moderncv - v2.1.0

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January 21, 2021

Abstract

moderncv provides a document class for typesetting modern curriculum vitæand corresponding cover letters for applications in various styles. Five predefined styles are available and each of the styles can be adjusted through options adjusting headings and colors. It is fairly customizable, allowing the user to adjust the look and feel of each style to their liking. [TODO: add mention of skill matrix feature once it is accepted]

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1 Getting started

1.1 How to read this manual

This manual is organized as follows. The present section contains information on how to get started with the **moderncv** package, i.e. how to install required packages to your system. Section 2 provides a step by step guide of the **moderncv** template file and how to work with it. Section 3 discusses details of the customizations that can be done by the user: The different styles, their options, colors and tips and tricks. Section 4 contains information about the packages being used by **moderncv**, known problems and possible solutions that have been found.

1.2 Installation instructions

If the moderncv package does not ship with your LATEX distribution, or 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 some additional packages might have to be installed. Section 4.1 lists all packages that **moderney** requires to be installed on your system.

2 The moderncy template step by step.

This section is meant as a quick reference to the moderncv package and should contain enough information to get a first working curriculum vitætypeset. The easiest way to get started with moderncv is to adjust the template that comes with the package. In case the moderncv package is part of your LATEX distribution, search for the folder moderncv on your system containing all files of the package. In this folder, there should be a file called template.tex. In case you downloaded the package from GitHub or CTAN move into the folder of the newly downloaded (and possibly extracted) package to find the file template.tex there.

Note. If you downloaded **moderncv** from GitHub or CTAN and you move the template.tex to another folder make sure to adjust the TEXINPUTS variable to find the newly downloaded package. Otherwise either the old packages version gets used or LATEX throws an error.

Test your setup by compiling template.tex and have a look at the result.

Note. The moderncv packages should compile fine with pdflatex, lualatex and xelatex. However, when using pdflatex not all icons are available so using either lualatex or xelatex is strongly recommended.

2.1 Basic setup

A document using the **moderncv** document class gets set up as any other document class. We go through the template step by step.

Configuring document class options

The moderncy document class is loaded as per usual, by

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

where up to one of each category of the following options

font family: sans, roman
 font size: 10pt, 11pt, 12pt
draft/final: draft, final

can be passed to the document class. By default, the **moderncv** document class uses a4paper, 11pt, final.

Configuring moderncv style and color

Choose a moderncy style and color by adjusting the commands

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

where the possible options as explained in template.tex are

```
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, the description of these options is postponed to section 3.1.

Font family and page numbering

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

The default font family is set by adjusting and uncommenting the line containing the command \renewcommand{\familydefault} {\sfdefault} in template.tex. Use \sfdefault for the default sans serif font, \rmdefault for the default roman one, or any Tex font name. Uncomment the line %\nopagenumbers{} to suppress automatic page numbering for CVs longer than one page.

Adjusting input encoding

In case you are not using xelatex ou lualatex which use utf8 encoding by default uncommend the line containing \usepackage[utf8]{inputenc}} and adjust the encoding to your needs.

```
%\usepackage[utf8]{inputenc}
%\usepackage{CJKutf8} % if you need to use CJK to
    typeset your resume in Chinese, Japanese or Korean
```

That's about it for the general **moderncv** setup. The next section deals with inputting your personal data.

2.2 Personal data

Edit the the personal data section to reflect your personal information. This data will be inserted in the header of the first page of the curriculum vitæand/or in the footer of every page. This data will also appear on the cover letter. The default template settings are

```
\name{John}{Doe}
\title{Resum\'{e} title}
\address{street and number}{postcode city}{country}
\phone[mobile]\{+1\sim(234)\sim567\sim890\}
\phone[fixed]{+2~(345)~678~901}
\rho = [fax] \{+3 \sim (456) \sim 789 \sim 012\}
\email{john@doe.org}
\homepage{www.johndoe.com}
% Social icons
\social[linkedin]{john.doe}
\social[xing]{john\_doe}
\social[twitter]{jdoe}
\social[github]{jdoe}
\social[gitlab]{jdoe}
\social[stackoverflow]{0000000/johndoe}
\social[bitbucket]{jdoe}
\social[skype]{idoe}
\social[orcid]{0000-0000-000-000}
\social[researchgate]{jdoe}
\social[researcherid]{jdoe}
\social[telegram]{jdoe}
\social[googlescholar]{googlescholarid}
\extrainfo{additional information}
\photo[64pt][0.4pt]{picture}
\quote{Some quote}
```

In the actual template file, some information is marked as optional and can be commented out if one does not need it. The idea here is that there is options for those who need them. The commands are pretty self explanatory. Try out what you

like and see what you need. [**TODO:** Add note about how to cope with long names and long URLs. is this handled correctly?]

[**TODO:** include figures of the styles here? or in the styles section]

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. Having the line %\renewcommand *{\bibliographyitemlabel}{[\arabic{enumiv}]} uncommented, allows to fine tune the labels. The line %\renewcommand{\refname}{Articles} allows to redefine the bibliography heading string "Publications" that is shown by default. Finaly, adjustments using the multibib package can be done in the last two lines shown here.

[TODO: check whether biber works or not]

2.3 Modifying CV content

[TODO: add short explanation explaning that sectioning can be used.]

2.3.1 Structuring the CV

The command to open a new section is:

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

and every section can be divided into subsections:

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

If necessary, there is a command to close the section:

```
\closesection{}
```

and even one to create an empty section:

```
\emptysection{}
```

An example of their usage can be the next one:

```
\section{Section with your own content}\closesection
Your content here, inside the normal \LaTeX{} environment.
You can use any regular \LaTeX{} command, display mathematics
\[e =m\,c^2,\]
put some table or figure, \dots
\emptysection{}
\cvitem{Now}{Back to moderncv layout, without making a new section :-)}
whose results is shown in figure 1.
```

Figure 1: Example of usage of section commands.

2.3.2 moderncy macros

Inside sections, you can choose between different kind of items depending on the purpose:

• in the sections describing your education or your job experiences, you can use:

```
\cventry{years}{degree/job title}{institution/employer}
{localization}{optional: grade/...}
{optional: comment/job description}
where the last three arguments are optional
```

• inside 'language' cysection environment, you can type every entry with:

```
\cvlanguage{name}{level}{comment}
```

• inside 'computer skills' cysection environment, you can type every entry with:

```
\cvcomputer{category}{programs}{category}{programs}
```

• to typeset lines with a hint on the left:

```
\cvline{leftmark}{text}
```

• to typeset entry with a description on the left, but in two columns inside a cysection:

```
\cvdoubleitem{subtitle}{text}{subtitle}{text}
```

• to typeset lists on one column inside a cysection:

```
\cvlistitem{point1}
```

• to typeset lists on two columns inside a cysection:

```
\cvlistdoubleitem{point1}{point2}
```

• to add a section listing all your publications stored in a BibTeX file:

```
\nocite{*}
\bibliographystyle{plain}
\bibliography{BibTeX_file}
```

where the name of the section title can be changed by redefining the refname with \renewcommand{\refname}{<new_name>}

2.4 More customizations

You have some useful commands to personalize your CV further.

Modifying the symbols

You can modify the symbols used for the personal data (phone number, the email, \dots) redefining phonesymbol , emailsymbol , addresssymbol , mobilesymbol , faxsymbol .

For example: if you want to use the dingbat fonts, load the pifont package in the preamble, then substitute the default symbol **a** with the dingbat symbol **b** by:

```
\renewcommand{\phonesymbol}{\ding{38}}
```

You can change the symbol for lists in two way:

- redefining the command listitemsymbol: \renewcommand{\listitemsymbol}{-}
- adding a specification for the label in cvlistitem and cvlistdoubleitem

For example: the following code produces the result shown in figure 2.

Figure 2: Example of customization of the list labels.

Adjusting lengths

The different lengths used by modernev are customizable by

```
\setlength{<length>}{<new_dimensions>}
```

where <length> are quote-width , sep-a-ra-tor-col-umn-width , main-col-umn-width , doub-le-i-tem-main-col-umn-width , list-i-tem-sym-bol-width , list-doub-le-i-tem-main-col-umn-width ,

In particular, the first column, can be set to any width. You can do that in two way:

- using \sethintscolumnlength{<length>}, where <length> is the desired length in a unit LaTeX understands
- using \sethintscolumntowidth{<string>}, where <string> is a string of the desired length (usually, the longest string that has to appear in the column)

Additional commands

There are commands to manage hypertextual links:

- \link[optional text]{URL}
- \httplink[optional text]{link}
- \emaillink[optional text]{link}

There is a \today command, useful for example if you need to add the date the CV was produced.

Putting things at the end of CV

Sometimes there is the need to add some lines at the end of the CV. For example, in Italy is necessary to add the permission to treat the personal data contained in the résumé. You can do that dropping out of the layout of moderncv and pushing the lines at the end by the command \vfill:

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

3 Customization

- 3.1 Styles and their options
- 3.2 Colors
- 3.3 Tweaks

4 Implementation details

4.1 Required packages

In addition to the packages that **moderncv** itself provides the following packages are loaded internally:

etoolbox, ifthen, xcolor, ifxetex, ifluatex, fontenc, url, hyperref, graphicx, fancyhdr, tweaklist, calc, xparse, microtype, expl3, tikz, changepage, fontawesome 5, academicons, tgpagella, ebgaramond, kurier.

Optionally 1modern gets loaded as well if the packages is installed. Note that the tweaklist package has been altered for the development of moderncv and ships with moderncv. [TODO: Add required packages of cvskillmatrix]

Most of the packages should be included in the LATEX distribution of your choice.

4.2 Known conflicts with other packages

4.3 Known bugs