

moderncv User Guide

Package v2.3.1

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Abstract

The `moderncv` package provides a document class for typesetting modern curriculum vitæ and cover letters in various styles. Five predefined styles are available, each of which can be adjusted through various options for headings, footers and colors. It is fairly customizable, allowing the user to adjust the look and feel of each style to their liking. Several macros allow the user to add content to the CV and format it in a consistent way. A letter of motivation consistent with the style is part of the template as well.

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1 Getting started

1.1 How to read this manual

This manual is organized as follows. The current section explains on how to get started with the `moderncv` package, i.e. how to install required packages. Section 2 explains how to work with the `moderncv` template file step by step. Section 3 details the customizations that the user can make: the different styles, their options, colors and tips and tricks. Section 4 details the packages that `moderncv` uses, known problems and possible solutions to those problems.

1.2 Installation instructions

If the `moderncv` package does not ship with your \LaTeX distribution or if the installed version is too old, grab the `moderncv` code from CTAN or GitHub:

<https://ctan.org/pkg/moderncv>
<https://github.com/moderncv/moderncv>

Note. Depending on your \LaTeX distribution, you may have to install some additional packages. Section 4.2 lists all the packages that `moderncv` requires to be installed on your system.

2 The `moderncv` template step by step

This section is a quick reference to the `moderncv` package and should contain enough information to typeset a first working CV. The easiest way to get started with `moderncv` is to use the template that comes with the package. If `moderncv` is part of your \LaTeX distribution, search for the folder `moderncv` on your system, which should contain all the files for the package. In this folder, there should be a file called `template.tex`. If you downloaded the package from GitHub or CTAN, look for `template.tex` in the folder of the newly downloaded (and possibly extracted) package.

Note. If you downloaded `moderncv` from GitHub or CTAN and moved `template.tex` to another folder, make sure to adjust the `TEXINPUTS` variable to find the newly downloaded package. Otherwise, either the package version provided by your \LaTeX distribution gets used or \LaTeX throws an error if there is no other version installed.

Test your setup by compiling `template.tex` and looking at the result.

Note. The `moderncv` package should compile with `pdflatex`, `lualatex` and `xelatex`. However, not all icons are available when using `pdflatex`, so using either `lualatex` or `xelatex` is *highly recommended*.

2.1 Basic setup

A document using the `moderncv` document class is set up like any other document class. We will go through the template step by step.

Configuring document class options

The `moderncv` document class is loaded as per usual, by

```
\documentclass[<options>]{moderncv}
```

where at most one value for each option can be passed to the document class:









paper: a4paper (default), a5paper, b5paper, letterpaper, legalpaper, executivepaper, landscape
font family: sans, roman
font size: 10pt, 11pt (default), 12pt
draft/final: draft, final (default)

Choosing a moderncv style and color

Choose a `moderncv` style and color by adjusting the commands

```
\moderncvstyle{<style>}  
\moderncvcolor{<color>}
```

As explained in `template.tex`, the possible values are

style: casual (default), classic, banking, oldstyle, fancy
color: black , blue  (default), burgundy , green , grey , orange , purple , red 

Note. Some of the styles take additional options to fine-tune their appearance. To keep this overview short, these options will be described in section 3.1.

Font family and page numbering

The default font family is set by the line `\renewcommand{\familydefault}{\sfdefault}` in `template.tex`. Use `\sfdefault` for the default sans-serif font, `\rmdefault` for the default roman font, and likewise for any \TeX font name. The general syntax is

```
\renewcommand{\familydefault}{<fontfamily>}  
% \nopagenumbers{}
```

Uncommenting `%\nopagenumbers{}` suppresses automatic page numbering for CVs longer than one page.

Adjusting input encoding

If you are not using `xelatex` or `lualatex`, which both use `utf8` encoding by default, uncomment the `\usepackage[utf8]{inputenc}` import and change the encoding as needed.

2.1.1 Language-specific setup

The `babel` package can be loaded in the preamble of your CV.

Note. `moderncv` doesn't work with `babel` in Spanish (see this [GitHub issue](#)).

For CJK users, uncomment the `\usepackage{CJKutf8}` import.

2.2 Personal data

Edit the personal data section to reflect your personal information. This data will appear in the header of the first page of the CV and/or in the footer of every page, as well as on the cover letter. Most of the commands are optional, so try out what you like and see what you need.

`\name` A command for your name. Takes the given name and surname as arguments.

```
\name{<given name>}{<surname>}
```

`\title` A command for a document title. Could be used for a generic CV title, job title, etc.

```
\title{<title>}
```

`\born` A command for a birth date.

```
\born{<birth date>}
```

`\address` A command for a three-lined street address.

```
\address{<street address>}{<city and postcode>}{<country>}
```

`\phone` A command for a phone number. Takes the phone type as an optional argument.

```
\phone[<type>]{<phone number>}
```

The allowed values for <type> are fax, fixed and mobile.

`\email` A command for an email address.

```
\email{<email address>}
```

`\homepage` A command for a personal website.

```
\homepage{<web address>}
```

`\social` A command for a social media account. Takes the platform as an optional argument.

```
\social[<platform>]{<username or handle>}
```

The following values are supported for <platform>:

- battlenet
- bitbucket
- codeberg
- discord
- github
- gitlab
- googlescholar
- instagram
- linkedin
- mastodon
- matrix
- orcid
- playstation
- researcherid
- researchgate
- signal
- skype
- soundcloud
- stackoverflow
- steam
- telegram
- tiktok
- twitch
- twitter
- whatsapp
- xbox
- xing
- youtube

`\extrainfo` A command for any extra information.

```
\extrainfo{<extra information>}
```

`\photo` A command for a photo. Takes the image file name as a required argument. Takes the height of the photo and the thickness of the photo frame as optional arguments.

```
\photo[<photo height>][<frame thickness>]{<photo file name>}
```

`\quote` A command for a quote.

```
\quote{<quote>}
```

[TODO: explain adding pictures]

[TODO: Add note about how to handle long names and long URLs. Is this handled correctly?]

Bibliography. In case BibTeX is used, the bibliography settings are adjusted in the lines

```
% to show numerical labels in the bibliography (default is to show
no labels)
% \renewcommand*{\bibliographyitemlabel}{[\arabic{enumiv}]}
% \renewcommand{\refname}{Articles}

% bibliography with mutiple entries
% \usepackage{multibib}
% \newcites{book, misc}{{Books}, {Others}}
```

By default, no labels are shown for bibliography entries. Uncommenting the line `%\renewcommand*{\bibliographyitemlabel}{[\arabic{enumiv}]}` allows one to fine-tune the labels. Uncommenting the line `%\renewcommand{\refname}{Articles}` allows one to redefine the bibliography heading string “Publications” that is shown by default. Finally, adjustments using the `multibib` package can be done in the last two lines shown here.

Note. BibLaTeX is currently not supported.

2.3 Modifying CV content

2.3.1 Structuring the CV

As with any other document style, the CV can be structured into sections and subsections using `\section` and `\subsection`.

The `moderncv` package provides some macros to add content to your CV. The easiest way to understand their intended use is to look at how they’re used in the template. Nonetheless, we list the macros here along with a short description of their intended use.

2.3.2 General macros

`\cvitem` A flexible command for a single CV entry. Takes the descriptor and body text as required arguments. Can be used to list job experiences and similar.

```
\cvitem{<descriptor>}{<body>}
```

`\cvdoubleitem` A two-column variation of `\cvitem`. Takes four required arguments: the descriptor and body text of the first column and the descriptor and body text of the second column. Can be used to enter skills, such as computer skills or language skills, in a two-column fashion.

```
\cvdoubleitem{<descriptor 1>}{<body 1>}{<descriptor 2>}{<body 2>}
```

`\cvitemwithcomment` A variation of `\cvitem` with an additional argument for a comment. Can be used to enter skills such as computer skills or language skills.

```
\cvitemwithcomment{<descriptor>}{<skill level>}{<comment>}
```

`\cventry` A command for entering an education or job experience. Takes six required arguments: date(s), degree/job title, educational institution/employer, city, academic grade and description. While arguments 3 to 6 aren't optional, they can be left empty. If line breaks in argument 6 aren't done properly, a minipage can be used. Alternatively, `\newline{}` can be used to break lines in argument 6.

```
\cventry{<year--year>}{<degree/job title>}{<institution/employer>}{<city>}{<grade>}{<description>}
```

`\cvlistitem` A command for a single bullet-list item. Very long lines get broken.

```
\cvlistitem{<item>}
```

`\cvlistdoubleitem` A two-column variation of `\cvlistitem`.

```
\cvlistdoubleitem{<item 1>}{<item 2>}
```

`\cvcolumns` An environment typesetting multicolumn `\cvitems`. This can be combined with the `itemize` environment.

```
\begin{cvcolumns}
  \cvcolumn{<category 1>}{<content>}
  \cvcolumn{<category 2>}{<content>}
  \cvcolumn[<width>]{<content>}
\end{cvcolumns}
```

`<width>` is a number between 0 and 1 controlling the width of the column.

2.3.3 Skill matrix macros

The skill matrix is a table for displaying skills such as computer skills or project management skills graphically. The skill matrix table consists of several elements:

- the graphical representation of the skill on a scale from 0 to 5,
- the legend to explain the meaning of the scale,
- a header line to explain the meaning of the table columns and
- the actual skill entries.

\cvskill A command for the graphical representation of a single skill. The required argument must be a number from 0 to 5.

```
\cvskill{<0-5>}
```

This command can be used outside of the skill matrix, too.

\cvskilllegend A command for a legend for the skill matrix. Takes six optional arguments: post-padding width and the descriptions for the five skill levels.

```
\cvskilllegend
\cvskilllegend* [<post-padding>] [<level 1>] [<level 2>] [<level 3>]
  [<level 4>] [<level 5>] {<descriptor>}
```

The command with no arguments inserts the legend in its standard form: without a descriptor or any lines. An optional asterisk toggles the inclusion of a dashed line. <post-padding> must be a valid length like 1em or 1ex.

The most general form of this command can be used to translate the legend descriptions into other languages or to add a name descriptor:

```
% Example: German translation
\cvskilllegend[0.2em][Grundkenntnisse]
  [Grundkenntnisse und eigene Erfahrung in Projekten]
  [Umfangreiche Erfahrung in Projekten]
  [Vertiefte Expertenkenntnisse][Experte/Guru]{Legende}
```

\cvskillplainlegend A variation of **\cvskilllegend** with the first three skill levels in the first column.

```
\cvskillplainlegend
\cvskillplainlegend* [<post-padding>] [<level 1>] [<level 2>]
  [<level 3>] [<level 4>] [<level 5>] {<descriptor>}
```

\cvskillhead A command for a header line for the skill matrix. Takes five optional arguments: post-padding width, level, skill label, years of experience and a comment.

```
\cvskillhead [<post-padding>] [<level>] [<skill>] [<years of experience
>] [<comment>]
```

<post-padding> must be a valid length like 1em or 1ex.

\cvskillentry A command for an entry in the skill matrix. Takes five required arguments: skill category, skill level (0 to 5), skill name, years of experience and a comment. Takes a single optional argument for the post-padding width.

```
\cvskillentry* [<post-padding>] {<skill category>} {<0-5>}
  {<skill name>} {<years of experience>} {<comment>}
```

An optional asterisk toggles the inclusion of a dashed line. <post-padding> must be a valid length like 1em or 1ex.

How to make length adjustments to the skill matrix will be explained in section 3.4.1.

2.4 Letter of motivation

To add a subject to the letter of motivation or to close with your signature, see sections 3.6.2 and 3.6.1, respectively.

[**TODO:**
add short
explanation
of
motivation
letter.]

3 Customization

3.1 Styles and their options

Each style allows fine-tuning via options passed into the `\moderncvstyle` command:

```
\moderncvstyle[<option 1>, <option 2>, ...]{<style>}
```

Each style defines its own options, and not all options are available for each style. Below is a list of all the options available for each style:

casual This style allows the following options which *only* affect header and footer styles:

head alignment values: left, right (default). Aligns the title and the picture if one is included.

name values: alternate. Displays the name in all lowercase. Differentiation of the name is done by color (disabled by default). This feature is discouraged for longer names.

data in head values: details, nodetails (default). Toggles between the header and footer as the location of personal data on the page.

symbols values: symbols (default), nosymbols. Toggles between inclusion of icons or text-based abbreviations for personal data.

classic This style allows the following options which *only* affect header and footer styles:

alignment values: left (default), right. Aligns the address block and the picture.

data in head values: details, nodetails (default). Toggles between the header and footer as the location of personal data on the page.

symbols values: symbols (default), nosymbols. Toggles between inclusion of icons or text-based abbreviations for personal data.

banking This style allows the following options:

alignment (body) values: left (default), center, right. Aligns the entries in the style.

rule style values: fullrules, shortrules, mixedrules (default), norules. Adjusts the rules used in the style.

data in head values: details, nodetails (default). Toggles between the header and footer as the location of personal data on the page.

symbols values: symbols (default), nosymbols. Toggles between inclusion of icons or text-based abbreviations for personal data.

oldstyle This style allows the following options:

data in head values: details, nodetails (default). Toggles between the header and footer as the location of personal data on the page.

symbols values: symbols (default), nosymbols. Toggles between inclusion of icons or text-based abbreviations for personal data.

fancy This style allows the following options:

data in head values: details, nodetails (default). Toggles between the header and footer as the location of personal data on the page.

symbols values: symbols (default), nosymbols. Toggles between inclusion of icons or text-based abbreviations for personal data.

Note. Only one option from each option category can be passed in at a time, e.g.

```
\moderncvstyle[left, nosymbols]{casual}
```

3.2 Adjusting colors

The colors of each style can be adjusted.

Note. The color theme must be loaded *before* `\moderncvstyle`, i.e.

```
\moderncvcolor{blue}  
\moderncvstyle{casual}
```

Base colors. Each style defines three main colors: `color0`, `color1` and `color2`. `color0` is black and the main text color. `color1` is the main theme color, like blue, green, etc. `color2` is a some form of grey used for the user data, etc. These colors can be redefined by using either `\definecolor` or `\colorlet`:

```
\definecolor{color1}{rgb}{0.55, 0.55, 0.55} % dark grey  
\colorlet{color1}{black}
```

Any mechanism for naming and defining colors used by the `xcolor` package can be used to redefine the colors of a `moderncv` style.

Fine tuning. If an even finer control over the color scheme of the style is desired, the following color settings are used internally for the casual style and can be redefined:

```
% Head and footer  
\colorlet{lastname color}{color1}  
\colorlet{name color}{lastname color}  
\colorlet{headrule color}{color1}  
\colorlet{firstname color}{lastname color!50}  
\colorlet{title color}{color2}  
\colorlet{address color}{color2}  
\colorlet{quote color}{color1}  
\colorlet{picture frame color}{color1}  
% Body  
\colorlet{bodyrule color}{color1}  
\colorlet{section color}{color1}  
\colorlet{subsection color}{color1}  
\colorlet{hint style color}{color0}  
% Letter  
\colorlet{letter closing color}{color2}  
% Skill matrix  
\colorlet{skill matrix full color}{color1}  
\colorlet{skill matrix empty color}{color2!30}
```

3.3 Modifying symbols and icons

3.3.1 Icons

As stated in section 3.1, the use of icons is toggled by the `symbols` option that can be passed to `\moderncvstyle`.

The icons used in the display of the personal data (phone numbers, email, fax, social media accounts, etc.) can be customized by redefining the internal commands for the symbols:

```
\renewcommand*{<\symbolcommand>}{\small<\symbol>~}
```

Using `\small` is optional, but the default behavior is to render all icons using `\small`. Use `\small` if one merely wishes to replace an icon/symbol while keeping the size consistent with the default icons/symbols. The tilde ensures proper spacing after the symbols and is recommended as well.

Currently `moderncv` supports the following commands as `<\symbolcommand>`:

- `\addresssymbol`
- `\mobilephonesymbol`
- `\fixedphonesymbol`
- `\faxphonesymbol`
- `\emailsymbols`
- `\homepagesymbol`
- `\linkedinsocialsymbol`
- `\xingsocialsymbol`
- `\twittersocialsymbol`
- `\githubsocialsymbol`
- `\gitlabsocialsymbol`
- `\stackoverflowsocialsymbol`
- `\googlescholarsocialsymbol`
- `\telegramsocialsymbol`
- `\whatsappsocialsymbol`
- `\signalsocialsymbol`
- `\matrixsocialsymbol`
- `\orcidsocialsymbol`
- `\researchgatesocialsymbol`
- `\researcheridsocialsymbol`
- `\bitbucketsocialsymbol`
- `\skypesocialsymbol`
- `\bornsymbol`

The possible options for `<\symbol>` depend on the package that is used. By default, the `marvosym` package is loaded if `pdflatex` is used, and the `academicons` and `fontawesome5` packages are loaded if either `lualatex` or `xelatex` is used. Full lists of all available symbols and icons can be found in the documentation of each respective package:

<https://ctan.org/pkg/marvosym>

<https://ctan.org/pkg/fontawesome5>

<https://ctan.org/pkg/academicons>

Example. If one wanted to use the dingbat fonts to replace the default phone symbol, one should load the `pifont` package in the preamble and then substitute the default symbol with the dingbat symbol ☎ with

```
\renewcommand*{\fixedphonesymbol}{\ding{38}~}
```

3.3.2 Listing labels

The labels used in `itemize` environments, `cvlistitem` and `cvlistdoubleitem` can be changed in two different ways:

- Redefining `\labelitemi`, `\labelitemii`, `\labelitemiii` and `\labelitemiv` changes the labels for `itemize` environments as well as for `cvlistitem` and `cvlistdoubleitem`, e.g.
`\renewcommand{\labelitemi}{-}`
- Redefining `\listitemsymbol` changes the labels for `cvlistitem` and `cvlistdoubleitem` but *not* for `itemize` environments, e.g.
`\renewcommand{\listitemsymbol}{-}`

3.4 Adjusting lengths

Some lengths in `moderncv` can be adjusted.

The hints column can be adjusted by setting `\hintscolumnwidth`:

```
\setlength{\hintscolumnwidth}{3cm}
```

For the classic style, the amount of horizontal space for the name can be adjusted by setting `\makecvheadnamewidth` to avoid breaks:

```
\setlength{\makecvheadnamewidth}{10cm}
```

One should be careful though, as the length is normally calculated to avoid any overlap with the personal information. This should be used at one's own typographical risk.

[TODO:
Add more
adjustable
lengths]

3.4.1 Lengths in the skill matrix

Both the width of the skill matrix legend and the width of the skill matrix columns can be adjusted.

The width of the skill matrix legend can be adjusted as follows:

```
\setcvskilllegendcolumns [<width>] [<factor>]  
% Examples:  
\setcvskilllegendcolumns [] [0.45]  
\setcvskilllegendcolumns [\widthof{'Legend'}] [0.45]  
\setcvskilllegendcolumns [0ex] [0.46] % useful for the banking style
```

`<width>` should be a length smaller than `\textwidth`, and `<factor>` must be between 0 and 1.

The width of the skill matrix columns can be adjusted as follows:

```
\setcvskillcolumns [<width>] [<factor>] [<exp_width>]  
% Examples:  
\setcvskillcolumns [5em] [] [] % adjust first column, same as \  
setcvskillcolumns [5em]  
\setcvskillcolumns [] [0.45] [] % adjust third (skill) column, same  
as \setcvskillcolumns [] [0.45]  
\setcvskillcolumns [] [] [\widthof{'Year'}] % adjust fourth (years  
of experience) column  
\setcvskillcolumns [] [0.45] [\widthof{'Year'}]  
\setcvskillcolumns [\widthof{'Language'}] [0.48] []  
\setcvskillcolumns [\widthof{'Language'}]
```

`<width>` and `<exp_width>` should be lengths smaller than `\textwidth`, and `<factor>` must be between 0 and 1.

3.5 Page breaks and orphaned section headers

If L^AT_EX breaks pages just after `\section` or `\subsection` commands, try adjusting the stretchability of the page with `\cvsectionstretchability` or `\cvsubsectionstretchability`:

```
\setlength{\cvsectionstretchability}{\baselineskip}
\setlength{\cvsubsectionstretchability}{100pt}
```

These two lengths tell L^AT_EX how much extra length it needs after `\section` and `\subsection` commands. By default, `moderncv` sets both lengths to `0.9\baselineskip`.

This should solve orphaned `\section` and `\subsection` commands that are used alone for most users. However, L^AT_EX does not check for content. For example, writing

```
\section{blub}
\subsection{blubblub}
```

one after the other may cause L^AT_EX to place the section and subsection headers on separate pages. Since L^AT_EX considers the subsection header to not be orphaned, it may place the section header at the bottom of a page if there is enough space to do so while placing the subsection header on the next page. One solution is to increase `\cvsectionstretchability` to force the break of the section header. However, this changes the behaviour for all `\section` commands in your CV and might cause unnecessary page breaks. It is therefore recommended to force the page break manually with a `\newpage` in this case.

Experts only: Internally, `moderncv` uses a custom `\needspace` command:

```
\NewDocumentCommand\@cvneedspace{m}{%
  \begingroup
  \setlength{\dimen@}{#1}%
  \vskip\z@\@plus\dimen@
  \penalty \withinstretchpenalty\vskip\z@\@plus -\dimen@
  \vskip\dimen@
  \penalty \poststretchpenalty%
  \vskip -\dimen@
  \vskip\z@skip % hide the previous |\vskip| from |\addvspace|
  \endgroup
}
```

Thus, instead of setting `\cvsectionstretchability` and/or `\cvsubsectionstretchability`, page break behavior can be adjusted by redefining the following internal penalties:

```
\renewcommand{\withinstretchpenalty}{<-100...9999>}
\renewcommand{\poststretchpenalty}{<-100...9999>}
```

By default, `moderncv` sets `\withinstretchpenalty` to 0 and `\poststretchpenalty` to 9999. The higher the penalties are, the less likely a page break will occur. A good explanation of `\needspace` can be found at <https://tex.stackexchange.com/questions/348994/understanding-needspace>.

3.6 Tips and Tricks

3.6.1 Including a scanned signature in the letter of motivation

To add a scanned signature to your letter of motivation, add the following to your preamble:

```

\makeatletter
\renewcommand*{\makeletterclosing}{
  \@closing\[\[3em]%
  \includegraphics[height=1.5cm, width=5.5cm]{<signature.png>}
  % \textbf{\@firstname~\@lastname}%
  \ifthenelse{\isundefined{\@enclosure}}{}}{%
    \%
    \vfill%
    \textcolor{color2}{\textit{\enclname: \@enclosure}}%
  }%
}
\makeatother

```

3.6.2 Including a subject in the letter of motivation

To add a subject to your letter of motivation, add the following to your preamble:

```

\makeatletter
\renewcommand*{\makeletterhead}{%
  \recomputeletterlengths % in case we are switching from letter
  to resume, or vice versa
  % recipient block
  \begin{minipage}[t]{0.5\textwidth}
    \raggedright\addressfont%
    \textbf{\textup{\@recipientname}}\%
    \@recipientaddress%
  \end{minipage}
  % date
  \hfill % US style
  % \[\[1em] % UK style
  \@date\[\[4em] % US informal style: "January 1, 1900"; UK formal
  style: "01/01/1900"
  % opening
  \raggedright%
  \textbf{\subject}\[\[2em]
  \@opening\[\[1.5em]%
  % ensure no extra spacing after \makelettertitle due to a
  possible blank line
  % \ignorespacesafterend % not working
  \hspace{0pt}\par\vspace{-\baselineskip}\vspace{-\parskip}
}
\makeatother

```

Then a subject can be added to the letter of motivation with

```
\subject{<subject_text>}
```

3.6.3 Legal disclaimer at the end of the CV

Some countries (e.g. Italy) require you to add a legal disclaimer authorizing the use of the personal data in your CV. To add such a disclaimer, add the following to the bottom of your CV:¹

```

\vfill
\begin{center}
  \textit{\small Ai sensi del D. Lgs. 196/2003 ...}
\end{center}

```

¹Example provided by Cristina Sambo

4 Implementation details

4.1 Creating your own styles

[**TODO:** Explain how to create styles and how to recombine headers, footers, bodies etc.]

4.2 Required packages

In addition to the packages that `moderncv` provides, the following packages are loaded internally:

- `etoolbox`
- `fancyhdr`
- `fontawesome5`
- `ifthen`
- `tweaklist`²
- `academicons`
- `xcolor`
- `calc`
- `tgpagella`
- `ifxetex` or `ifluatex`
- `xparse`
- `ebgaramond`
- `fontenc`
- `microtype`
- `kurier`
- `url`
- `expl3`
- `multirow`
- `hyperref`
- `tikz`
- `arydshln`
- `graphicx`
- `changepage`

Most of these packages should be included in your L^AT_EX distribution of choice.

4.3 Known conflicts with other packages

1. `moderncv` is incompatible with `biber`.
2. `moderncv` is incompatible with BibLaTeX.
3. `moderncv` is incompatible with `babel` in Spanish

4.4 Known bugs

1. Skill matrices don't break automatically in `fancy` style.
2. Long names break the `oldstyle` style and possibly other styles (needs testing).
3. Long URLs in `classic` style can make the name break line. Fixed width for the address part must be implemented.
4. When using the `fancy` style, undesired space is added between the bibliography head and the first entry, as well as after the last entry.
5. Footnotes generate errors, but the output seems correct when running with `-interaction=nonstopmode`.
6. When using CJK, the last `\clearpage` required for the `fancyhdr` package to work properly kills the “lastpage” counter, and therefore also the page numbering.
7. `moderncv` produces the error “lonely `\item`--perhaps a missing list environment” when used with the `bibentry` package, though the output is actually correct. Among other things, this causes compilation by LyX to stop.

²The `tweaklist` package has been altered for the development of `moderncv` and ships with `moderncv`.

8. The space after a `\cventry` gets eaten up when the last argument contains a nested `itemize` environment. An ugly hack and incomplete solution was implemented by including a `\strut` in every item label, but this doesn't solve the problem for multi-line items. Ideally, the `\strut` should end the item, but there seems to be no way to do this.