uioletter — a package for creating official letters

Program source code and documentation

Dag Langmyhr
6th September 2016
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The University of Oslo has defined a new graphics standard\footnote{Complete description (in Norwegian) of the new graphics standard can be found at http://www.uio.no/om/profil.} for its bicentennial celebrations in September 2011. This new standard includes official University letters, and the actual definition of such letters can be seen in Figure 1 on the following page. This package implements this official definition in a \LaTeX{} document class, but only for a subset of the university departments; in particular, the departments where I believe \LaTeX{} is frequently used.

Program documentation system

This program was documented using the \texttt{web0} package which is based on Donald Knuth’s ideas of literate programming. For more information on the \texttt{web0} implementation, see http://dag.at.ifi.uio.no/public/doc/web0.pdf.

1 User guide for the uioletter package

The \texttt{uioletter} is used almost like the standard \LaTeX{} document classes. The main differences are:

- The letter is placed in a \begin{letter}\ldots\end{letter} environment; the name of the recipient and the address are given as parameters to this environment.

- The letter (inside the letter environment) should always start with a \opening{} command and end with a \closing{} command.

- The standard sectioning commands like \chapter{} and \section{} may not be used.

For a simple example, see the \LaTeX{} code in Figure 2 on page 5 which produces the result shown in Figure 3 on page 6.

1.1 Class options

The document class recognises these language options:

\texttt{norsk} is used for Norwegian \textit{bokmål}.

\texttt{nynorsk} is used when the letter is in Norwegian \textit{nynorsk}.

\texttt{UKenglish} (or just \textit{english}) specifies that the letter is written in British English.

\texttt{USenglish} (or \textit{american}) indicates that American English is used.

(This implies that the familiar options \texttt{a4paper}, \texttt{12pt}, \texttt{twocolumn} etc are not recognized.)

In addition, the following departments are known:
Figure 1: The official definition for letters from the University of Oslo (shown here in scale 1:2)
geo is the Department of Geosciences.
ifi is the Department of Informatics.
math is the Mathematics department.
usit is the University’s Center for Information Technology.

1.2 Letter specifications
The following commands are used to specify additional information:
\closing is used to end the letter; the parameter specifies which words to use for farewell. This command should be present in letters.
\countersign gives the name of the person countersigning the letter.
\countersigntitle can be used to give the job title of the person countersigning.
\date may be used to specify a date; the default is today’s date.
\execaddr is used to indicate the address (whether building, street address or e-mail address) of the executive.
\executive is employed to tell who will handle the case (if other than the author of the letter).
\mytitle supplies the author’s job title.
\opening is used to start the letter; the parameter is the salutation. This command should be in every letter.
\ouraddr is used for the address of the writer’s department.
\ourcity may be used to specify a city (if other than Oslo).
Figure 3: Official letter produced by the \LaTeX{} code in Figure 2 on the previous page using the uioletter document class; the letter is shown in half scale

\texttt{\textbackslash ouremail} tells the e-mail address of the writer or his or her department.

\texttt{\textbackslash ourfax} gives the writer’s fax number.

\texttt{\textbackslash ourphone} specifies the phone number of the writer or his or her department.

\texttt{\textbackslash ourref} provides the writer’s reference number for the case.

\texttt{\textbackslash oursect} is used for the writer’s department section (if any).

\texttt{\textbackslash ourweb} indicates the www address of the writer’s department.

\texttt{\textbackslash ourzip} may be used to change the postal zip number (in case the writer is not at the Department of Informatics).

\texttt{\textbackslash signature} provides the author’s name.

\texttt{\textbackslash yourref} is for specifying the recipient’s reference number for the case (if any).
1.3 Other specifications

The recipient of the letter and his or her address is given as a parameter to the \texttt{letter} environment. The name and the address are separated by a \texttt{	extbackslash \textbackslash}, as are the various lines of the address.

1.4 A complete demonstration

In Figure 4 on the following page is shown some \LaTeX\ code using \textit{all} available commands; the result can be seen in Figure 5 on page 9.
\documentclass[norsk]{uioletter}
\usepackage[utf8]{inputenc}
\usepackage[T1]{fontenc,url} \urlstyle{sf}
\usepackage{babel,textcomp}

\signature{Dag Langmyhr}
\mytitle{universitetslektor}
\date{Medio juli 2010}
\ourref{Info 1/2010}
\yourref{2010-99-1}
\ouremail{dag@ifi.uio.no}
\oursect{OMS-gruppen}
\ourweb{www.ifi.uio.no}
\ouraddr{Ole-Johan Dahls hus}
\ourcity{Tigerstaden}
\ourzip{++++}
\ourphone{(228) 524 50}
\ourfax{(228) 524 10}
\countersign{En Medarbeider}
\countersigntitle{parafreringsperson}
\executive{En Saksbehandler}
\execaddr{konsulent@ifi.uio.no}

\begin{document}
\begin{letter}{Alle \LaTeX-brukere\ Norwegian University of Oslo\ Oslo\ Norway}
\opening{Kjære bruker}
Dette er et brev som demonstrerer \LaTeX-klassen \texttt{uioletter}
som kan benyttes for å skrive offisielle brev fra ansatte ved
Universitetet i Oslo. På nettsiden \url{http://www.ifi.uio.no/it/latex.html} finnes en link til
dokumentasjon for denne dokumentklassen (og diverse andre nyttige
\LaTeX{}-klasser, -pakker og -dokumentasjon).

I 2010 innførte Universitetet en ny grafisk profil. Den omfatter
også offisielle brev, og \textsf{uioletter} følger denne nye
standarden. Ytterligere informasjon om den nye grafiske profilen
finnes på nettsiden \url{http://www.uio.no/om/om/profil/}.

\closing{Med vennlig hilsen}
\cc{Alle interesserte}
\encl{Ingenting}
\end{letter}
\end{document}

Figure 4: \LaTeX{} code demonstrating all possible options; the result is shown in Figure 5 on
the next page
Kjære bruker

Dette er et brev som demonstrerer \LaTeX-klassen `uioletter` som kan benyttes for å skrive offisielle brev fra ansatte ved Universitetet i Oslo. På nettsiden http://www.ifi.uio.no/it/latex.html finnes en link til dokumentasjon for denne dokumentklassen (og diverse andre nyttige \LaTeX-klasser, -pakker og -dokumentasjoner).


Med vennlig hilsen

Dag Langmyhr
universitetslektor
En Medarbeider
En Saksbehandler
konsulent@ifi.uio.no

Kopi sendt: Alle interesserte
Vedlegg: Ingen

Figure 5: Official letter produced by the \LaTeX code in Figure 4 on the preceding page; the letter is shown in half scale
2 Implementation

All \LaTeX class definitions consist of a standard part followed by code specific to that class.

\#1 (\uioletter) \equiv
\begin{verbatim}
\NeedsTeXFormat{LaTeX2e}[1994/12/01] \% Any version, really.
\NeedsTeXFormat{LaTeX2e}[1994/12/01] \% Any version, really.
\endinput
\end{verbatim}

(This code is not used.)

The \uioletter document class requires \LaTeX2ε, but not any recent version.

Note that all internal names start with \"\uioletter@...\" to avoid unintentional confusion with names in other packages.

2.1 Standard information

Every \LaTeX2ε document class should contain some standard information.

2.1.1 Identification

All \LaTeX2ε document classes identify themselves by their name, date and version number.

\#2 (standard document class information) \equiv
\begin{verbatim}
\ProvidesPackage{uioletter}[2016/09/06 v3.06 UiO document class]
\end{verbatim}

(This code is extended in \#2 (p.10). It is used in \#1 (p.10).)

2.1.2 Initial code

A few definitions may be necessary before the class can handle the options. Currently, there are none.

\#2a (standard document class information \#2 (p.10)) + \equiv
\begin{verbatim}
\newcommand{\uioletter@date@name}{Dato}%
\def \uioletter@ouraddr@name {Postboks 1080 Blindern}%
\def \uioletter@email@name {E-post}%
\def \uioletter@ourref@name {Vå r ref}%
\def \uioletter@ourzip@name {0316}%
\def \uioletter@yourref@name {Deres ref}%
\end{verbatim}

(This code is extended in \#2a (p.11).)

2.2 Language adaption

A few words and phrases are different in different languages.

2.2.1 Norwegian bokmål

\#3 (initial definitions) \equiv
\begin{verbatim}
\newcommand{\uioletter@bokmaal}{%}
\def \uioletter@date@name {Dato}%
\def \uioletter@ouraddr@name {Postboks 1080 Blindern}%
\def \uioletter@email@name {E-post}%
\def \uioletter@ourref@name {Vår ref}%
\def \uioletter@ourzip@name {0316}%
\end{verbatim}

(This code is extended in \#3a (p.10). It is used in \#2a (p.10).)

This is the default:

\#3a (initial definitions \#3 (p.10)) + \equiv
\begin{verbatim}
\uioletter@bokmaal
\end{verbatim}

(This code is extended in \#3b (p.11)).
2.2.2 Norwegian nynorsk

Nynorsk is identical to Bokmål for this use.

\begin{verbatim}
\newcommand{\uioletter@nynorsk}{\uioletter@bokmaal}
\end{verbatim}
(This code is extended in \#3, (p.11).)

2.2.3 English

There is no difference between British and American English in these words.

\begin{verbatim}
\newcommand{\uioletter@english}{\%
\def \uioletter@date@name {Date}\%
\def \uioletter@ouraddr@name {PO box 1080 Blindern}\%
\def \uioletter@email@name {E-mail}\%
\def \uioletter@fax@name {Fax}\%
\def \uioletter@phone@name {Phone}\%
\def \uioletter@ourref@name {Our ref}\%
\def \uioletter@ourzip@name {NO-0316}\%
\def \uioletter@yourref@name {Your ref}}
\end{verbatim}

2.3 Class options

The uioletter class recognises some options.

\begin{verbatim}
\ProcessOptions* \relax
\end{verbatim}
(This code is extended in \#2b (p.11).)

2.3.1 Class options

These departments/units are known:

\begin{verbatim}
\DeclareOption{geo}{\def \uioletter@dept{geo}\%
\def \uioletter@dept@bm{Institutt for geofag}\%
\def \uioletter@dept@nn{Institutt for geofag}\%
\def \uioletter@dept@eng{Department of Geosciences}\%
\DeclareOption{ifi}{\def \uioletter@dept{ifi}\%
\def \uioletter@dept@bm{Institutt for informatikk}\%
\def \uioletter@dept@nn{Institutt for informatikk}\%
\def \uioletter@dept@eng{Department of Informatics}\%
\DeclareOption{math}{\def \uioletter@dept{mat}\%
\def \uioletter@dept@bm{Matematisk institutt}\%
\def \uioletter@dept@nn{Matematisk institutt}\%
\def \uioletter@dept@eng{Department of Mathematics}\%
\DeclareOption{usit}{\def \uioletter@dept{usit}\%
\def \uioletter@dept@bm{Universitetets senter for informasjonsteknologi}\%
\def \uioletter@dept@nn{Universitetets senter for informasjonsteknologi}\%
\def \uioletter@dept@eng{University Center for Information Technology}\%
\end{verbatim}
(This code is extended in \#4a (p.11). It is used in \#2b (p.11).)

In addition, the following language options are recognised:

\begin{verbatim}
\DeclareOption{american}{\ExecuteOptions{USenglish}}
\DeclareOption{english}{\ExecuteOptions{UKenglish}}
\DeclareOption{norsk}{\uioletter@bokmaal}
\end{verbatim}
In this class, Norwegian is the default language.

\PassOptionsToPackage{norsk}{babel}
\DeclareOption{nyenorsk}{\uioletter@nyenorsk}
\PassOptionsToPackage{nyenorsk}{babel}
\DeclareOption{UKenglish}{\uioletter@english}
\PassOptionsToPackage{UKenglish}{babel}
\DeclareOption{USenglish}{\uioletter@english}
\PassOptionsToPackage{USenglish}{babel}

(This code is extended in #4b (p.12).)

Ifi is the default department.

\PassOptionsToPackage{ifi}{babel}
\ExecuteOptions{ifi}

(This code is extended in #4d (p.12).)

2.3.2 Ignored options

A few common options are silently ignored.

\PassOptionsToPackage{a4paper}{letter}

(This code is extended in #4e (p.12).)

2.3.3 Other options

No other options are legal.

\PassOptionsToPackage{a4paper}{letter}
\DeclareOption*{%
\ClassWarning{uioletter}{Option \CurrentOption is not recognised}}

2.4 The base class

The uioletter document class is an extension of the standard letter class using A4 paper size and 11 pt font size.

\LoadClass[a4paper,11pt]{letter}

2.5 Required packages

Some support packages are needed.

2.5.1 Different languages

Language issues in \LaTeX are handled by the babel package.

\RequirePackage{babel}

(This code is extended in #5a (p.13). It is used in #2c (p.12).)
2.5.2 Calculations

To make size calculations easier to read, the calc package is very useful.

\begin{verbatim}
\#5_a \{load packages \#5(p.12)\} + \equiv
\hspace{1em} \texttt{\textbackslash RequirePackage\{calc\}}
\end{verbatim}
(This code is extended in \#5_b (p.13).)

2.5.3 Graphics

To insert graphics (like logos) we need the graphicx package.

\begin{verbatim}
\#5_b \{load packages \#5(p.12)\} + \equiv
\hspace{1em} \texttt{\textbackslash RequirePackage\{graphicx\}}
\end{verbatim}
(This code is extended in \#5_c (p.13).)

2.5.4 Tables

The tabularx package helps produce better-looking tables.

\begin{verbatim}
\#5_c \{load packages \#5(p.12)\} + \equiv
\hspace{1em} \texttt{\textbackslash RequirePackage\{tabularx\}}
\end{verbatim}
(This code is extended in \#5_d (p.13).)

2.5.5 Placing fixed elements

The package textpos makes it possible to place anything at a specified position on the page.

\begin{verbatim}
\#5_d \{load packages \#5(p.12)\} + \equiv
\hspace{1em} \texttt{\textbackslash RequirePackage\{absolute\}\{textpos\}}
\end{verbatim}
(This code is extended in \#5_e (p.13).)

2.5.6 Typeface

The official typeface for letters is Georgia.

\begin{verbatim}
\#5_e \{load packages \#5(p.12)\} + \equiv
\hspace{1em} \texttt{\textbackslash RequirePackage\{uiofont\}}
\end{verbatim}

2.6 User interface

The following new commands are defined:

- \texttt{\textbackslash countersign} gives the name of the countersigner (if any).

\begin{verbatim}
\#6 \{uiolletter definitions \#6(p.13)\} + \equiv
\hspace{1em} \texttt{\textbackslash newcommand\{countersign\}[1]\{\textbackslash def \textbackslash uiolletter\textbackslash countersign \{#1\}\}}
\hspace{1em} \texttt{\textbackslash def \uiolletter\textbackslash countersign \{}
\end{verbatim}
(This code is extended in \#6_a (p.13). It is used in \#1 (p.10).)

- \texttt{\textbackslash countersigntitle} gives the title of the person countersigning (if any).

\begin{verbatim}
\#6_a \{uiolletter definitions \#6(p.13)\} + \equiv
\hspace{1em} \texttt{\textbackslash newcommand\{countersigntitle\}[1]\{\textbackslash def \textbackslash uiolletter\textbackslash countertitle \{#1\}\}}
\hspace{1em} \texttt{\textbackslash def \uiolletter\textbackslash countertitle \{}
\end{verbatim}
(This code is extended in \#6_b (p.14).)
• `\executive` indicates the name of the executive officer handling this case.

```latex
\newcommand{\executive}[1]{\def \uioletter@executive {#1}}
def \uioletter@executive {}
```

(This code is extended in \#6c (p.14).)

• `\execaddr` indicates the address (e-mail address, phone or other) of the executive officer handling this case.

```latex
\newcommand{\execaddr}[1]{\def \uioletter@execaddr {#1}}
def \uioletter@execaddr {}
```

(This code is extended in \#6d (p.14).)

• `\mytitle` gives the writer’s job title; the default is to leave it empty.

```latex
\newcommand{\mytitle}[1]{\def \uioletter@mytitle {#1}}
def \uioletter@mytitle {}
```

(This code is extended in \#6e (p.14).)

• `\ouraddr` gives the writer’s post address; the default is the one for the Department of Informatics: Postboks 1080 Blindern/PO box 1080 Blindern.

```latex
\newcommand{\ouraddr}[1]{\def \uioletter@ouraddr {\uioletter@ouraddr@name}}
def \uioletter@ouraddr {Oslo}
```

(This code is extended in \#6f (p.14).)

• `\ourcity` gives the writer’s city; the default is Oslo.

```latex
\newcommand{\ourcity}[1]{\def \uioletter@ourcity {#1}}
def \uioletter@ourcity {Oslo}
```

(This code is extended in \#6g (p.14).)

• `\ouremail` gives the writer’s e-mail address;\(^2\) the default is to leave this empty.

```latex
\newcommand{\ouremail}[1]{\def \uioletter@ouremail {#1}}
def \uioletter@ouremail {}
```

(This code is extended in \#6h (p.14).)

• `\ourfax` gives the writer’s fax number; the default is to leave this empty.

```latex
\newcommand{\ourfax}[1]{\def \uioletter@ourfax {#1}}
def \uioletter@ourfax {}
```

(This code is extended in \#6i (p.15).)

\(^2\)The specifications are unclear whether this is the sender’s or the department’s e-mail address.
• \ourphone gives the phone number of the writer’s department; the default is to leave it empty.

\begin{verbatim}
\def \ourphone {#1}
\end{verbatim}

(This code is extended in #6(p.15).)

• \ourref specifies the sender’s reference number.

\begin{verbatim}
\def \ourref {#1}
\end{verbatim}

(This code is extended in #6(p.15).)

• \oursect gives the writer’s section; the default is to leave this empty.

\begin{verbatim}
\def \oursect {#1}
\end{verbatim}

(This code is extended in #6(p.15).)

• \ourweb gives the web address of the sender’s unit the default is to use the University’s web address.

\begin{verbatim}
\def \ourweb {www.uio.no}
\end{verbatim}

(This code is extended in #6(p.15).)

• \ourzip gives the writer’s zip code in the postal address; the default is the one for the Department of Informatics: 0316/NO-0316.

\begin{verbatim}
\def \ourzip {#1}
\end{verbatim}

(This code is extended in #6(p.15).)

• \yourref specifies the recipient’s reference number.

\begin{verbatim}
\def \yourref {#1}
\end{verbatim}

(This code is extended in #6(p.16).)

3 Letter setup

Figure 1 on page 4 specifies what an official letter from the University of Oslo should look like.
3.1 Fixed elements

Since all letters are created in a letter environment, the various fixed elements are best handled by attaching them to this environment.

\begin{verbatim}
\let \uioletter@orig@letter = \letter
\renewcommand{\letter}[1]{% 
  \uioletter@orig@letter{#1} \uioletter@addFixedElements

{first page style #14(p.19)}
{specify text layout #13(p.18)}
\}
\end{verbatim}

(This code is extended in #6_p(p.16).)

The \uioletter@addFixedElements macro adds all the fixed elements on the front page using the textblock environment from the textpos package (see Section 2.5.5 on page 13).

\begin{verbatim}
\newcommand{\uioletter@addFixedElements}{% 
  \place department name #7(p.16)
  \add recipient #8(p.16)
  \add date #9(p.16)
  \add colon #10(p.17)
  \add university seal #11(p.17)
  \add sender information #12(p.18)}
\end{verbatim}

(This code is extended in #6_p(p.17).)

3.1.1 The name of the department

This name is, together with the faculty name, defined to be 9.3 mm high and goes in the top left corner, 12 mm from the top and 20 mm from the left edge.

\begin{verbatim}
\begin{textblock*}{15cm}(20mm,12mm)
\includegraphics[height=9.3mm]{\uioletter@dept-mn-navn-\uioletter@suffix}
\end{textblock*}
\end{verbatim}

(This code is used in #6_p(p.16).)

3.1.2 The recipient

The name and address of the recipient should be placed exactly 46 mm from the top and 20 mm from the left edge. It should use 9 pt type size.

\begin{verbatim}
\begin{textblock*}{17cm}(20mm,46mm)
\footnotesize\toname\toaddress\null
\end{textblock*}
\end{verbatim}

(This code is used in #6_p(p.16).)

(The \null avoids error messages in case the address is empty.)

3.1.3 Date and reference numbers

The date and references (if any) go beneath the recipient. (Even though it has not been specified, I have decided to tabulate the entries; I think it looks a lot better that way.)

\begin{verbatim}
\begin{textblock*}{17cm}(20mm,72mm)
\footnotesize
\end{textblock*}
\end{verbatim}

\footnotesize

\begin{footnotesize}
\end{footnotesize}

3My guess is that a fixed position makes it easy to used envelopes with a window.
As you can see, we drop the prefix for missing items. Testing for an empty date, however, is more complicated and involves testing for the use of particular packages that adapt the \today command.

\begin{verbatim}
\ifthenelse{\boolean{uioletter@date}}{}
\makebox[45pt][l]{\uioletter@date@name:}\uioletter@date@cmd
\end{verbatim}

(This code is used in \#6\textsubscript{p}.p.16.)

As you can see, we drop the prefix for missing items. Testing for an empty date, however, is more complicated and involves testing for the use of particular packages that adapt the \today command.

\begin{verbatim}
\ifthenelse{\equal{\uioletter@yourref}{}}{}
\makebox[45pt][l]{\uioletter@yourref@name:}\uioletter@yourref
\ifthenelse{\equal{\uioletter@ourref}{}}{}
\makebox[45pt][l]{\uioletter@ourref@name:}\uioletter@ourref
\end{verbatim}

\begin{verbatim}
\newboolean{uioletter@date} \setboolean{uioletter@date}{false}
\def \uioletter@date@cmd {\@date}
\AtBeginDocument{
\ifthenelse{\isundefined{\iso@printday}}%% Package isodate loaded?
{ }
\setboolean{uioletter@date}{true}
\def \uioletter@date@cmd {\today}
\ifthenelse{\equal{\@date}{}}%% \date{} ?
{ }
\setboolean{uioletter@date}{true}
}
\end{verbatim}

(This code is extended in \#6\textsubscript{p}.p.18.)

\section*{3.1.4 A transparent colon}

One distinctive part of the profile is a big transparent colon where each dot is 19 mm tall; it should go behind the text and be $(2 \times 19 + 4.6 =) 42.6$ mm high, positioned 105 mm from the top and 2.5 mm from the left margin.\footnote{The distance from the left margin is not explicitly specified but according to my measurements.}

\begin{verbatim}
\begin{textblock*}{20mm}(22.5mm,105mm)
\includegraphics{uio-bg-colon}
\end{textblock*}
\end{verbatim}

(This code is used in \#6\textsubscript{p}.p.16.)

\section*{3.1.5 The University seal}

The seal goes in the bottom left corner, 266 mm from the top. It should be 19 mm tall and the center should be 33.5 mm from the left edge. (In other words, the seal should be positioned $(33.5 - 19/2 =) 24$ mm from the left edge.)

\begin{verbatim}
\begin{textblock*}{19mm}(24mm,266mm)
\includegraphics[height=19mm]{uio-segl}
\end{textblock*}
\end{verbatim}

(This code is used in \#6\textsubscript{p}.p.16.)

\section*{3.1.6 Sender information}

Beside the seal (at 62.5 mm from the left edge and 271 mm from the top) comes various information about the sender.\footnote{The font size for this information is not specified, but I guess 7 pt will be OK.}

\begin{verbatim}
\begin{textblock*}{20mm}(20.5mm,271mm)
\includegraphics{uio-seg}
\end{textblock*}
\end{verbatim}
3.2 Text layout

The text layout is defined partly in the text preamble (i.e., before \begin{document}) and partly in the letter environment.

3.2.1 Margins

Left and right margin are defined to be 20 mm.

The vertical margins are not defined, but my estimates are 46 mm top margin and \((297 - 266) + (105 - 99) = 37\) mm bottom margin.

On the first page of a letter, we must add some extra vertical space so that the title line is 99 mm from the top of the page.

The text lines should have a baseline distance of 5 mm\(^6\) and be ragged right.

---

\(^6\) Even though it is not specified (and probably never even considered 😐) I have added a 1 pt stretch and shrink.
The paragraphs should be unindented but be separated by a blank line.

\begin{verbatim}
\raggedright
(This code is extended in \#13a (p.19).)
\end{verbatim}

3.3 Page styles

The \uioletter class does not define any new page styles. The front page of a letter uses the empty style and any subsequent pages use the standard plain style with just a page number on the bottom of the page.\footnote{The University's specifications say nothing about other pages than the first one, so using the plain style is my decision.}

\begin{verbatim}
#13b (specify text layout \#13 (p.18)) + \equiv
\setlength{\parindent}{0pt}\
\setlength{\parskip}{5mm plus 2pt minus 2pt}
\end{verbatim}

3.4 The opening

The \opening command is used to produce the greeting and must be completely redefined.

\begin{verbatim}
#6 (uioletter definitions \#6 (p.13)) + \equiv
\renewcommand{\opening}{1}%
\textbf{#1}\par\vspace{1pt}\vspace{-\baselineskip}
\end{verbatim}

\begin{verbatim}
#14 (first page style) \equiv
\thispagestyle{empty}
(This code is used in \#6a (p.16).)
\end{verbatim}

3.5 The closing

The \closing command is used for the signature. The definition uses a minipage to inhibit page breaks.

\begin{verbatim}
#6u (uioletter definitions \#6 (p.13)) + \equiv
\renewcommand{\closing}{1}{\par\vspace{1\baselineskip}}
\begin{minipage}{\textwidth}
#1\par
\vspace{3\baselineskip}
\mbox{}\fromsig\mbox{}\uioletter@mytitle\(\text{add countersignature} \#15 (p.19)\)
(\text{add executive} \#16 (p.20))
\end{minipage}\par
\end{verbatim}

3.5.1 Countersignatures

An additional person may countersign the document. This is indicated by flushing this signature $105 - 20 = 85$ mm right.

\begin{verbatim}
#15 (add countersignature) \equiv
\leavevmode \hspace*{85mm}\
\begin{minipage}{85mm}
\mbox{\text{add countersignature} \#15 (p.19)}
\end{minipage}\%\end{verbatim}
3.5.2 Add executive officer

If an executive officer has been assigned, his or her name must be entered.

\begin{verbatim}
\mbox{}
\ifthenelse{\equal{\uioletter@countertitle}{}}{}
{\uioletter@countertitle}
\end{minipage}\par
\begin{verbatim}(This code is used in \#6, (p.19).)
\end{verbatim}
\end{verbatim}

3.5.3 Additions

The user may specify copies and enclosures using the \texttt{\cc} and \texttt{\encl} commands, respectively. These follow the signature and should be formatted slightly differently.

\begin{verbatim}
\begin{verbatim}
\mbox{}
\ifthenelse{\equal{\uioletter@executive}{}}{}
{\par \vspace*{\parskip} \mbox{\uioletter@executive}}
\ifthenelse{\equal{\uioletter@execaddr}{}}{}
{\par \emph{\uioletter@execaddr}}
\end{verbatim}
\end{verbatim}
\begin{verbatim}(This code is used in \#6, (p.19).)
\end{verbatim}

\begin{verbatim}
\vspace{\parskip}
\setlength{\parskip}{0pt}
\end{verbatim}
\begin{verbatim}(This code is used in \#6, (p.19).)
\end{verbatim}
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