Preface**

> Some text at the beginning of a chapter. And we add a lot of text to make
> sure that it spans more than one line.

<div align="center">* * *</div>

# A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

<div align="center">∗ ∗ ∗</div>

# A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

<div align="center">∗ ∗ ∗</div>

Remember that the line you see is actually the header.

This next style is a modified version of a style requested on a danish forum.

```
\usepackage{xcolor,fix-cm}
\definecolor{numbercolor}{gray}{0.7}
\newif\ifchapternonum
\makechapterstyle{jenor}{
  \renewcommand\printchaptername{}
  \renewcommand\printchapternum{}
  \renewcommand\printchapternonum{\chapternonumtrue}
  \renewcommand\chaptitlefont{\fontfamily{pbk}\fontseries{db}%
    \fontshape{n}\fontsize{25}{35}\selectfont\raggedleft}
  \renewcommand\chapnumfont{\fontfamily{pbk}\fontseries{m}\fontshape{n}%
    \fontsize{1in}{0in}\selectfont\color{numbercolor}}
  \renewcommand\printchaptertitle[1]{%
    \noindent%
    \ifchapternonum%
    \begin{tabularx}{\textwidth}{X}%
    {\parbox[b]{\linewidth}{\chaptitlefont ##1}%
      \vphantom{\raisebox{-15pt}{\chapnumfont 1}}}
    \end{tabularx}%
    \else
    \begin{tabularx}{\textwidth}{Xl}
    {\parbox[b]{\linewidth}{\chaptitlefont ##1}}
    & \raisebox{-15pt}{\chapnumfont \thechapter}%
    \end{tabularx}%
    \fi
    \par\vskip2mm\hrule
  }
}
\chapterstyle{jenor}
```

# A chapter title 1

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

*** 

# A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

# Vincent Zoonekynd

Some time ago Vincent Zoonekynd published a long list of general chapter styles for LaTeX, see `http://zoonek.free.fr/LaTeX/LaTeX_samples_chapter/0.html`. In this section we implement several of these styles. Special thanks to Danie Els for the BlueBox style (aka VZ39).

The styles are named after Vincent Zoonekynd (VZ) and the number on the mentioned page.

――――――――― Source for the VZ14 style ―――――――――

```
\makeatletter
\newcommand\thickhrulefill{\leavevmode \leaders \hrule height 1ex \hfill \kern \z@}
\setlength\midchapskip{10pt}
\makechapterstyle{VZ14}{
  \renewcommand\chapternamenum{}
  \renewcommand\printchaptername{}
  \renewcommand\chapnamefont{\Large\scshape}
  \renewcommand\printchapternum{%
    \chapnamefont\null\thickhrulefill\quad
    \@chapapp\space\thechapter\quad\thickhrulefill}
  \renewcommand\printchapternonum{%
    \par\thickhrulefill\par\vskip\midchapskip
    \hrule\vskip\midchapskip
  }
  \renewcommand\chaptitlefont{\Huge\scshape\centering}
  \renewcommand\afterchapternum{%
    \par\nobreak\vskip\midchapskip\hrule\vskip\midchapskip}
  \renewcommand\afterchaptertitle{%
    \par\vskip\midchapskip\hrule\nobreak\vskip\afterchapskip}
}
\makeatother
\chapterstyle{VZ14}
```

# A CHAPTER TITLE

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

$$* * *$$

# A NON-NUMBERED CHAPTER TITLE

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

Variation over VZ15.

──────── Source for the VZ15b style ────────

```
\usepackage{pifont,graphicx}
\newcommand\mylleaf{\ding{'247}}
\newcommand\myrleaf{\reflectbox{\mylleaf}}
\newcommand\MyNumToName[1]{%
  \ifcase#1\relax % case 0
  \or First\or Second\or Third%
  \else Not implemented\fi}
\makeatletter
\setlength\midchapskip{10pt}
\makechapterstyle{VZ15b}{
  \renewcommand\chapternamenum{}
  \renewcommand\printchaptername{}
  \renewcommand\chapnamefont{\Large\scshape}
  \renewcommand\printchapternum{%
    \chapnamefont\null\hfill\mylleaf\quad
    \MyNumToName{\thechapter}\space\@chapapp\quad\myrleaf\hfill\null}
  \renewcommand\printchapternonum{%
    \par\hrule\vskip\midchapskip}
  \renewcommand\chaptitlefont{\Huge\scshape\centering}
  \renewcommand\afterchapternum{%
    \par\nobreak\vskip\midchapskip\hrule\vskip\midchapskip}
  \renewcommand\afterchaptertitle{%
    \par\vskip\midchapskip\hrule\nobreak\vskip\afterchapskip}
}
\makeatother
\chapterstyle{VZ15b}
```

# A CHAPTER TITLE

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

<div align="center">* * *</div>

# A NON-NUMBERED CHAPTER TITLE

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

Though I believe this style would look better without the lines.

Variation over VZ21. Note the use of two different tabulars depending upon the length of the title. Also note that we use the build-in booktabs rules, and note that the thickness of these rules can be individually adjusted.

—————— Source for the VZ21 style ——————

```
\usepackage{calc,fourier}
\usepackage[T1]{fontenc}
\makeatletter
\setlength\midchapskip{7pt}
\makechapterstyle{VZ21}{
  \renewcommand\chapnamefont{\Large\scshape}
  \renewcommand\chapnumfont{\Large\scshape\centering}
  \renewcommand\chaptitlefont{\huge\bfseries\centering}
  \renewcommand\printchaptertitle[1]{%
    \setlength\tabcolsep{7pt}% used as indentation on both sides
    \settowidth\@tempdimc{\chaptitlefont ##1}%
    \setlength\@tempdimc{\textwidth-\@tempdimc-2\tabcolsep}%
    \chaptitlefont
    \ifdim\@tempdimc > 0pt\relax% one line
    \begin{tabular}{c}
      \toprule  ##1\\ \bottomrule
    \end{tabular}
    \else% two+ lines
    \begin{tabular}{%
        >{\chaptitlefont\arraybackslash}p{\textwidth-2\tabcolsep}}
      \toprule ##1\\ \bottomrule
    \end{tabular}
    \fi
  }
}
\makeatother
\chapterstyle{VZ21}
```
———————————————————————————————————

CHAPTER 1

# A CHAPTER TITLE

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

<p align="center">* * *</p>

# A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

Next up is VZ23.

──────────── Source for the VZ23 style ────────────

```
\setlength\midchapskip{10pt}
\makechapterstyle{VZ23}{
  \renewcommand\chapternamenum{}
  \renewcommand\printchaptername{}
  \renewcommand\chapnumfont{\Huge\bfseries\centering}
  \renewcommand\chaptitlefont{\Huge\scshape\centering}
  \renewcommand\afterchapternum{%
    \par\nobreak\vskip\midchapskip\hrule\vskip\midchapskip}
  \renewcommand\printchapternonum{%
    \vphantom{\chapnumfont \thechapter}
    \par\nobreak\vskip\midchapskip\hrule\vskip\midchapskip}
}
\chapterstyle{VZ23}
```

<div style="border:1px solid">

# 1

## A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

<div align="center">* * *</div>

## A NON-NUMBERED CHAPTER TITLE

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

</div>

A variation over VZ34 (in the original the first cell in the tabular adjusts to the width of the chapter number, here it does not).

———— Source for the VZ34 style ————

```
\usepackage{calc}
\newif\ifNoChapNumber
\makeatletter
\makechapterstyle{VZ34}{
  \renewcommand\chapternamenum{}
  \renewcommand\printchaptername{}
  \renewcommand\printchapternum{}
  \renewcommand\chapnumfont{\Huge\bfseries}
  \renewcommand\chaptitlefont{\Huge\bfseries\raggedright}
  \renewcommand\printchaptertitle[1]{%
    \begin{tabular}{@{}p{1cm}|!{\quad}p{\textwidth-1cm-2em-4\tabcolsep }}
      \ifNoChapNumber\relax\else\chapnumfont \thechapter\fi
      & \chaptitlefont ##1
    \end{tabular}
    \NoChapNumberfalse
  }
  \renewcommand\printchapternonum{\NoChapNumbertrue}
}
\chapterstyle{VZ34}
```

# 1 | A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

<div align="center">* * *</div>

# A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

Variation over VZ39, contributed by Danie Els.

────────────────── Source for the BlueBox style ──────────────────

```
\usepackage{fourier} % or what ever
\usepackage[scaled=.92]{helvet}%. Sans serif - Helvetica
\usepackage{color,calc}
\newsavebox{\ChpNumBox}
\definecolor{ChapBlue}{rgb}{0.00,0.65,0.65}
\makeatletter
\newcommand*{\thickhrulefill}{%
  \leavevmode\leaders\hrule height 1\p@ \hfill \kern \z@}
\newcommand*\BuildChpNum[2]{%
  \begin{tabular}[t]{@{}c@{}}
    \makebox[0pt][c]{#1\strut}  \\[.5ex]
    \colorbox{ChapBlue}{%
      \rule[-10em]{0pt}{0pt}%
      \rule{1ex}{0pt}\color{black}#2\strut
      \rule{1ex}{0pt}}%
  \end{tabular}}
\makechapterstyle{BlueBox}{%
  \renewcommand{\chapnamefont}{\large\scshape}
  \renewcommand{\chapnumfont}{\Huge\bfseries}
  \renewcommand{\chaptitlefont}{\raggedright\Huge\bfseries}
  \setlength{\beforechapskip}{20pt}
  \setlength{\midchapskip}{26pt}
  \setlength{\afterchapskip}{40pt}
  \renewcommand{\printchaptername}{}
  \renewcommand{\chapternamenum}{}
  \renewcommand{\printchapternum}{%
    \sbox{\ChpNumBox}{%
      \BuildChpNum{\chapnamefont\@chapapp}%
      {\chapnumfont\thechapter}}}
  \renewcommand{\printchapternonum}{%
    \sbox{\ChpNumBox}{%
      \BuildChpNum{\chapnamefont\vphantom{\@chapapp}}%
      {\chapnumfont\hphantom{\thechapter}}}}
  \renewcommand{\afterchapternum}{}
  \renewcommand{\printchaptertitle}[1]{%
```

```
    \usebox{\ChpNumBox}\hfill
    \parbox[t]{\hsize-\wd\ChpNumBox-1em}{%
      \vspace{\midchapskip}%
      \thickhrulefill\par
      \chaptitlefont ##1\par}}%
}
\chapterstyle{BlueBox}
```

---

<div style="border:1px solid black; padding:1em;">

CHAPTER

**1**

## A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

<p align="center">* * *</p>

## A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

</div>

Style inspired by VZ43

───────────── Source for the VZ43 style ─────────────

```
\usepackage{calc,color}
\newif\ifNoChapNumber
\newcommand\Vlines{%
  \def\VL{\rule[-2cm]{1pt}{5cm}\hspace{1mm}\relax}
  \VL\VL\VL\VL\VL\VL\VL}
\makeatletter
\setlength\midchapskip{0pt}
```

```
\makechapterstyle{VZ43}{
  \renewcommand\chapternamenum{}
  \renewcommand\printchaptername{}
  \renewcommand\printchapternum{}
  \renewcommand\chapnumfont{\Huge\bfseries\centering}
  \renewcommand\chaptitlefont{\Huge\bfseries\raggedright}
  \renewcommand\printchaptertitle[1]{%
    \Vlines\hspace*{-2em}%
    \begin{tabular}{@{}p{1cm} p{\textwidth-3cm}}%
      \ifNoChapNumber\relax\else%
      \colorbox{black}{\color{white}%
        \makebox[.8cm]{\chapnumfont\strut \thechapter}}
      \fi
      & \chaptitlefont ##1
    \end{tabular}
    \NoChapNumberfalse
  }
  \renewcommand\printchapternonum{\NoChapNumbertrue}
}
\makeatother
\chapterstyle{VZ43}
```
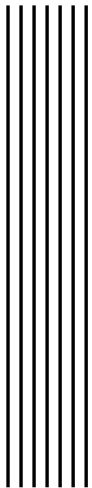
# 1 A chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

<p align="center">* * *</p>

# A non-numbered chapter title

Some text at the beginning of a chapter. And we add a lot of text to make sure that it spans more than one line.

# Bibliography

[1] Peter Wilson, *The Memoir Class for Configurable Typesetting – User Guide*, 2005.

[2] Peter Wilson, *ADDENDUM – The Memoir Class for Configurable Typesetting – User Guide*, 2006. Latest version, released in December 2006.

[3] Vincent Zoonekynd. On-line list of different chapter styles for LaTeX. Available at `http://zoonek.free.fr/LaTeX/LaTeX_samples_chapter/0.html`.