

The `komacv` class*

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Abstract

The `komacv` class makes typesetting an attractive CV easy. While it comes with several predefined styles it is still highly customizable. Virtually all settings can be controlled by user commands.

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1 Introduction

This class originates from an imitation of the `moderncv` class. Thanks to Xavier Danaux for that fine class! While `komacv` owes a lot to the original code, it does not pretend to be a precise copy and does not intend to keep up with the further development of the `moderncv` class. The original class was taken as an important starting point but it is likely that the further development will take different directions.

While `moderncv` is a stand-alone class, this one is a wrapper class building upon the KOMA-class `scrartcl` (hence the `koma-` in the name of this class). This gives users more flexibility as the page layout is easily adjustable and incompatibilities with other packages are less likely to occur. The incompatibility of the `moderncv` class with the `biblatex` package was actually the main reason for my building the predecessor of this class, the `koma-moderncvclassic` package. Compared with that package, this class offers much more flexibility and customizability, comes with a variety of styles and is extensible (new styles can be added easily).

With `\documentclass{komacv}` at the beginning of your document the commands and environments of both this class and the `scrartcl` class become available.

The variants of the file `komacv_example` which come with this package show exemplarily how a document with `komacv` might be structured and how the typical commands are to be used. They are not intended as examples of good style but as demonstrations of the potential of the `komacv` class. In this documentation all commands and features are explained.

As for typesetting a covering letter with `komacv`, see [8](#).

2 Engines

This class can be run with either $\text{X}\text{\LaTeX}$, $\text{X}\text{\LaTeX}$, $\text{Lua}\text{\LaTeX}$, $\text{Lua}\text{\LaTeX}$ or $\text{pdf}\text{\LaTeX}$. See also 3.7.

3 In the preamble

3.1 Documentclass options

`komacv` accepts the following key-value pairs as optional arguments of `\documentclass`:

`[xcolor=<value>]`

The value of the key `xcolor` is passed to the `xcolor` package and takes the name of the color spectrum. These are the names of color spectra defined by `xcolor`: `svgnames`, `dvipsnames`, `x11names`. If the option is not set or the key `xcolor` is given without a value, then the default is used which is `x11names`.

`[color=<value>]`

The value of the key `color` is the name of the color to be used in special elements of the document like section and subsection headers of the document (depending on the chosen style). The name is either a base color name (black, blue, green a.s.o.) or a color name according to the chosen color spectra defined by `xcolor` (e.g. `Firebrick2` in `x11names`). See the `xcolor` documentation for a list of valid color names. Color definitions such as `red!75` or `blue!30!green` are also accepted. Yet another possibility is to specify `mycolor` in the preamble (see below). If the color option is given without an argument or not given at all,

`[color=mycolor]`

is assumed as default.

If `mycolor` was not defined, the fallback is `blue` instead of `mycolor`.

`[style=<value>]`

This option loads the style variant. The default is `style=classic`. Other variants currently available are: `casual` and `oldstyle`. Other variants may follow in time, contributions are very welcome! See the example documents to see the different layouts the styles produce.

`[fontawesome=false]`

In case you don't like the social media symbols offered by `fontawesome` or if `fontawesome` provides error messages you may turn off the use of `fontawesome` with this option. Please note that you don't have to use this option to avoid `fontawesome`; you may just redefine the social media symbols to your liking with `\renewcommand` (see 3.3).

`\KOMAOPTIONS`

In addition to these `komacv` specific options, all KOMA-options may be used as with the KOMA-classes. They may be given either in the option list of `\documentclass` or with the help of `\KOMAOPTIONS` somewhere in the preamble:

`\documentclass[<key=value>]{komacv}` or

`\KOMAOPTIONS{<key1=value1,key2=value2>}`

and will be passed to the `scrartcl` class (on which the `komacv` class is built).

3.2 Personal data (header and footer)

To specify your personal data set the macros with `\renewcommand`:

`\renewcommand*{<command>}{<Definition>}`, for example:

	<code>\renewcommand*\title{Curriculum vitae}.</code>
<code>\headline</code>	With <code>\headline[<i>alignment</i>]{<i>type</i>}[<i>content</i>]</code> you can set – guess what? – a headline or title for the whole document, either a title (like “Curriculum vitae”) or your name, which may come in handy if you have a very long name that is otherwise being displayed in an unsatisfying way. The first optional argument sets the alignment (<code>l</code> =left, <code>r</code> =right, <code>c</code> =centered (default)). The mandatory argument defines the type (<code>name</code> or <code>title</code>). The last optional argument defines the content of the headline. If it is omitted, with type <code>name</code> first name, last name and (if defined) the academic title are used, with type <code>title</code> “Curriculum vitae”. Apart from that, the only difference between the two types is that with type <code>title</code> the name is printed with the personal data, whereas it is omitted with type <code>name</code> to avoid duplicates. Depending on the combination of style and type the result may be aesthetically questionable. <i>Example:</i> <code>\headline{name}</code> sets your defined first name and family name as a centered headline. <code>\headline[r]{title}[Lebenslauf]</code> sets “Lebenslauf” as a right-aligned headline.
<code>\title</code>	The macro <code>\title</code> sets nothing in the document itself but is for the pdf document properties only. Note that for this macro special characters (like German umlauts) must be given in the L ^A T _E X notation (e.g. <code>"a</code>) even if utf is enabled for the document.
<code>\firstname</code>	<p>The macros listed beside, if specified, will be used in the head (or foot, depending on the style in use) of your CV. If there are elements you do not wish to appear in your CV just leave the corresponding macros undefined.</p> <p>The names of the macros are self-explanatory, so I will give just a few hints.</p> <p><code>\acadtitle</code> expects your academic title(s). <code>\addressstreet</code> is for your street or P.O. Box, and <code>\addresscity</code> for your city, ZIP Code and possibly your country.</p> <p><code>\extrainfo</code> takes any arbitrary additional information and will appear at the end of the address block (depending on the chosen style).</p> <p>Put your life motto (or something alike) into <code>\cvquote</code>. It will usually appear somewhat separated from the rest of the header.</p> <p>See below (3.6 and 3.7) how to change the appearance of the information given in these macros.</p> <p>The header and possibly footer are set with the command <code>\maketitle</code> at the beginning of the document.</p> <p>If you want to create your own footer, define your own page style and call it with <code>\thispagestyle{<i>mypagestyle</i>}</code> right after <code>\maketitle</code>. The command <code>\addtofooter[<i>symbol</i>]{<i>text</i>}</code> can be used in the new page style definition to add something to the footer. The optional argument expects the symbol to be used as a separator between elements that appear on the same line. If it is omitted <code>\fsymbol</code> is used.</p> <p>For a redefinition of <code>\fsymbol</code> use <code>\renewcommand*\fsymbol{<i>symbol</i>}</code>, for example: <code>\renewcommand*\fsymbol{~\textbullet~}</code>.</p>
<code>\familyname</code>	
<code>\mobile</code>	
<code>\phonenumber</code>	
<code>\faxnr</code>	
<code>\email</code>	
<code>\homepage</code>	
<code>\twitter</code>	
<code>\github</code>	
<code>\facebook</code>	
<code>\linkedin</code>	
<code>\acadtitle</code>	
<code>\addressstreet</code>	
<code>\addresscity</code>	
<code>\extrainfo</code>	
<code>\cvquote</code>	
<code>\addtofooter</code>	
<code>\fsymbol</code>	

3.3 Symbols

`\addresssymbol`
`\phonesymbol`
`\mobilesymbol`
`\faxsymbol`
`\emailsymbol`
`\homepagesymbol`
`\twittersymbol`
`\githubsymbol`
`\facebooksymbol`
`\linkedsymbol`
`\listitemsymbol`

You can change (or set) the symbols (or the string) used before the phone, fax and mobile number, the e-mail address and the homepage with the according macros (see beside) and `\renewcommand`, e.g.

`\renewcommand\phonesymbol{Tel.~}`

In the same way the item symbol in the listitems may be changed with the macro `\listitemsymbol`.

3.4 Picture

To include a picture into the head of your CV set

`\photo[frame]{width}{path/pic}`

in the preamble.

With **frame** as optional argument the picture is set into a frame, by default in the color chosen as document color. See below (3.5, 3.6) how to change the color and the thickness of the frame.

With the **classic** style, **[mframe]** (for margin frame) will extend the picture into the right page margin with half its width (or according to the length of `\mframepicshift`, if defined). With other styles **[mframe]** is an alias for **[frame]**.

The first mandatory argument takes the width the picture is resized to, all common L^AT_EX measures may be used.

The second mandatory argument takes the name of the picture file. If the picture is not located in the same directory as the document and no `\graphicspath` was defined, the path to the picture file must be given as well. This argument will be passed to the **graphicx** package, so all file types that **graphicx** can handle are allowed (jpg/jpeg, png, pdf).

`\photo`
`[frame]`

[mframe]

<width>

<path/pic>

3.5 Lengths

The following lengths may be changed with the usual L^AT_EX commands `\setlength`, `\addtolength` and `\settoheight`.

`\hintscolwidth`
`\sepcolwidth`

The width of the hint column. The default value is `0.2\textwidth`.

The distance between the hint column and the main column. In `\cvsdoubleitem` and `\cvlistdoubleitem` this is also the distance between the aligned items, or the aligned pairs of header and item.

`\infocolwidth`

In **oldstyle** style the address and possible extra information are presented in the left margin of the width `\infocolwidth`. Its default value is 3.5cm.

`\sepinfocolwidth`

In **oldstyle** style the distance between the info column and the main column.

`\maincolwidth`

The width of the main column in all elements, except for the **doubleitem** elements.

`\dbitemmaincolwidth`

Width of each maincolumn where two items are set per line with `\cvsdoubleitem`.

`\listitemsymbolwidth`

Horizontal space reserved for the symbol in `\listitem` entries. By default this is the width of `\listitemsymbol` followed by a nonbreaking space (~).

`\listitemmaincolwidth`

Width of the maincolumn where `\cvlistitem` is in use. By default this is the `\maincolumnwidth` minus `\listitemsymbolwidth`.

`\listdbitemmaincolwidth`

`\titlesepwidth`

`\mframepicshift`

`\fboxrule`

`\fboxsep`

`\quotewidth`

`\footerwidth`

`\aftertitlevspace`

`\afterquotevspace`

`\afterelementsvspace`

`\beforesecvspace`

`\aftersecvspace`

`\beforesubsecvspace`

`\aftersubsecvspace`

`\beforesigvspace`

Width of each maincolumn where two items are set per line with `\cvlistdoubleitem`.

Horizontal space between the text information given in the header and the picture (if `\photo` is set).

If a picture is set with the optional argument `[mframe]` of `\photo` the picture will be placed partly in the margin. The length `\mframepicshift` controls how much the picture will be moved to the right (from the right text margin). This works only with the `classic` style; with other styles `\mframepicshift` does nothing.

The thickness of the frame around your picture and the space between the frame and the picture (if `\photo` is set with either `[frame]` or `[mframe]` as optional argument).

The width of the quote.

The width of the footer (used in `casual` style).

Vertical space between head and quote (or main text, if no quote is given).

Vertical space between quote and main text. Used only if quote is given.

Vertical space inserted after each element (`\cvitem`, `\cventry`, ...).

Vertical space inserted before or after sections and subsections. Use an elastic length (e.g. something like `3ex plus .2ex minus .1ex` or `\baselineskip`). Note that the section and subsection definition of `komacv` needs improvement, so the setting of these lengths may not produce the desired result and the result may change in future versions.

Vertical space inserted before the signature.

3.6 Colors

`\colorlet`

The color theme of the whole document is changed via the documentclass options as described above (3.1). If you want to change the color of certain elements only you may do so with the command

`\colorlet{<elementcolorname>}{<color>}`, for example

`\colorlet{firstnamecolor}{red}` (basic color name) or

`\colorlet{firstnamecolor}{Firebrick2}` (color name as defined in the color spectrum specified with the documentclass option `[<xcolor= >]`, all names in this case) or

`\colorlet{sectitlecolor}{firstnamecolor}` (make the sectiontitles have the same color as the firstname).

With the colnames given beside you can change the color of the corresponding elements that are used in the head (or foot) of your CV. By default (i.e. if you do not change the colors with `\colorlet`) the text in the CV head is black. More precisely, the `firstnamecolor` is black, the other elements of the head take the color of the firstname. So if you want to change the color of the whole text in the head, it suffices to change `firstnamecolor`. If you want the different elements to have different colors, you have to define them separately.

`firstnamecolor`

`famlynamecolor`

`acadtitlecolor`

`addresscolor`

`quotecolor`

`framecolor`

`framebackcolor`

`framecolor` and `framebackcolor` may be specified when `\photo` is used with either `[frame]` or `[mframe]` as optional argument. `framecolor` sets the color of the frame around the picture, `framebackcolor` of the interspace between frame and picture. By default `framecolor` is the color of the document colortheme, `framebackcolor` is white.

`secbarcolor`

`seccolor`

`subseccolor`

By default the section headers, the bar beside the section headers (if

provided by the current style) and the subsection headers are given in the color of the document colortheme. To change the settings use the colornames given beside.

hintcolor
\definecolor
mycolor

hintcolor is the name of the color used for the text in the hint column. By default it is black.

If you want to assign a color to a name you can do so with the \definecolor command from the xcolor:

\definecolor{mycolor}{cmyk}{0.92,0,0.87,0.09}.

This new (or any other) name may be given as value to the color key in the documentclass optionlist and used with \colorlet as just described.

3.7 Encoding and Fonts

This class does not load any fonts. The different engines have their own ways of handling fonts and it is up to the user to choose the engine and a font suitable for the style in use. With Xe_{La}TeX, Xe_{La}TeX, Lua_{La}TeX and Lua_{La}TeX fontspec is loaded by komacv, with pdf_{La}TeX utf8 is loaded as input encoding and T1 as fontencoding. Set the desired font in a usual engine-specific way, e.g. with \setmainfont{font} for Xe_{La}TeX, Lua_{La}TeX and friends and with \usepackage{font} for pdf_{La}TeX.

The element specific font attributes are set with \newkomafont and may be adjusted with \setkomafont or \addtokomafont.

For example:

firstnamefont
familynamefont
acadtitlefont
addressfont
quotefont
hintfont
commentfont
commentmainfont
linkfont
hhttplinkfont
emaillinkfont
section
subsection

\setkomafont{firstnamefont}{\fontsize{24}{26}\itshape} or
\addtokomafont{familynamefont}{\scshape} or
\setkomafont{addressfont}{\usekomafont{quotefont}}.

\setkomafont{section}{\Large\sffamily\mdseries\slshape}.
\addtokomafont{subsection}{\bfseries}.

By default familynamefont is the same as firstnamefont, so if you want to change both it suffices to change firstnamefont. addressfont is used for the whole addressblock, including address, phone and fax numbers, email address, homepage address and extrainfo.

commentfont and commentmainfont are used in \cvitemwithcomment only.

linkfont, httplinkfont, httpslinkfont, emailinkfont are used for the link commands \link, \httplink, \httpslink, and \emailink (described below 4.8).

Font attributes of elements that belong to the scrartcl class are also changed in the usual KOMA-way, e.g.:

\setkomafont{section}{\Large\sffamily\mdseries\slshape}.
\addtokomafont{subsection}{\bfseries}.

Switching to a sans-serif font as default is done in the usual L_AT_EX way, e.g.

\renewcommand\familydefault{\rmdefault}\normalfont

at the beginning of the document (not in the preamble!) This will change the font of some elements, though not all. Make use of the font definition macros for everything else.

3.8 Page number

\totalpagemark

The command \totalpagemark prints the total number of pages. With the following definition in your preamble you will get the page number followed

by a slash and the total number of pages in the outer foot of your pages (with the help of `sclayer-scrpage` which is loaded by the `documentclass`):

```
\pagestyle{scrheadings}
\clearpairofpagestyles
\ofoot{\pagemark/\totalpagemark}
```

3.9 Hypersetup

`\hypersetup`

`pdfauthor`
`pdftitle`
`pdfsubject`
`pdfkeywords`
`allbordercolors`
`citebordercolor`
`filebordercolor`
`linkbordercolor`
`menubordercolor`
`urlbordercolor`
`runbordercolor`

`urlcolor`

To change the way hyperlinks are highlighted in the pdf document, use the `\hypersetup` command. This command is provided by the `hyperref` package which is loaded by the `komacv` class. See the `hyperref` manual for the options available. Example: use `\hypersetup{pdfborder = false}` to remove the box around links in the pdf-document.

Note: The following `\hypersetup` option keys (and these only) must *not* be redefined with `\hypersetup` but with `\renewcommand`:

`pdfauthor`, `pdftitle`, `pdfsubject`, `pdfkeywords` and all `...bordercolor` options. *For example*, do not use:

```
\hypersetup{pdftitle = {My-CV}} but rather:
\renewcommand*\pdftitle{My-CV}.
```

This is necessary because the defaults defined by the `documentclass` are loaded at the end of the preamble and would overwrite any user settings.

All `\hypersetup` color options accept the same color names as does the `documentclass` `color` option (i. e. it depends on the setting of the `documentclass` option `xcolor` which names will be recognized). So you can change the color options like this:

```
\renewcommand*\urlbordercolor{green} (for the ...bordercolor op-
tions), but
\hypersetup{urlcolor=pink} (for all other ...color options).
```

4 In the document

4.1 \maketitle

`\maketitle`

With `\maketitle` at the beginning of your document your personal data and your picture as specified in the preamble will be set in the header (and possibly footer) of the first page according to the chosen style.

If you want the footer to appear on all pages, use `\pagestyle{footer}` or `\pagestyle{mypagestyle}` somewhere at the beginning of your document (not in the preamble).

4.2 Sections and subsections

To structure your CV into sections like “Education”, “Job training”, “Interests” a.s.o. use the `\section` and `\subsection` commands. They are formatted according to the current style and include no section numbering. See above (3.6 and 3.7) how to change the color and the font attributes of sections and subsections.

4.3 `\cvitem`

`\cvitem`

`\cvitem[<spacing>]{<header>}{<text>}` is for single pairs of header and text. The header will appear in the hint column, the main text in the main column.

The optional argument defines the vertical space after this `\cvitem` element. This applies analogously to all the elements with an optional spacing argument.

To change the vertical space used after *all* `\cv...` elements that have an optional spacing argument, change `\afterelements vspace` as described above (3.5). If the optional spacing argument is used it overrides the value of `\afterelements vspace` for the current element.

Caveat: No newlines (`\`) or paragraphs (`\par` oder empty lines) are allowed inside `\cvitem` and the other predefined elements. They will lead to an error message like:

```
! Paragraph ended before \cvitem was complete.
and the parsing process will stop.
```

4.4 `\cvdoubleitem`

`\cvdoubleitem`

`\cvdoubleitem[<spacing>]{<header1>}{<text1>}{<header2>}{<text2>}` puts two pairs of header and text in one line. The first header appears in the hint column.

4.5 `\cvlistitem` and `\cvlistdoubleitem`

`\cvlistitem[<label>]{<item>}` and

`\cvlistdoubleitem[<label>]{<item1>}{<item2>}`

put one or two pair(s) of label and item in the main column. The hint column is left empty. If the optional argument is omitted, the label is the default label provided by the style in use or the label defined with `\listitemsymbol`.

4.6 `\cventry` and `\cventryflex`

`\cventry`

With the command

`\cventry[<spacing>]{<years>}{<degree/job title>}{<institution/employer>}{<localization>}{<grade/...>}{<comment/job description>}`

you get a more structured description. The first mandatory argument will usually be placed in the hint column (depending on the style in use), all others in the main column, each with its own formatting. Just leave empty those arguments you do not need (use empty braces `{}`). Note, however, that the second mandatory argument should not be empty (otherwise the entry in the main column will start with a comma). In case the predefined formatting of the arguments does not suit your needs you may of course use formatting commands inside the arguments. Do you want to change the formatting not just for one entry but for all of them, use `\cventryflex` instead.

`\cventryflex`

With the command

e.g. `\cventryflex[<spacing>]{<years>}{<degree/job title>}{<institution/employer>}{<localization>}{<grade/...>}{<comment/job description>}`

you can use the structure offered by `\cventry` but can do your own formatting of the argument. The first mandatory argument will be displayed in the hint column (depending on the style in use), all others in the main column, the last one inside a minipage environment – this belongs to the structure. Everything else (formatting, content, punctuation marks) is up to you. Use `\renewcommand\cventryflexA{<your definition>}` to define the formatting of the first mandatory, `\cventryflexB` for the second and so on to `\cventryflexE`.

4.7 `\cvitemwithcomment`

`\cvitemwithcomment`

With `\cvitemwithcomment[<spacing>]{<header>}{<text>}{<comment>}` you can list a pair of header and description with a additional right-aligned comment.

4.8 Links

There are four link commands predefined:

<code>\link</code>	<code>\link[<optional text>]{<link>},</code>
<code>\httplink</code>	<code>\httplink[<optional text>]{<link>}, and</code>
<code>\httpslink</code>	<code>\httpslink[<optional text>]{<link>}, and</code>
<code>\emaillink</code>	<code>\emaillink[<optional text>]{<link>}.</code>

All of them take a description as optional argument and the link address as mandatory argument. The optional argument will be shown in the text, the hyperlink points to the address given in the mandatory argument. If no optional argument is given the address in the mandatory argument will be printed. The mandatory argument of `\httplink` will be prefixed with `http://`, of `\httpslink` with `https://`, of `\emaillink` with `mailto:.` To change the font attributes of the links, see above 3.7.

4.9 Itemize

`compactitem`
`compactenum`
`compactdesc`

These are three compact versions of the standard lists `itemize`, `enumerate` and `description` (by the `enumitem` package). In the default setting within `komacv` they come without indentation or extra spacing so they fit nicely into other elements such as `\cvitem`. They are used in the usual way:

```
\begin{compactitem}
\item <text>
\end{compactitem}.
```

If you use them inside other elements make sure there are no empty lines surrounding them, otherwise you will get an error message (see 4.3).

4.10 Signature

`\Signature` `\Signature[<width>]` draws a line of width `<width>` (default: 38.2% of the text width (where $38.2\% = 1 - \frac{1}{\varphi}$, with φ being the golden ratio).

`\signaturecity` Below the line, the macro puts the name of the city, which is expected in the `\signaturecity` macro, and the current date (via `\today`). Use `\renewcommand\signaturecity{<yourcity>}` to specify the city. Before the

signature line, a vertical space of `\beforesigvspace` (default: 3cm) is inserted. Use `\setlength\beforesigvspace{<yourlength>}` to specify another distance.

5 Styles

5.1 The classic style

In `classic` style all personal data appear in the header with the optional picture on the right side. Section and subsection headers are given in the document color and placed in the main column. On the left side of the section headers is a horizontal bar in the hint column.

5.2 The casual style

The `casual` style is built upon the `classic` style with a few changes. The main difference to the `classic` style is that the picture is set at the left of the header and the address block is set in the foot of the page. By default the foot is set on the first page only. If you want it on all pages, put `\pagestyle{footer}` at the beginning of your document.

5.3 The oldstyle style

This style provides a CV with the addressblock in the left margin and the hint column to the right. The section headers are kept simple, without section bars. To allow for three columns the DIV value is increased.

6 Examples

For examples see the example files `komacv_example_<style>.pdf` that come with this class. They should be located in the `doc`-directory of the tree where the class is stored. The example file `komacv_example.tex` can be used to test the various possibilities `komacv` offers. Just remove (or add) comment signs and play around.

7 New CV styles

The flexibility of `komacv` makes it fairly easy to create new CV styles. If you have created a CV style of your own and want to share it with others you have several possibilities:

You can publish it on CTAN. Just make sure it will be installed in the `styles`-subdirectory of the `komacv`-directory (such as `tex/latex/komacv/styles`).

Or you can put it on GitHub (`salsod/komacv`) or send it to me by e-mail (`salome.soedergran@gmx.ch`) and I will include it in the next version of `komacv`.

For your personal use, you can put it either into the working directory of your .tex-file (your cv-file) or into your local texmf-tree. In the latter case, don't forget to run texhash on the directory to refresh your tex system.

8 Bugs, feature requests, and maintenance

Known issue: Inconsistent vertical space between multiline cvlistitems (`\cvlistitem`).

Feature request: A feature that has sometimes been asked for is the possibility of creating a cover letter based on `komacv` for a job application. This has not been implemented into `komacv` so far. The KOMA-Script now offers the possibility to create letters not only with the letter class `scrlettr2`, but also to load the package `scrletter` within any KOMA-class. This works also for `komacv`. If you're interested in creating a cover letter inside `komacv`, also have a look at Richard Grewe's extra package `komacv-rg` (see below, Acknowledgements).

Further testing and use will certainly make some bugs crawl out from the dark in which they hide from me until now. If you encounter bugs, errors or typos, or if you have suggestions how to improve the `komacv` class and the style files, please do not hesitate to contact me (in English or German) at salome.soedergran@gmx.ch. I am thankful for any suggestions that help improving `komacv` though I dare not promise to be always very speedy in publishing a new version. Computer stuff is something of rather low priority with me. So if you make a point of having bugs fixed as soon as possible please consider making your own contributions on GitHub ([salsod/komacv](https://github.com/salsod/komacv)) ...or to become the new maintainer of `komacv`.

9 Acknowledgements

Many thanks to Richard Grewe, Samuel W. Flint, Alexander Dietzel, Ulrike Fischer, Alexander Kränzlein, Matthias C. Schmidt, Damian Martinez Dreyer, Wolfgang Witt, and Sebastian Röder for their suggestions and help. I am also grateful to Andreas Bießmann, Simon Dreher, Paul Menzel and Dominik Waßenhoven who helped to improve the (now obsolete) `koma-moderncvclassic.sty`.

On CTAN you can find the bundle `komacv-rg` by Richard Grewe with extra features: “The `komacv-rg` bundle provides packages that aid in creating CVs based on the `komacv` class and creating related documents, such as cover letters and cover sheets for job applications. Concretely, the bundle consists of three packages: `komacv-addons`, `komacv-lco`, and `komacv-multilang`.” (The bug fixes presented in `komacv-addons` v0.9.2 found their way into `komacv` as of v1.1.2.) Many thanks for this great addition!

10 Implementation

Note: The code of the styles is not part of the file `komacv.cls` but is to be found in the style files `komacv-⟨stylename⟩.sty`, e.g. `komacv-classic.sty`.

10.1 The **komacv** class

Initialization

```
1 \providecommand*\mycolor{blue}
2 \RequirePackage{ifthen,kvoptions,calc,xparse,xstring}
```

Declare Options

```
3 \SetupKeyvalOptions{%
4 family=komacv,%
5 prefix=komacv@,%
6 setkeys=\kvsetkeys%
7 }
8 \DeclareStringOption[mycolor]{color}[mycolor]
9 \DeclareStringOption[x11names]{xcolor}[x11names]
10 \DeclareStringOption[classic]{style}[classic]
11 % \changes{v1.2}{xxxxx}{switch for position of acadtitle added}
12 \DeclareStringOption[below]{acadtitleposition}[below] % options: below, before, after
13 \DeclareBoolOption[true]{fontawesome}
14 \DeclareDefaultOption{\PassOptionsToClass{\CurrentOption}{scrartcl}}
```

Process Options

```
15 \ProcessKeyvalOptions{komacv} % evaluate keyval options
```

Load class

```
16 \LoadClass[a4paper,headings=normal,fontsize=11pt]{scrartcl}
```

Packages

```
17 \RequirePackage[\komacv@xcolor]{xcolor}
18 \RequirePackage{%
19 etoolbox,%
20 ifpdf,%
21 ifluatex,%
22 ifxetex,%
23 scrlayer-scrpage,%
24 marvosym,%
25 array,%
26 graphicx,%
27 microtype,%
28 enumitem,
29 hyperref%
30 }
31 \ifkomacv@fontawesome
32 \RequirePackage{fontawesome}
33 \fi
34 \RequirePackage[raggedrightboxes]{ragged2e}
35 \AtEndPreamble{%
36 \renewcommand\familydefault{\sfdefault}% without this, pdflatex produces error messages;
37 }
```

Colors

```

38 \definecolor{myblue}{rgb}{0.2,0.3,0.65}
39 \colorlet{mycolor}{myblue}
40 \AtEndPreamble{%
41 \renewcommand*\mycolor{\komacv@color}
42 \colorlet{colortheme}{\mycolor}% specified in documentclass option
43 \@ifundefinedcolor{headlinecolor}{%
44 \colorlet{@headlinecolor}{black}}{%
45 \colorlet{@headlinecolor}{headlinecolor}}
46 \@ifundefinedcolor{firstnamecolor}{%
47 \colorlet{@firstnamecolor}{black}}{%
48 \colorlet{@firstnamecolor}{firstnamecolor}}
49 \@ifundefinedcolor{familynamecolor}{%
50 \colorlet{@familynamecolor}{@firstnamecolor}}{%
51 \colorlet{@familynamecolor}{familynamecolor}}
52 \@ifundefinedcolor{acadtitlecolor}{%
53 \colorlet{@acadtitlecolor}{@firstnamecolor}}{%
54 \colorlet{@acadtitlecolor}{acadtitlecolor}}
55 \@ifundefinedcolor{addresscolor}{%
56 \colorlet{@addresscolor}{@firstnamecolor}}{%
57 \colorlet{@addresscolor}{addresscolor}}
58 \@ifundefinedcolor{quotecolor}{%
59 \colorlet{@quotecolor}{@firstnamecolor}}{%
60 \colorlet{@quotecolor}{quotecolor}}
61 \@ifundefinedcolor{secbarcolor}{%
62 \colorlet{@secbarcolor}{colortheme}}{%
63 \colorlet{@secbarcolor}{secbarcolor}}
64 \@ifundefinedcolor{seccolor}{%
65 \colorlet{@seccolor}{colortheme}}{%
66 \colorlet{@seccolor}{seccolor}}
67 \@ifundefinedcolor{subseccolor}{%
68 \colorlet{@subseccolor}{colortheme}}{%
69 \colorlet{@subseccolor}{subseccolor}}
70 \@ifundefinedcolor{hintcolor}{%
71 \colorlet{@hintcolor}{black}}{%
72 \colorlet{@hintcolor}{hintcolor}}
73 \@ifundefinedcolor{framecolor}{%
74 \colorlet{@framecolor}{colortheme}}{%
75 \colorlet{@framecolor}{framecolor}}
76 \@ifundefinedcolor{framebackcolor}{%
77 \colorlet{@framebackcolor}{white}}{%
78 \colorlet{@framebackcolor}{framebackcolor}}
79 } % end AtEndPreamble

```

Encoding and Fonts

```

80 \ifboolexpr{bool{xetex} or bool{luatex}}{%
81 \RequirePackage{fontspec}%
82 }{%
83 \RequirePackage[utf8]{inputenc}
84 \RequirePackage[T1]{fontenc}%
85 }

```

```

86 \newkomafont{headlinefont}{\fontsize{30}{32}\mdseries\upshape}
87 \newkomafont{firstnamefont}{\Huge\mdseries\upshape}
88 \newkomafont{familynamefont}{\usefontofkomafont{firstnamefont}}
89 \newkomafont{acadtitlefont}{\LARGE\mdseries\itshape}
90 \newkomafont{addressfont}{\normalsize\mdseries\itshape}
91 \newkomafont{quotefont}{\large\itshape}
92 \newkomafont{hintfont}{\}
93 \newkomafont{linkfont}{\}
94 \newkomafont{httplinkfont}{\}
95 \newkomafont{httpslinkfont}{\}
96 \newkomafont{emallinkfont}{\}
97 \newkomafont{commentmainfont}{\bfseries} % in \cvitemwithcomment
98 \newkomafont{commentfont}{\footnotesize\itshape} % in \cvitemwithcomment
99 \providecommand\sectionfont{\Large\sffamily\mdseries\upshape}
100 \providecommand\subsectionfont{\large\sffamily\mdseries\upshape}
101 \setkomafont{section}{\sectionfont}
102 \setkomafont{subsection}{\subsectionfont}

```

Lengths

```

103 \setlength\parindent{0pt}
104 \setlength\columnsep{10\p@}
105 \setlength\columnseprule{0\p@}
106 \newlength\@komacvtextwidth
107 \newlength\@hintscolwidth
108 \newlength\hintscolwidth
109 \setlength\hintscolwidth{0pt}
110 \newlength\@sepcolwidth
111 \newlength\sepcolwidth
112 \setlength\sepcolwidth{0pt}
113 \newlength\@maincolwidth
114 \newlength\maincolwidth
115 \setlength\maincolwidth{0pt}
116 \newlength\@quotewidth
117 \newlength\quotewidth
118 \setlength\quotewidth{0pt}
119 \newlength\@dbitemmaincolwidth
120 \newlength\dbitemmaincolwidth
121 \setlength\dbitemmaincolwidth{0pt}
122 \newlength\@listitemsymbolwidth
123 \newlength\listitemsymbolwidth
124 \setlength\listitemsymbolwidth{0pt}
125 \newlength\@listitemmaincolwidth
126 \newlength\listitemmaincolwidth
127 \setlength\listitemmaincolwidth{0pt}
128 \newlength\@listdbitemmaincolwidth
129 \newlength\listdbitemmaincolwidth
130 \setlength\listdbitemmaincolwidth{0pt}
131 \newlength\@titlepicwidth
132 \newlength\@titlesepwidth
133 \setlength\@titlesepwidth{0pt}

```

```

134 \newlength\titlesepwidth
135 \setlength\titlesepwidth{0pt}
136 \newlength\@mframepicshift
137 \newlength\mframepicshift
138 \setlength\mframepicshift{0pt}
139 \newlength\@commentmainlength
140 \newlength\@commentlength
141 \newlength\@titlenamewidth
142 \newlength\@titlenamemaxwidth
143 \newlength\titlenamemaxwidth
144 \setlength\titlenamemaxwidth{0pt}
145 \newlength\@titlenamefullwidth
146 \newlength\@titledetailwidth
147 \newlength\@infocolwidth
148 \newlength\infocolwidth
149 \setlength\infocolwidth{0pt}
150 \newlength\@sepinfocolwidth
151 \newlength\sepinfocolwidth
152 \setlength\sepinfocolwidth{0pt}
153 \newlength\komacvinfocolextrawidth % witout @ for use inside document (addmargin)
154 \newlength\@footerwidth
155 \setlength\@footerwidth{.6\textwidth}
156 \newlength\@fbboxwidth
157 \newlength\footerwidth
158 \setlength\footerwidth{0pt}
159 \newlength\@aftertitlevspace
160 \newlength\aftertitlevspace
161 \setlength\aftertitlevspace{0pt}
162 \newlength\@afterquotevspace
163 \newlength\afterquotevspace
164 \setlength\afterquotevspace{0pt}
165 \newlength\@afterelementsvspace
166 \newlength\afterelementsvspace
167 \newlength\@beforesecvspace
168 \newlength\beforesecvspace
169 \setlength\beforesecvspace{0pt}
170 \newlength\@aftersecvspace
171 \newlength\aftersecvspace
172 \setlength\aftersecvspace{0pt}
173 \newlength\@beforesubsecvspace
174 \newlength\beforesubsecvspace
175 \setlength\beforesubsecvspace{0pt}
176 \newlength\@aftersubsecvspace
177 \newlength\aftersubsecvspace
178 \setlength\aftersubsecvspace{0pt}
179 \newlength\beforesigvspace
180 \setlength\beforesigvspace{3cm}
181 \AtEndPreamble{%
182 % infocol (oldstyle)
183 \setlength{\@infocolwidth}{\infocolwidth}

```



```

184     \setlength{\@sepinfocolwidth}{\sepinfocolwidth}
185 \setlength\komacvinfocolextrawidth{\@infocolwidth+\@sepinfocolwidth}
186 \setlength\@komacvtextwidth{\textwidth-\komacvinfocolextrawidth}
187 % fboxextra (picture frame)
188 \newlength\@fboxextra
189 \setlength\@fboxextra{\fboxsep+\fboxrule}
190 % hintscolumn
191 \ifdimequal{\hintscolwidth}{0pt}{%
192     \setlength\@hintscolwidth{.2\@komacvtextwidth}
193 }{%
194     \setlength{\@hintscolwidth}{\hintscolwidth}%
195 }
196 % separatorcolumn
197 \ifdimequal{\sepcolwidth}{0pt}{%
198     \setlength\@sepcolwidth{2em}%
199 }{%
200     \setlength{\@sepcolwidth}{\sepcolwidth}%
201 }
202 % maincolumn
203 \ifdimequal{\maincolwidth}{0pt}{%
204 \setlength{\@maincolwidth}{\@komacvtextwidth-\@sepcolwidth-\@hintscolwidth}%
205 }{%
206     \setlength{\@maincolwidth}{\maincolwidth}%
207 }
208 % doubleitem
209 \ifdimequal{\dbitemmaincolwidth}{0pt}{%
210     \setlength{\@dbitemmaincolwidth}{%
211         \@maincolwidth-\@hintscolwidth-2\@sepcolwidth}%
212     \setlength{\@dbitemmaincolwidth}{0.5\@dbitemmaincolwidth}%
213 }{%
214     \setlength{\@dbitemmaincolwidth}{\dbitemmaincolwidth}%
215 }
216 % listitem
217 \ifdimequal{\listitemsymbolwidth}{0pt}{%
218     \settowidth{\@listitemsymbolwidth}{\listitemsymbol{}}~}%
219 }{%
220     \setlength{\@listitemsymbolwidth}{\listitemsymbolwidth}%
221 }
222 \setlength{\@listitemmaincolwidth}{\@maincolwidth-\@listitemsymbolwidth}%
223 % listdoubleitem
224 \ifdimequal{\listdbitemmaincolwidth}{0pt}{%
225 \setlength{\@listdbitemmaincolwidth}{\@maincolwidth-\@sepcolwidth-\@listitemsymbolwidth}%
226 \setlength{\@listdbitemmaincolwidth}{0.475\@listdbitemmaincolwidth}% %
227 }{%
228     \setlength{\@listdbitemmaincolwidth}{\listdbitemmaincolwidth}%
229 \setlength{\@listdbitemmaincolwidth}{0.475\@listdbitemmaincolwidth}% %
230 }
231 % quote
232 \ifdimequal{\quotewidth}{0pt}{%
233     \setlength{\@quotewidth}{0.65\textwidth}%

```

```

234     }{%
235         \setlength{\@quotewidth}{\quotewidth}%
236     }
237     \ifdimequal{\afterquotevspace}{0pt}{%
238         \setlength\@afterquotevspace{2\baselineskip}%
239     }{%
240         \setlength\@afterquotevspace{\afterquotevspace}%
241     }
242     % title
243     \ifundef{\@photoname}{% without picture:
244         \setlength\@aftertitlevspace{\aftertitlevspace}
245     }{% with picture:
246         \ifthenelse{%
247             \equal{\@photoframe}{frame} \OR
248             \equal{\@photoframe}{mframe}
249         }{% with frame:
250             \ifdimequal{\aftertitlevspace}{0pt}{%
251                 \setlength\@aftertitlevspace{1.5\@fboxextra}
252             }{%
253                 \setlength\@aftertitlevspace{\aftertitlevspace}
254             }
255         }{% without frame:
256             \setlength\@aftertitlevspace{\aftertitlevspace}
257         }%
258     }%
259     \ifundef{\@photoname}{}%
260     \ifdimequal{\titlesepwidth}{0pt}{%
261         \setlength\@titlesepwidth{\@sepcolwidth}
262     }{%
263         \setlength{\@titlesepwidth}{\titlesepwidth}
264     }
265 }
266 % afterelementsvspace
267 \ifdimequal{\afterelementsvspace}{0pt}{%
268     \setlength{\@afterelementsvspace}{0.25em}%
269 }{%
270     \setlength{\@afterelementsvspace}{\afterelementsvspace}%
271 }
272 % beforesecvspace
273 \ifdimequal{\beforesecvspace}{0pt}{%
274     \setlength{\@beforesecvspace}{3.5ex \@plus -1ex \@minus -.2ex}%
275 }{%
276     \setlength{\@beforesecvspace}{\beforesecvspace}%
277 }
278 % aftersecvspace
279 \ifdimequal{\aftersecvspace}{0pt}{%
280     \setlength{\@aftersecvspace}{2.3ex \@plus .2ex}%
281 }{%
282     \setlength{\@aftersecvspace}{\aftersecvspace}%
283 }

```

```

284 % beforesubsecvspace
285 \ifdimequal{\beforesubsecvspace}{0pt}{%
286 \setlength{\@beforesubsecvspace}{3.25ex\@plus -1ex \@minus -.2ex}%
287 }{
288 \setlength{\@beforesubsecvspace}{\beforesubsecvspace}%
289 }
290 % aftersubsecvspace
291 \ifdimequal{\aftersubsecvspace}{0pt}{%
292 \setlength{\@aftersubsecvspace}{1.5ex \@plus .2ex}%
293 }{%
294 \setlength{\@aftersubsecvspace}{\aftersubsecvspace}%
295 }
296 } % end AtEndPreamble

```

Symbols

```

297 \providecommand*\@addresssymbol{}
298 \providecommand*\addresssymbol{}
299 \providecommand*\@mobilesymbol{\upshape{\Mobilefone}~}
300 \providecommand*\mobilesymbol{}
301 \providecommand*\@phonesymbol{\upshape{\Telefon}~}
302 \providecommand*\phonesymbol{}
303 \providecommand*\@faxsymbol{\upshape{\FAX}~}
304 \providecommand*\faxsymbol{}
305 \providecommand*\@emailsymbol{\upshape{\Letter}~}
306 \providecommand*\emailsymbol{}
307 \providecommand*\@homepagesymbol{}
308 \providecommand*\homepagesymbol{}
309 \ifkomacv@fontawesome
310 \providecommand*\@twittersymbol{\upshape{\faTwitter}~}
311 \providecommand*\@githubsymbol{\upshape{\faGithub}~}
312 \providecommand*\@facebooksymbol{\upshape{\faFacebook}~}
313 \providecommand*\@linkedinsymbol{\upshape{\faLinkedin}~}
314 \else
315 \providecommand*\@twittersymbol{}
316 \providecommand*\@githubsymbol{}
317 \providecommand*\@facebooksymbol{}
318 \providecommand*\@linkedinsymbol{}
319 \fi
320 \providecommand*\twittersymbol{}
321 \providecommand*\githubsymbol{}
322 \providecommand*\facebooksymbol{}
323 \providecommand*\linkedinsymbol{}
324 \providecommand*\@fsymbol{~~~\textbullet~~~}
325 \providecommand*\fsymbol{}
326 \providecommand*\@listitemsymbol{\textcolor{colortheme}{\Neutral}~}
327 \providecommand*\listitemsymbol{}
328 \AtEndPreamble{%
329 \ifdefempty{\addresssymbol}{\}%
330 \renewcommand*\@addresssymbol{\addresssymbol}
331 }

```

```

332     \ifdefempty{\mobilesymbol}{}{%
333 \renewcommand*{\mobilesymbol}{\mobilesymbol}
334 }
335     \ifdefempty{\phonesymbol}{}{%
336 \renewcommand*{\phonesymbol}{\phonesymbol}
337 }
338     \ifdefempty{\faxsymbol}{}{%
339 \renewcommand*{\faxsymbol}{\faxsymbol}
340 }
341     \ifdefempty{\emailsymbol}{}{%
342 \renewcommand*{\emailsymbol}{\emailsymbol}
343 }
344     \ifdefempty{\homepagesymbol}{}{%
345 \renewcommand*{\homepagesymbol}{\homepagesymbol}
346 }
347     \ifdefempty{\twittersymbol}{}{%
348 \renewcommand*{\twittersymbol}{\twittersymbol}
349 }
350     \ifdefempty{\githubsymbol}{}{%
351 \renewcommand*{\githubsymbol}{\githubsymbol}
352 }
353     \ifdefempty{\facebooksymbol}{}{%
354 \renewcommand*{\facebooksymbol}{\facebooksymbol}
355 }
356     \ifdefempty{\linkedinsymbol}{}{%
357 \renewcommand*{\linkedinsymbol}{\linkedinsymbol}
358 }
359     \ifdefempty{\fsymbol}{}{%
360 \renewcommand*{\fsymbol}{\fsymbol}
361 }
362     \ifdefempty{\listitemsymbol}{}{%
363 \renewcommand*{\listitemsymbol}{\listitemsymbol}
364 }
365 } % end \AtEndPreamble

```

Personal data

```

366 \providecommand*{\firstname}{}
367 \providecommand*{\familyname}{}
368 \providecommand*{\acadtitle}{}
369 \providecommand*{\addressstreet}{}
370 \providecommand*{\addresscity}{}
371 \providecommand*{\address}[2]{\addressstreet{#1}\addresscity{#2}}
372 \providecommand*{\mobile}{}
373 \providecommand*{\phonenr}{}
374 \providecommand*{\faxnr}{}
375 \providecommand*{\email}{}
376 \providecommand*{\homepage}{}
377 \providecommand*{\twitter}{}
378 \providecommand*{\github}{}
379 \providecommand*{\facebook}{}

```

```

380 \providecommand*\linkedin{}
381 \providecommand*\extrainfo{}
382 \providecommand*\cvquote{}

```

Itemize

With enumitem

```

383 \newlist{compactitem}{itemize}{3}
384 \newlist{compactenum}{enumerate}{3}
385 \newlist{compactdesc}{description}{3}
386 \setlist[compactitem,compactenum,compactdesc]{%
387     topsep=0pt,%
388     partopsep=0pt,%
389     itemsep=0pt,%
390     parsep=0pt,%
391     leftmargin=*%
392 } % end setlist
393 \AtEndPreamble{%
394 \setlist[compactitem,1]{label=\@listitemsymbol}
395 \setlist[compactitem,2]{label={\textcolor{colortheme}\textendash}}
396 \setlist[compactitem,3]{label={\textcolor{colortheme}\textperiodcentered}}
397 \setlist[compactenum,1]{label={\textcolor{colortheme}{\arabic*.}}}
398 \setlist[compactenum,2]{label={\textcolor{colortheme}{\alph*.}}}
399 \setlist[compactenum,3]{label={\textcolor{colortheme}{\roman*.}}}
400 } % end AtEndPreamble

```

Picture

```

401 \newlength\@photowidth
402 \providecommand{\photo}[3][{}]{%
403     \providecommand{\@photoframe}{#1}%
404     \setlength{\@photowidth}{#2}%
405     \providecommand{\@photoname}{#3}}

```

Headline

```

406 \providecommand\@headlinealignment{}
407 \providecommand\@headlinetype{none}
408 \providecommand\@headlinecontent{}
409 \ProvideDocumentCommand{\headline}{0{c} m o}
410 {
411     \renewcommand\@headlinealignment{#1}
412     \renewcommand\@headlinetype{#2}
413     \renewcommand\@headlinecontent{
414         \IfNoValueTF {#3}
415         {
416             \ifstrequal{#2}{title}{\par\headlinestyle{Curriculum Vitae}}{}
417             \ifstrequal{#2}{name}{\par\firstnamestyle{\firstname}\ \familynamestyle{\familyname}}
418             {\headlinestyle{#3}}
419         }
420     }
421     \providecommand\setheadlinealignment{%

```

```

422         \ifdefstring{\@headlinealignment}{l}{\RaggedRight}{%
423         \ifdefstring{\@headlinealignment}{r}{\RaggedLeft}{\Centering}}
424     }
425     \providecommand\setheadlinetypename{%
426     \ifdefstring{\@headlinetype}{name}{%
427         \setheadlinealignment
428         \headlinestyle{\@headlinecontent}
429     }{}
430     }
431     \providecommand\setheadlinetypetitle{%
432     \ifdefstring{\@headlinetype}{title}{%
433         \setheadlinealignment
434         \headlinestyle{\@headlinecontent}
435     }{}
436     }
437     \providecommand\setheadline{%
438         \setheadlinetypename
439         \setheadlinetypetitle
440     }
441     % \end{macrocode}
442     %
443     %\subsubsection*{Title/Head}
444     % \begin{macrocode}
445     \newif\if@firstdetailselement\@firstdetailselementtrue
446     \providecommand*{\@titledetailsnewline}{
447         \if@firstdetailselement%
448             \@firstdetailselementfalse%
449         \else%
450             \[.4ex]
451         \fi%
452     }
453     \renewcommand\maketitle{\csexpandonce{@cvttitle\komacv@style}}

```

Lastpage

```

454     \RequirePackage{lastpage}
455     \providecommand*{\totalpagemark}{% page and pagetotal
456     \usefontofkomafont{pagenumber}\pageref{LastPage}%
457     }

```

Element styles

```

458     \providecommand*\headlinestyle[1]{%
459         \usefontofkomafont{headlinefont}%
460         \textcolor{@headlinecolor}{#1}}
461     \providecommand*\firstnamestyle[1]{%
462         \usefontofkomafont{firstnamefont}%
463         \textcolor{@firstnamecolor}{#1}}
464     \providecommand*\familynamestyle[1]{%
465         \usefontofkomafont{familynamefont}%
466         \textcolor{@familynamecolor}{#1}}
467     \providecommand*\acadttilestyle[1]{%

```

```

468         \usefontofkomafont{acadtitlefont}%
469         \textcolor{@acadtitlecolor}{#1}}
470     \providecommand*{\addressstyle}[1]{%
471         \usefontofkomafont{addressfont}%
472         \textcolor{@addresscolor}{#1}}
473     \providecommand*{\quotestyle}[1]{%
474         \usefontofkomafont{quote font}%
475         \textcolor{@quote color}{#1}}
476     \providecommand*{\hintstyle}[1]{%
477         \usefontofkomafont{hintfont}%
478         \textcolor{@hintcolor}{#1}}
479     \providecommand*{\sectionstyle}[1]{%
480         \usefontofkomafont{section}%
481         \textcolor{@seccolor}{#1}}
482     \providecommand*{\subsectionstyle}[1]{%
483         \usefontofkomafont{subsection}%
484         \textcolor{@subseccolor}{#1}}

```

Elements

cvitem

usage: `\cvitem[spacing]{header}{text}`

```

485     \providecommand*{\cvitem}[3][\@afterelements vspace]{%
486         \begin{tabular}{%
487             @{}>{\raggedleft\arraybackslash}p{\@hintscolwidth}%
488             @{\hspace{\@sepcolwidth}}p{\@maincolwidth}@{}%
489             }%
490             \hintstyle{#2} & {\@minipagetrue #3}%
491         \end{tabular}\@{#1}%
492     }

```

cvdoubleitem

usage: `\cvdoubleitem[spacing]{header1}{text1}{header2}{text2}`

```

493     \providecommand*{\cvdoubleitem}[5][\@afterelements vspace]{%
494         \cvitem[#1]{#2}{%
495             \begin{minipage}[t]{\@dbitemmaincolwidth}#3\end{minipage}%
496             \hspace*{\@sepcolwidth}%
497             \begin{minipage}[t]{\@hintscolwidth}%
498                 \noindent\raggedleft\hintstyle{#4}
499             \end{minipage}%
500             \hspace*{\@sepcolwidth}%
501             \begin{minipage}[t]{\@dbitemmaincolwidth}%
502                 \noindent #5
503             \end{minipage}%
504         }%
505     }

```

cvlistitem

usage: `\cvlistitem[label]{item}`

```

506     \providecommand*{\cvlistitem}[2][\@afterelements vspace]{%

```

```

507         \cvitem[#1]{}%
508         \@listitemsymbol%
509         \hfill %
510         \begin{minipage}[t]{.95\@listitemmaincolwidth}%
511         #2%
512         \end{minipage}%
513     }%
514 }

```

cvlistdoubleitem

usage: \cvlistdoubleitem[<label>]{<item1>}{<item2>}

```

515     \providecommand*\cvlistdoubleitem[3][\@afterelements vspace]{%
516     \cvitem[#1]{}%
517     \@listitemsymbol%
518     \hfill %
519     \begin{minipage}[t]{.9\@listdbitemmaincolwidth}%
520     #2%
521     \end{minipage}%
522     \hspace*{.9\@sepcolwidth}
523     \ifstrepty{#3}{-}{%
524     \@listitemsymbol%
525     \hfill %
526     \begin{minipage}[t]{.9\@listdbitemmaincolwidth}%
527     #3%
528     \end{minipage}
529     }%
530     }%
531 }

```

cventry

usage: \cventry[<spacing>]{<years>}{<degree/job title>}{<institution/employer>}{<localization>}{<grade/...>}{<comment/job description>}

```

532     \providecommand*\cventry[7][\@afterelements vspace]{%
533     \cvitem[#1]{#2}{%
534     {\bfseries#3}%
535     \ifstrepty{#4}{-}{, {\itshape#4}}}%
536     \ifstrepty{#5}{-}{, #5}%
537     \ifstrepty{#6}{-}{, #6}%
538     .%
539     \ifx&#7&%
540     \else{%
541     \newline{}\begin{minipage}[t]{\linewidth}%
542     \small#7%
543     \end{minipage}%
544     }%
545     \fi%
546     }%
547 }

```


cventryflex

usage: e.g. `\cventryflex[<spacing>]{<years>}{<degree/job title>}{<institution/employer>}`
`{<localization>}{<grade/...>}{<comment/job description>}`

```
548 \providecommand\cventryflexA{\bfseries}
549 \providecommand\cventryflexB{}
550 \providecommand\cventryflexC{}
551 \providecommand\cventryflexD{}
552 \providecommand\cventryflexE{\small}
553 \providecommand*\cventryflex[7][\@afterelements\vspace]{%
554   \cvitem[#1]{#2}{%
555     {\cventryflexA #3}%
556     \ifstrepty{#4}{\cventryflexB #4}%
557     \ifstrepty{#5}{\cventryflexC #5}%
558     \ifstrepty{#6}{\cventryflexD #6}%
559     \ifx#7&%
560     \else{%
561       \newline}\begin{minipage}[t]{\linewidth}%
562       \cventryflexE #7%
563       \end{minipage}%
564     }%
565     \fi%
566   }%
567 }
568
569 %
570 % \paragraph{cvitemwithcomment}~\\%
571 % usage: \cvitemwithcommentusage
572 % \begin{macrocode}
573 \newbox{\@commentmainbox}
574 \providecommand*\cvitemwithcomment[4][\@afterelements\vspace]{%
575   \savebox{\@commentmainbox}{\usefontofkomafont{commentmainfont} #3}%
576   \settowidth\@commentmainlength{\usebox{\@commentmainbox}}%
577   \setlength{\@commentlength}{%
578     \@maincolwidth-\@sepcolwidth-\@commentmainlength%
579   }%
580   \cvitem[#1]{#2}{%
581     \begin{minipage}[t]{\@commentmainlength}%
582     \usefontofkomafont{commentmainfont} #3%
583     \end{minipage}%
584     \hfill%
585     \begin{minipage}[t]{\@commentlength}%
586     \raggedleft\usefontofkomafont{commentfont} #4%
587     \end{minipage}%
588   }%
589 }
```

link

usage: `\link[<optional text>]{<link>}`

```
590 \providecommand*\link[2][{}]{%
```

```

591         \ifstrempy{#1}{%
592             \href{#2}{\usefontofkomafont{linkfont}{#2}}{%
593                 \href{#2}{\usefontofkomafont{linkfont}{#1}}}%
594     }

```

httplink

usage: \httplink[*<optional text>*]{*<link>*}

```

595     \providecommand*\croplink{}
596     \providecommand*\httplink}[2][]{%
597         \renewcommand\croplink{\StrDel{#2}{http://}}
598         \ifstrempy{#1}{%
599             \IfSubStr{#2}{http:}{\href{#2}}{\href{http://#2}}{%
600                 \usefontofkomafont{httplinkfont}\croplink}%
601             }{%
602                 \IfSubStr{#2}{http:}{\href{#2}}{\href{http://#2}}{%
603                     \usefontofkomafont{httplinkfont}{#1}}
604             }

```

httpslink

usage: \httpslink[*<optional text>*]{*<link>*}

```

605     \providecommand*\httpslink}[2][]{%
606         \renewcommand\croplink{\StrDel{#2}{https://}}
607         \ifstrempy{#1}{%
608             \IfSubStr{#2}{https:}{\href{#2}}{\href{https://#2}}{%
609                 \usefontofkomafont{httpslinkfont}\croplink}%
610             }{%
611                 \IfSubStr{#2}{https:}{\href{#2}}{\href{https://#2}}{%
612                     \usefontofkomafont{httpslinkfont}{#1}}
613             }

```

emaillink

usage: \emaillink[*<optional text>*]{*<link>*}

```

614     \providecommand*\emaillink}[2][]{%
615         \ifstrempy{#1}{%
616             \href{mailto:#2}{\usefontofkomafont{emaillinkfont}{#2}}{%
617                 \href{mailto:#2}{\usefontofkomafont{emaillinkfont}{#1}}}%
618     }

```

Signature

usage: \Signature[*<width>*]

```

619     \providecommand*\signaturecity{}
620     \providecommand\Signature[1][0.382\textwidth]{%
621         \par
622         \begin{tabular}{@{}p{#1}@{}}
623             \rule{0pt}{\beforesigvspace}\\ \hline
624             \signaturecity, \today\hfill
625         \end{tabular}}

```

Sections

626 % Depending on the style in use (see style descriptions).

Hypersetup

```
627       \hypersetup{
628       breaklinks,
629       unicode,
630       colorlinks     = false,
631       pdfborder      = {0 0 .3},
632       pdfstartview   = FitH,
633       pdfstartpage   = 1,
634       pdfcreator     = \LaTeX{},
635       pdfproducer    = \LaTeX{}
636     }
637       \urlstyle{same}
638       \providecommand*\@citebordercolor{}
639       \providecommand*\citebordercolor{\@citebordercolor}
640       \providecommand*\@filebordercolor{}
641       \providecommand*\filebordercolor{\@filebordercolor}
642       \providecommand*\@linkbordercolor{}
643       \providecommand*\linkbordercolor{\@linkbordercolor}
644       \providecommand*\@menubordercolor{}
645       \providecommand*\menubordercolor{\@menubordercolor}
646       \providecommand*\@runbordercolor{}
647       \providecommand*\runbordercolor{\@runbordercolor}
648       \providecommand*\@urlbordercolor{}
649       \providecommand*\urlbordercolor{\@urlbordercolor}
650       \providecommand*\allbordercolors{}
651       \providecommand*\pdfauthor{}
652       \providecommand*\pdfsubject{}
653       \providecommand*\pdftitle{}
654       \providecommand*\pdfkeywords{}
655       \AtEndPreamble{%
656       \providecommand*\@allbordercolors{colortheme}
657       \ifdefempty{\allbordercolors}{-}{\renewcommand*\@allbordercolors{\allbordercolors}}
658       \providecommand*\@pdfauthor{\firstname~\familyname}
659       \ifdefempty{\pdfauthor}{-}{\renewcommand*\@pdfauthor{\pdfauthor}}
660       \providecommand*\@pdfsubject{\firstname~\familyname}
661       \providecommand*\pdfsubject{\@pdfsubject}
662       \providecommand*\@pdftitle{\title~\firstname~\familyname}
663       \providecommand*\pdftitle{\@pdftitle}
664       \providecommand*\@pdfkeywords{\firstname~\familyname{} curriculum-vit\ae{} CV{}}
665       \providecommand*\pdfkeywords{\@pdfkeywords}
666       \hypersetup{%
667       allbordercolors = \@allbordercolors,
668       citebordercolor = \citebordercolor,
669       filebordercolor = \filebordercolor,
670       linkbordercolor = \linkbordercolor,
671       menubordercolor = \menubordercolor,
```

```

672         runbordercolor = \runbordercolor,
673         urlbordercolor = \urlbordercolor,
674         pdfauthor       = \@pdfauthor,
675         pdfsubject      = \pdfsubject,
676         pdftitle        = \pdftitle,
677         pdfkeywords     = \pdfkeywords,
678     }
679 } % end AtEndPreamble

```

Varia

```

680     \AtBeginDocument{%
681         \raggedbottom
682     } % End AtBeginDocument
683     \clearpaairofpagestyles

```

Load style

```

684     \RequirePackage{komacv-\komacv@style}

```

10.2 The classic style

Fonts

```

685     \addtokomafont{firstnamefont}{\sffamily}
686     \addtokomafont{acadtitlefont}{\sffamily}
687     \addtokomafont{addressfont}{\sffamily}
688     \addtokomafont{hintfont}{\sffamily}

```

Lengths

```

689     \AtEndPreamble{%
690         %\AtBeginDocument{
691             % mframepicshift
692             \ifdimequal{\mframepicshift}{0pt}{%
693                 \setlength\@mframepicshift{.5\photowidth+\@fbboxextra}
694             }{%
695                 \setlength\@mframepicshift{\mframepicshift}
696             }
697     } % end \AtBeginDocument

```

Title / Head

```

698     \AtEndPreamble{%
699         \ifdimequal{\titlenamemaxwidth}{0pt}{%
700             \setlength{\@titlenamemaxwidth}{.525\textwidth}
701         }{
702             \setlength\@titlenamemaxwidth{\titlenamemaxwidth}
703         }
704     }
705     \providecommand\@cvttitleclassic{%
706         %% set \cs{@titlenamemaxwidth} to the full name length, capped by \cs{@titlenamemaxwidth}
707         \settowidth{\@titlenamefullwidth}{\firstnamestyle{\firstname~}\familynamestyle{\familyname}}
708         \ifdimless{\@titlenamemaxwidth}{\@titlenamefullwidth}{%
709             \setlength{\@titlenamewidth}{\@titlenamemaxwidth}

```

```

710     }{%
711         \setlength{\@titlenamewidth}{\@titlenamefullwidth}
712     }
713     % set titlenamedetailwidth
714     \setlength{\@titledetailwidth}{\textwidth-\@titlenamewidth-\@titlesepwidth}%
715     \ifundef{\@photoname}{ }{% else
716         \ifdefstring{\@photoframe}{frame}{%
717             \setlength{\@titledetailwidth}{\@titledetailwidth-\@photowidth-
718 2\@fboxextra}
719             \setlength{\@titledetailwidth}{.99\@titledetailwidth} % avoid overfullbox warning
720         }{% else
721             \ifdefstring{\@photoframe}{mframe}{%
722                 \setlength{\@titledetailwidth}{\@titledetailwidth-\@mframepicshift}%
723                 \setlength{\@titledetailwidth}{.99\@titledetailwidth} % avoid overfullbox warning
724             }{% picture but no frame
725                 \setlength{\@titledetailwidth}{\@titledetailwidth-\@photowidth}
726                 \setlength{\@titledetailwidth}{.99\@titledetailwidth} % avoid overfullbox warning
727             }
728         }%
729         % name and title
730         \ifdef{\headline}{\setheadline%\[\[3ex]
731             \par\vspace{3ex}}{}
732         \begin{minipage}[b]{\@titlenamewidth}%
733             \RaggedRight
734             \ifdefstring{\@headlinetype}{name}{\hfill\mbox{}}{%
735                 \ifdefstring{\komacv@acadttitleposition}{below}{%
736                     \firstnamestyle{\firstname~}%
737                     \familynamestyle{\familyname}%
738                     \ifdefempty{\acadttitle}{ }{%
739                         \par\bigskip\acadttitlestyle{\acadttitle}}%
740                     }{}
741                     \ifdefstring{\komacv@acadttitleposition}{before}{%
742                         \ifdefempty{\acadttitle}{ }\acadttitlestyle{\acadttitle~}%
743                         \firstnamestyle{\firstname~}%
744                         \familynamestyle{\familyname}%
745                     }{}
746                     \ifdefstring{\komacv@acadttitleposition}{after}{%
747                         \firstnamestyle{\firstname~}%
748                         \familynamestyle{\familyname}%
749                         \ifdefempty{\acadttitle}{ }\{,~\acadttitlestyle{\acadttitle}}%
750                     }{}
751                 }
752             \end{minipage}%
753             % optional data
754             \begin{minipage}[b]{\@titledetailwidth}%
755                 \raggedleft\addressstyle{%
756                     \ifdefempty{\addressstreet}{ }{%
757                         \@titledetailsnewline%
758                         \@addresssymbol\addressstreet%

```

```

759         \ifdefempty{\addresscity}{\{%
760             \@titledetailsnewline\addresscity}}%
761     \ifdefempty{\mobile}{\{%
762         \@titledetailsnewline\@mobilesymbol~\mobile}%
763     \ifdefempty{\phonenr}{\{%
764         \@titledetailsnewline\@phonesymbol~\phonenr}%
765     \ifdefempty{\faxnr}{\{%
766         \@titledetailsnewline\@faxsymbol~\faxnr}%
767     \ifdefempty{\email}{\{%
768         \@titledetailsnewline\@emailsymbol\emailink{\email}}}%
769     \ifdefempty{\homepage}{\{%
770         \@titledetailsnewline\@homepagesymbol%
771         \IfSubStr{\homepage}{https}{%
772             \httpslink{\homepage}}{\%
773             \httplink{\homepage}}}%
774     \ifdefempty{\twitter}{\{%
775         \@titledetailsnewline\@twittersymbol~\twitter}%
776     \ifdefempty{\github}{\{%
777         \@titledetailsnewline\@githubsymbol~\github}%
778     \ifdefempty{\facebook}{\{%
779         \@titledetailsnewline\@facebooksymbol~\facebook}%
780     \ifdefempty{\linkedin}{\{%
781         \@titledetailsnewline\@linkedsymbol~\linkedin}%
782     \ifdefempty{\extrainfo}{\{%
783         \@titledetailsnewline\extrainfo}%
784     }%
785 \end{minipage}
786 % optional photo
787 \ifundef{\@photoname}{\{% with picture:
788     \hspace*{\@titlesepwidth}%
789     \ifthenelse{%
790         \equal{\@photoframe}{frame} \OR
791         \equal{\@photoframe}{mframe}
792     }{\% with frame:
793         \begin{minipage}[b]{\@photowidth}%
794             \fcolorbox{\@framecolor}{\@framebackcolor}{%
795                 \includegraphics[width=\@photowidth]{\@photoname}}%
796         \end{minipage}}{\% without frame:
797         \begin{minipage}[b]{\@photowidth}
798             \includegraphics[width=\@photowidth]{\@photoname}
799         \end{minipage}}}%
800 \\\[\@aftertitlevspace]
801 % optional quote
802 \ifundef{\cvquote}{\{%
803     {\centering
804         \begin{minipage}{\@quotewidth}%
805             \centering\quotestyle{\cvquote}%
806         \end{minipage}}\\\[\@afterquotevspace]%
807     }
808 }%

```

```
809 }
```

Sections

```
810 \setcounter{secnumdepth}{1}
811 \RedeclareSectionCommand
812 [
813     beforeskip=\@beforeseccvspace,
814     afterskip=\@afterseccvspace,
815     font=\color{@seccolor}\sectionfont
816 ]{section}
817 \renewcommand*\thesection{\color{@secbarcolor}\rule{@hintscolwidth}{1ex}\hspace{-
818 1ex}\hspace{@sepcolwidth}}
819 \RedeclareSectionCommand
820 [
821     beforeskip=\@beforesubseccvspace,
822     afterskip=\@aftersubseccvspace,
823     indent=\dimexpr@sepcolwidth+@hintscolwidth,
824     font=\color{@subseccolor}\subsectionfont
825 ]{subsection}
```

Elements

As defined by the class.

10.3 The casual style

Fonts

```
825 \addtokomafont{firstnamefont}{\sffamily\fontsize{38}{40}}
826 \addtokomafont{acadtitlefont}{\sffamily}
827 \addtokomafont{addressfont}{\sffamily\small}
828 \addtokomafont{hintfont}{\sffamily}
```

Footer

```
829 \newsavebox\@fboxa
830 \newsavebox\@fboxb
831 \providecommand*\@sboxa[1]{\sbox\@fboxa{#1}}
832 \providecommand*\@sboxb[1]{\sbox\@fboxb{#1}}
833 \providecommand*\@uboxa{\usebox\@fboxa}
834 \providecommand*\@uboxb{\usebox\@fboxb}
835 \providecommand*\@flushf{\strut\@uboxa\@sboxa{}\@sboxb{}}
836 \providecommand*\addtofooter[2][\@fsymbol]{%
837     \@sboxb{\@uboxa{#1#2}}%
838     \settowidth\@fboxwidth{\@uboxb}%
839     \ifdimgreater{\@footerwidth}{\@fboxwidth}{%
840         \@sboxa{\@uboxb}
841     }{%
842         \@flushf\
843         \@sboxa{#2}
844         \@sboxb{#2}
845     }
```

```

846 }
847 \ifdimequal{\footerwidth}{0pt}{\setlength\@footerwidth{\footerwidth}}
848 \defpagestyle{footer}
849 {}{}{}% head definition (empty)
850 {% foot definition
851 {}{}% definition for twoside layout
852 {% definition for oneside layout
853 \hspace*{\fill}%
854 \parbox{\@footerwidth}{%
855 \centering%
856 \color{\@addresscolor}\usefontofkomafont{addressfont}%
857 \ifdefempty{\addressstreet}{}{%
858 \addtofooter[]{\@addresssymbol\addressstreet}%
859 \ifdefempty{\addresscity}{}{%
860 \addtofooter[~---]{\addresscity}}%
861 \ifdefempty{\mobile}{}{%
862 \addtofooter{\@mobilesymbol\mobile}}%
863 \ifdefempty{\phonenr}{}{%
864 \addtofooter{\@phonesymbol\phonenr}}
865 \ifdefempty{\faxnr}{}{%
866 \addtofooter{\@faxsymbol\faxnr}}%
867 \ifdefempty{\email}{}{%
868 \addtofooter{\@emailsymbol\emailink{\email}}}
869 \ifdefempty{\homepage}{}{%
870 \addtofooter{\@homepagesymbol%
871 \IfSubStr{\homepage}{https}{%
872 \httpslink{\homepage}}{%
873 \httplink{\homepage}}}%}%
874 \ifdefempty{\twitter}{}{%
875 \addtofooter{\@twittersymbol\twitter}}%
876 \ifdefempty{\github}{}{%
877 \addtofooter{\@githubsymbol\github}}%
878 \ifdefempty{\facebook}{}{%
879 \addtofooter{\@facebooksymbol\facebook}}%
880 \ifdefempty{\linkedin}{}{%
881 \addtofooter{\@linkedsymbol\linkedin}}%
882 \ifdefempty{\extrainfo}{}{%
883 \addtofooter{\extrainfo}}\@flushf%
884 }% Ende parbox
885 \hspace*{\fill}%
886 \makebox[0pt][r]{\pagemark/\totalpagemark}
887 }% end definition onesided layout
888 }% end footer definition

```

Head / title

```

889 \providecommand\@cvttitlecasual{%
890 \newbox{\@picbox}
891 \savebox{\@picbox}{%
892 \ifundef{\@photoname}{}{% with picture:
893 \ifthenelse{%

```



```

894         \equal{\@photoframe}{frame} \OR
895         \equal{\@photoframe}{mframe}
896     }{% with frame:
897         \fcolorbox{@framecolor}{@framebackcolor}{%
898             \includegraphics[width=\@photowidth]{\@photoname}%
899         }% end fcolorbox
900     }{% without frame:
901         \includegraphics[width=\@photowidth]{\@photoname}%
902     }% end ifdefstring frame
903 }% end ifundef photoname
904 }% end savebox picbox
905 \settowidth\@titlepicwidth{\usebox{\@picbox}}
906 \setlength\@titlenamewidth{\textwidth-\@titlesepwidth-\@titlepicwidth}
907 \ifdefstring{\@headlinetype}{title}{\setheadlinetypetitle}{%
908     \usebox{\@picbox}%
909     \hspace*{\@titlesepwidth}%
910     \parbox[b]{\@titlenamewidth}{%
911         \ifdefstring{\@headlinetype}{name}{\setheadlinetypename}{%
912             \raggedleft
913             \ifdefstring{\komacv@acadttitleposition}{below}{%
914                 \firstnamestyle{\firstname~}%
915                 \familynamestyle{\familyname}
916             }{}
917             \ifdefstring{\komacv@acadttitleposition}{before}{%
918                 \ifdefempty{\acadttitle}{\acadttitlestyle{\acadttitle~}}%
919                 \firstnamestyle{\firstname~}%
920                 \familynamestyle{\familyname}
921             }{}
922             \ifdefstring{\komacv@acadttitleposition}{after}{%
923                 \firstnamestyle{\firstname~}%
924                 \familynamestyle{\familyname}%
925                 \ifdefempty{\acadttitle}{\acadttitlestyle{,\~\acadttitle}}
926             }{}
927         }
928         \\
929         \raggedleft\color{@firstnamecolor}\rule{\@titlenamewidth}{.25ex}\par
930     }% end parbox
931     \vspace{\@afterttitlevspace}
932     %% optional acadtitle
933     \ifdefempty{\acadttitle}{%
934         \ifdefstring{\@headlinetype}{name}{%
935             \ifdefstring{\komacv@acadttitleposition}{below}{%
936                 \raggedleft\acadttitlestyle{\acadttitle}\par
937             }{}
938         }{}
939     }% \[2.5em]%
940     %% optional quote
941     \ifdefempty{\cvquote}{%
942         {\centering
943         \begin{minipage}{\@quotewidth}%

```

```

944         \centering\quotestyle{\cvquote}
945         \end{minipage}\[\@afterquotevspace]%
946     }
947 }%
948 }% end \@cvtitle-casual
949 \AtBeginDocument{%
950     \thispagestyle{footer}
951 } % end \AtBeginDocument

```

Sections

```

952 \setcounter{secnumdepth}{1}
953 \RedeclareSectionCommand
954 [
955     beforeskip=\@beforeseccvspace,
956     afterskip=\@afterseccvspace,
957     font=\color{@seccolor}\sectionfont
958 ]{section}
959 \renewcommand*{thesection}{\color{@secbarcolor}\rule{@hintscolwidth}{1ex}\hspace{-
1ex}\hspace{@sepcolwidth}}
960 \RedeclareSectionCommand
961 [
962     beforeskip=\@beforesubseccvspace,
963     afterskip=\@aftersubseccvspace,
964     indent=\dimexpr@sepcolwidth+\@hintscolwidth,
965     font=\color{@subseccolor}\subsectionfont
966 ]{subsection}

```

10.4 The oldstyle style

Lengths

```

967 \KOMAOptions{DIV=15}
968 \setlength{\hintscolwidth}{3cm}

```

Fonts

```

969 \addtokomafont{addressfont}{\small}
970 \addtokomafont{hintfont}{\bfseries}

```

Colors

```

971 \colorlet{addresscolor}{gray}

```

Symbols

```

972 \renewcommand*{\listitemsymbol}{\labelitemi~}
973 \renewcommand*{\addresssymbol}{}
974 \renewcommand*{\mobilesymbol}{\textbf{M}~}
975 \renewcommand*{\phonesymbol}{\textbf{T}~}
976 \renewcommand*{\faxsymbol}{\textbf{F}~}
977 \renewcommand*{\emailsymbol}{\textbf{E}~}
978 \renewcommand*{\homepagesymbol}{}

```

Infocolumn and title

```

979 \setlength{\infocolwidth}{3.5cm}
980 \setlength{\sepinfocolwidth}{2em}
981 \providecommand\@infocontent{%
982 \ifdefempty{\addressstreet}{}{%
983 \@titledetailsnewline%
984 \@addresssymbol\addressstreet%
985 \ifdefempty{\addresscity}{}{%
986 \@titledetailsnewline\addresscity}}%
987 \ifdefempty{\mobile}{}{%
988 \@titledetailsnewline\@mobilesymbol~\mobile}%
989 \ifdefempty{\phonenr}{}{%
990 \@titledetailsnewline \@phonesymbol\phonenr}%
991 \ifdefempty{\faxnr}{}{%
992 \@titledetailsnewline\@faxsymbol\faxnr}%
993 \ifdefempty{\email}{}{%
994 \@titledetailsnewline\@emailsymbol\email\link{\email}}%
995 \ifdefempty{\homepage}{}{%
996 \@titledetailsnewline\@homepagesymbol%
997 \IfSubStr{\homepage}{https}{%
998 \httpslink{\homepage}}{%
999 \httplink{\homepage}}}%
1000 \ifdefempty{\twitter}{}{%
1001 \@titledetailsnewline\@twittersymbol~\twitter}%
1002 \ifdefempty{\github}{}{%
1003 \@titledetailsnewline\@githubsymbol~\github}%
1004 \ifdefempty{\facebook}{}{%
1005 \@titledetailsnewline\@facebooksymbol~\facebook}%
1006 \ifdefempty{\linkedin}{}{%
1007 \@titledetailsnewline\@linkedsymbol~\linkedin}%
1008 \ifdefempty{\extrainfo}{}{%
1009 \@titledetailsnewline\extrainfo}%
1010 } % end \@infocontent
1011 \providecommand{\@makeinfo}{%
1012 \newbox{\@infobox}%
1013 \savebox{\@infobox}{%
1014 \parbox[b]{\@infocolwidth}{%
1015 % put the first line on the same baseline as the first sectiontitle:
1016 {\usefontofkomafont{section}
1017 \vspace*{1.6ex}
1018 }
1019 \raggedleft\addressstyle{%
1020 \@infocontent%
1021 }
1022 }% end parbox
1023 } % end savebox \@infobox%
1024 \newlength{\@infoheight}%
1025 \setlength{\@infoheight}{%
1026 \totalheightof{\usebox{\@infobox}}}%
1027 }%
1028 \usebox{\@infobox}\vspace*{-\@infoheight}%

```

```

1029 \par\nointerlineskip%
1030 \vspace*{-\parskip}%
1031 \vspace*{-\@afterseccvspace}
1032 }% end \providecommand \@makeinfo
1033 \providecommand{\@cvttitleoldstyle}{%
1034 % optional picture box
1035 \newbox{\@picbox}
1036 \savebox{\@picbox}{%
1037 \ifundef{\@photoname}{}% with picture:
1038 \ifthenelse{%
1039 \equal{\@photooframe}{frame} \OR
1040 \equal{\@photooframe}{mframe}
1041 }{% with frame:
1042 \fcolorbox{@framecolor}{@framebackcolor}{%
1043 \includegraphics[width=\@photowidth]{\@photoname}%
1044 }% end fcolorbox
1045 }{% without frame:
1046 \includegraphics[width=\@photowidth]{\@photoname}%
1047 }% end ifdefstring frame
1048 }% end ifundef photoname
1049 }% end savebox picbox
1050 \settowidth\@titlepicwidth{\usebox{\@picbox}}
1051 \setlength\@titlenamewidth{\textwidth-\@titlesepwidth-\@titlepicwidth}
1052 \ifdefstring{\@headlinetype}{title}{\setheadlinetypetitle\@{20pt}\par}}{}
1053 \begin{minipage}[b]{\@titlenamewidth}%
1054 \ifdefstring{\@headlinetype}{name}{\setheadlinetypename\par}{%
1055 \ifdefstring{\komacv@acadttitleposition}{below}{%
1056 \firstnamestyle{\firstname~}%
1057 \familynamestyle{\familyname}%
1058 \ifdefempty{\acadttitle}{\,%
1059 \@[1.25em]\acadttitlestyle{\acadttitle}}%
1060 }{}%
1061 \ifdefstring{\komacv@acadttitleposition}{before}{%
1062 \ifdefempty{\acadttitle}{\acadttitlestyle{\acadttitle~}}%
1063 \firstnamestyle{\firstname~}%
1064 \familynamestyle{\familyname}%
1065 }{}
1066 \ifdefstring{\komacv@acadttitleposition}{after}{%
1067 \firstnamestyle{\firstname~}%
1068 \familynamestyle{\familyname}%
1069 \ifdefempty{\acadttitle}{\{,~\acadttitlestyle{\acadttitle}}%
1070 }{}
1071 }
1072 \end{minipage}%
1073 \hspace{\@titlesepwidth}
1074 % optional photo
1075 \usebox{\@picbox}%
1076 \@[{\@aftertitlevspace}%
1077 % optional quote
1078 \ifdefempty{\cvquote}{\,%

```

```

1079         {\centering%
1080          \begin{minipage}{\@quotewidth}%
1081           \centering\quotestyle{\cvquote}%
1082          \end{minipage}}\[\@afterquotevspace]%
1083     }%
1084 }%
1085 % address info box
1086 \@makeinfo
1087 \par
1088 \begin{addmargin}{\komacvinfolextrowwidth}{0pt}
1089   } % end \@cvttitleoldstyle
1090 \AtEndDocument{%
1091   \end{addmargin}
1092 }

```

Sections

```

1093 \setcounter{secnumdepth}{0}
1094 \RedeclareSectionCommand
1095 [
1096   beforeskip=\@beforesecvspace,
1097   afterskip=\@aftersecvspace,
1098   font=\color{@seccolor}\sectionfont
1099 ]{section}
1100 \RedeclareSectionCommand
1101 [
1102   beforeskip=\@beforesubsecvspace,
1103   afterskip=\@aftersubsecvspace,
1104   font=\color{@subseccolor}\subsectionfont
1105 ]{subsection}

```

Elements

```

1106 \renewcommand*{\cvitem}[3][\@afterelementsvspace]{%
1107   \begin{tabular}{%
1108     @{}p{\@maincolwidth}%
1109     @{\hspace{\@sepcolwidth}}p{\@hintscolwidth}@{}%
1110   }%
1111   {#3} & \RaggedRight\hintstyle{#2}%
1112   \end{tabular}}\[#1]%
1113 }
1114 \renewcommand*{\cvdoubleitem}[5][\@afterelementsvspace]{%
1115   \cvitem[#1]{#4}{%
1116     \begin{minipage}[t]{\@dbitemmaincolwidth}#3\end{minipage}%
1117     \hspace*{\@sepcolwidth}%
1118     \begin{minipage}[t]{\@hintscolwidth}%
1119       \noindent\raggedleft\hintstyle{#2}
1120     \end{minipage}%
1121     \hspace*{\@sepcolwidth}%
1122     \begin{minipage}[t]{\@dbitemmaincolwidth}%
1123       \noindent #5
1124     \end{minipage}%

```

1125 }%
1126 }

Change History

1.2	
General: Covering letter implemented, <code>\cventryflex</code> added, switch for position of acadtitle added, <code>\Signature</code> added, adjustments for alignment of headline	1
v1.0	
General: Initial version	1
v1.0.1	
General: Installation problem fixed	1
v1.1	
<code>\headline</code> : Default font size changed, due to new font <code>headlinefont</code>	4
New macro headline, and new correspondent elements	
<code>headlinestyle</code> , <code>headlinecolor</code> , <code>headlinefont</code>	4
General: <code>\usefontofkomafont</code> instead of <code>\usekomafont</code> , avoiding unintended side effects	14
Added macros and symbols for social media	19
Definition of <code>\section</code> and <code>\subsection</code> changed, mainly to avoid pagebreaks (all styles)	31
Lengths <code>\beforeseccvspace</code> , <code>\afterseccvspace</code> , <code>\beforesubseccvspace</code> and <code>\aftersubseccvspace</code> added to <code>\section</code> and <code>\subsection</code> definitions	27
Linebreaks (hyphenation and no justification in narrow lines)	
improved with <code>ragged2e</code> .	13
New user length <code>\titlenamemaxwidth</code>	15
Option headline added; user length <code>\titlenamemaxwidth</code> ;	
behavior of sections and subsections improved; several bugfixes	1
<code>scrlayer-scrpage</code> instead of the obsolete <code>scrpage2</code>	13
Vertical space between name and academic title adjusted	21
v1.1.1	
General: Typos in the documentation and minor bugs fixed	1
v1.1.2	
<code>\headline</code> : Improved implementation of headline. Caution changed syntax	4
General: <code>\httpslink</code> added.	10
Improved implementation of headline, minor bug fixes, <code>httpslink</code> added, <code>fontawesome-switch</code> added	1
New implementation	21
v1.2	
<code>\Signature</code> : New feature <code>\Signature</code> , contributed by Richard Grewe	10
General: <code>\Signature</code> and <code>\signaturecity</code> added	26
Length <code>\beforesigvspace</code> added	6
New user length <code>\beforesigvspace</code>	15
Variable position of acadtitle	21, 28, 32, 34
vxxxx	
General: New command <code>\cventryflex</code>	25

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