

# The komacv-lco Package\*

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November 2, 2018

## 1 Introduction

The `komacv-lco` package provides means for unifying the input data to a CV made with `komacv` and to a cover letter made with `scrlltr2`. Concretely:

- When the `komacv-lco` package is used within a document of the `scrlltr2` class (e.g., a cover letter), it defines KOMA variables `komacv`'s data fields such as `github` and `linkedin`. Values for these variables can therefore be specified in letter-class-option (LCO) files (see the KOMA manual for more on these files).
- When the `komacv-lco` package is used within CV of the `komacv` class, it provides a macro for loading LCO files and setting the `komacv` variables based on these macros.
- When the `komacv-lco` package is used with neither `komacv` nor `scrlltr2` (e.g., a cover sheet), it provides the KOMA variables and macros for accessing them in the document.

## 2 Usage

The following code shows some basic usage of the `komacv-lco` package. The package provides the `\LoadLetterOption` macro for loading various variables. The content of the variables can be displayed, e.g., via the `\usekomavar` macro. The `komacv-lco` package provides these macros, whose interfaces originate from the `scrlltr2` class, for use with other classes than `scrlltr2` – particularly including `komacv`.

```
\usepackage{komacv-lco}
\LoadLetterOption{demo}

\begin{document}
\usekomavar{fromname} \\
\usekomavar*{fromphone} \usekomavar{fromphone} \\
\usekomavar*{fromgithub} \usekomavar{fromgithub}
\end{document}
```

John Doe  
☎ 555 123456  
🌐 [github.com/JohnDoe](https://github.com/JohnDoe)

\*This document corresponds to `komacv-lco` v0.9b, dated 2018/11/02. The package is available online at <http://www.ctan.org/pkg/komacv-rg> and <https://github.com/Ri-Ga/komacv-rg>.

```

\ProvidesFile{demo.lco}
\KOMAOPTIONS{fromemail=true,fromphone=false,frommobilephone=true}

\setkomavar{fromfirstname}{John}
\setkomavar{fromfamilyname}{Doe}
\setkomavar{fromaddressstreet}{Main Street 1}
\setkomavar{fromaddresscity}{12345 Springfield}

\setkomavar{fromphone}[\Telefon~]{555\ 123456}
\setkomavar{frommobilephone}[\Mobilefone~]{555\ 98765}
\setkomavar{fromemail}[\Letter~]{john.doe@example.com}
\setkomavar{place}{Springfield}

\setkomavar{fromgithub}{\httpslink{github.com/JohnDoe}}
\setkomavar{fromlinkedin}{\httpslink{linkedin.com/in/JohnDoe}}
\setkomavar{fromurl}{www.example.com/~Doe}

```

Figure 1: `demo.lco`

The content of the LCO file, `demo.lco`, is displayed in [Figure 1](#). This file shows many of the variables defined. The remainder of this section provides the complete list of macros and variables made available by `komacv-lco`.

## 2.1 Variables

The `komacv-lco` package provides a set of variables that can be set in LCO files and can be used in `scrlltr2` letters, `komacv` CVs, and other  $\LaTeX$  documents. [Table 2](#) shows the set of variables in alphabetic order.

- Most of the variables correspond to a macro that the `komacv` class defines and that is displayed in the second column of the table. The `komacv-lco` package ensures that when the value of a variable is set (via `\setkomavar`), the corresponding `komacv` macro is updated as well. Note that the macros are only defined in documents that use the `komacv` class. Documents based on another class can access the respective variables via `\usekomavar`.
- Many of the variables are also defined by the `scrlltr2` class. The third column of the table shows which of the variables these are. The `komacv-lco` package makes all of the variables available for use in documents that use the `scrlltr2` class.
- Some of the variables have a symbol assigned to them, as shown in the fourth column of the table. The symbols are those that the `komacv` class uses.
- Some of the variables have KOMA options of the same name. These variables can be used for disabling the display of the respective variable’s content.
- Two variables (from `scrlltr2`) have default values that are based on other, more fine-grained variables (from `komacv`). These variables are marked in the rightmost column of the table. Concretely:

variable name	komacv macro	scrlltr2	symbol	option	default
fromacadtitle	\acadtitle	no		no	
fromaddress	\address	yes		no	*
fromaddresscity	\addresscity	no		no	
fromaddressstreet	\addressstreet	no		no	
fromemail	\email	yes	✉	yes	
fromextrainfo	\extrainfo	no		yes	
fromfax	\faxnr	yes	FAX	yes	
fromfacebook	\facebook	no	f	yes	
fromfamilyname	\familyname	no		no	
fromfirstname	\firstname	no		no	
fromgithub	\github	no	🐙	yes	
fromlinkedin	\linkedin	no	in	yes	
frommobilephone	\mobile	yes	📞	yes	
fromname		yes		no	**
fromphone	\phonenr	yes	☎	yes	
fromtwitter	\twitter	no	🐦	yes	
fromurl	\homepage	yes		yes	
location		yes		no	
place		yes		no	

Table 2: Variables for use in letter options

- \* The ‘fromaddress’ variable by default is set to a two-line combination of the contents of the ‘fromaddressstreet’ and ‘fromaddresscity’ variables.
- \*\* The ‘fromname’ variable by default is set to the concatenation of the contents of the ‘fromfirstname’ and the ‘fromfamilyname’ variables.

## 2.2 Macros

The following macros imitate the behavior of `scrlltr2`. For a documentation of the macros, we refer to the KOMA manual.

- `\newkomavar` [*description*] {*name*}
- `\newkomavar*` [*description*] {*name*}
- `\setkomavar` {*name*} [*description*] {*content*}
- `\setkomavar*` {*name*} {*description*}
- `\usekomavar` [*command*] {*name*}
- `\usekomavar*` [*command*] {*name*}
- `\ifkomavareempty` {*name*} {*true-code*} {*false-code*}
- `\ifkomavareempty*` {*name*} {*true-code*} {*false-code*}

- `\ifkomavar{<name>}{<true-code>}{<>false-code>}`
- `\LoadLetterOption{<name>} \LoadLetterOptions{<names>}`

The following macros of the `komacv` class are provided by `komacv-lco`.

- `\emaillink[<link-text>]{<link>}`
- `\httplink[<link-text>]{<link>}`

The following additional macros are defined by `komacv-lco`.

- `\ifkomavarenabled{<name>}{<true-code>}{<>false-code>}`  
This macro executes `<true-code>` if the variable with name `<name>` is enabled (through the KOMA option of the same name) and executes `<>false-code>` otherwise.
- `\httpslink[<link-text>]{<link>}`  
This macro is analogous to `\httplink`, just for HTTPS links.

### 3 Limitations

The current version of `komacv-lco` has the following known limitations. Some of them might be eliminated in future versions.

- Enabled variables that are not already defined by `scrلتtr2` are *not* displayed in the head of the letter. If you want the additional variables to be displayed, you currently have to set the `firsthead` variable manually (see the `scrلتtr2` documentation).
- In a document based on the `komacv` class, KOMA options for enabling/disabling a variable must be set *before* the content of the variable is set. Only then the respective `komacv` macro is set appropriately (i.e., set empty if the variable is disabled and set to the respective content when enabled). In short, as shown also in [Figure 1](#): First use `\KOMAOPTIONS` and afterwards use `\setkomavar`.

## 4 Implementation

We use the `etoolbox` package for simplifying the code and use the `scrkbase` package for KOMA options and related macros. The `marvosym` and `fontawesome` packages provide the symbols for some of the variables defined by this package.

```
1 \RequirePackage{etoolbox}
2 \RequirePackage{scrkbase}
3 \RequirePackage{marvosym,fontawesome}
```

### 4.1 KOMA Variables Interface

The “public” interface consists of the macros `\newkomavar`, `\setkomavar`, and `\usekomavar`, which we define to have the same arguments as the counterparts defined by `scrtr2`.

`\newkomavar` The `\newkomavar[⟨description⟩]{⟨name⟩}` macro defines a new KOMA variable with name `⟨name⟩` and description `⟨description⟩`. If `⟨description⟩` is omitted, no description is set. The `\newkomavar*[⟨description⟩]{⟨name⟩}` macro is defined equivalent to the un-starred macro.

```
4 \providecommand{\newkomavar}{%
5   \@ifstar{\kcvlco@newkomavar}{\kcvlco@newkomavar}}
6 \newcommand{\kcvlco@newkomavar}[2][\relax]{%
7   \ifkomavar{#2}%
8     {\kcvlco@error{KOMA variable ‘#2’ already defined}}%
9     {\csdef{kcvlco@@var@#2}{\empty}}%
10    \begingroup\def\@tempa{#1}\def\@tempb{\relax}%
11    \ifx\@tempa\@tempb\endgroup\else
12    \endgroup\csdef{kcvlco@@desc@#2}{#1}\fi}
```

`\setkomavar` The `\setkomavar{⟨name⟩}[⟨description⟩]{⟨content⟩}` macro sets the content of the variable with name `⟨name⟩` to content `⟨content⟩` and sets the description of the variable to `⟨description⟩`. The `\setkomavar*{⟨name⟩}{⟨description⟩}` sets only the description of the variable with name `⟨name⟩` and sets it to `⟨description⟩`.

```
13 \providecommand{\setkomavar}{%
14   \@ifstar{\kcvlco@setkomadesc}{\kcvlco@setkomavar}}
15 \newcommand{\kcvlco@setkomavar}[1]{\kcvlco@onlyifdef{#1}{\@ifnextchar[%
16   {\kcvlco@setkomavar@i{#1}}{\kcvlco@setkomavar@i{#1}[\relax]}}}}
17 \long\def\kcvlco@setkomavar@i#1[#2]#3{%
18   \csdef{kcvlco@@value@#1}{#3}%
19   \csuse{scr@#1@postsetvar}%
20   \begingroup\def\@tempa{#2}\def\@tempb{\relax}%
21   \ifx\@tempa\@tempb\endgroup\else
22   \endgroup\csdef{kcvlco@@desc@#1}{#2}\fi}
23 \newcommand{\kcvlco@setkomadesc}[2]{%
24   \csdef{kcvlco@@desc@#1}{#2}}
```

`\usekomavar` The `\usekomavar[⟨command⟩]{⟨name⟩}` macro expands to the `⟨command⟩` applied to the content of the KOMA variable `⟨name⟩`. If omitted, `⟨command⟩` is

the identity. The `\usekomavar*[\langle command \rangle]{\langle name \rangle}` macro is analogous to `\usekomavar` except that the description of the variable is used rather than the content.

```

25 \providecommand{\usekomavar}{%
26   \@ifstar{\kcvlco@usekomadesc}{\kcvlco@usekomavar}}
27 \newcommand{\kcvlco@usekomavar}[2][\@firstofone]{%
28   \kcvlco@onlyifdef{#2}{#1}{\csuse{kcvlco@@value@#2}}}}
29 \newcommand{\kcvlco@usekomadesc}[2][\@firstofone]{%
30   \kcvlco@onlyifdef{#2}{#1}{\csuse{kcvlco@@desc@#2}}}}

```

`\ifkomavareempty` The `\ifkomavareempty{\langle name \rangle}{\langle true-code \rangle}{\langle false-code \rangle}` expands to `\langle true-code \rangle` if the content of the KOMA variable `\langle name \rangle` is empty, and expands to `\langle false-code \rangle` otherwise. The `\ifkomavareempty*{\langle name \rangle}{\langle true-code \rangle}{\langle false-code \rangle}` is analogous to `\ifkomavareempty`, except that the description of the variable is checked for emptiness rather than the content.

```

31 \providecommand{\ifkomavareempty}{%
32   \@ifstar{\kcvlco@ifemptydesc}{\kcvlco@ifemptyvar}}
33 \newcommand{\kcvlco@ifemptyvar}[1]{\ifcsvoid{kcvlco@@value@#1}}
34 \newcommand{\kcvlco@ifemptydesc}[1]{\ifcsvoid{kcvlco@@desc@#1}}

```

`\ifkomavar` The `\ifkomavar{\langle name \rangle}{\langle true-code \rangle}{\langle false-code \rangle}` macro checks whether the KOMA variable `\langle name \rangle` is defined and expands to `\langle true-code \rangle` (positive case) or `\langle false-code \rangle` (negative case) respectively.

```

35 \providecommand{\ifkomavar}[1]{\ifcsdef{kcvlco@@var@#1}}

```

`\ifkomavarenabled` The `\ifkomavarenabled{\langle name \rangle}{\langle true-code \rangle}{\langle false-code \rangle}` macro checks whether the corresponding KOMA option for `\langle name \rangle` exists and is set to `false`. In this case, the macro expands to `\langle false-code \rangle` and otherwise expands to `\langle true-code \rangle`.

```

36 \providecommand{\ifkomavarenabled}[1]{\csuse{kcvlco@@enab@#1}}

```

## 4.2 Letter Options Interface

`\LoadLetterOption` The `\LoadLetterOption{\langle name \rangle}` loads options from the file with filename `\langle name \rangle` (an “lco”-file, but without the file extension).

`\LoadLetterOptions` The `\LoadLetterOptions{\langle names \rangle}` loads options from the files in the comma-separated list `\langle names \rangle` of file names (again without “lco” extension).

```

37 \providecommand\LoadLetterOption[1]{\input{#1.lco}}
38 \providecommand\LoadLetterOptions[1]{\forcsvlist{\LoadLetterOption}{#1}}

```

## 4.3 URL Formatting

`\emaillink` The `\emaillink[\langle text \rangle]{\langle link \rangle}` macro, analogously to komacv’s `\emaillink` macro, provides a means for typesetting a “mailto” link.

```

39 \providecommand*\emaillink}[2][{}]{%
40   \ifstrempy{#1}{%
41     \href{mailto:#2}{\usefontofkomafont{emaillinkfont}{#2}}}{%

```

```

42 \href{mailto:#2}{\usefontofkomafont{emallinkfont}#1}}
43 \IfExistskomafont{emallinkfont}{\newkomafont{emallinkfont}{}}

```

`\httplink` The `\httplink[text]{link}` macro, analogously to `komacv`'s `\httplink` macro, provides a means for typesetting an HTTP link.

```

44 \providecommand*\httplink[2] [] {%
45 \ifstrempy{#1}{%
46 \href{http://#2}{\usefontofkomafont{httplinkfont}#2}}{%
47 \href{http://#2}{\usefontofkomafont{httplinkfont}#1}}
48 \IfExistskomafont{httplinkfont}{\newkomafont{httplinkfont}{}}

```

`\httpslink` The `\httpslink[text]{link}` macro, analogously to `komacv`'s `\httplink` macro, provides a means for typesetting an HTTPS link.

```

49 \providecommand*\httpslink[2] [] {%
50 \ifstrempy{#1}{%
51 \href{https://#2}{\usefontofkomafont{httplinkfont}#2}}{%
52 \href{https://#2}{\usefontofkomafont{httplinkfont}#1}}

```

#### 4.4 Registering KOMA Variables with `komacv` Macros

`\kcvlco@newvar` The `\kcvlco@newvar[description]{KOMAv}{CVmacro}{conditional}` macro provides the KOMA variable `KOMAv`. If `conditional` is provided, a Boolean `\KOMAoptions` variable named `KOMAv` is registered. This Boolean is stored in `ifconditional` (as registered with `\newif`). The macro connects `KOMAv` with the `komacv` macro `CVmacro`. The connection establishes that when `KOMAv` is changed, the `CVmacro` is updated (though *not* vice versa).

```

53 \newcommand\kcvlco@newvar[4] [\relax] {%
54 \ifkomavar{#2}%
55 {\begingroup\def\@tempa{#1}\def\@tempb{\relax}%
56 \ifx\@tempa\@tempb\endgroup\else
57 \endgroup\setkomavar*{#2}{#1}\fi}
58 {\newkomavar[#1]{#2}}%
59 \ifstrempy{#4}%
60 {\csdef{kcvlco@enab@#2}{\ifbool{true}}}%
61 {\csdef{kcvlco@enab@#2}{\ifbool{#4}\KOMA@ifkey{#2}{#4}}%

```

We use the `postsetvar` hook of KOMA, which we also implement in our `\setkomavar` surrogate.

```

62 \@ifclassloaded{komacv}{%
63 \ifstrempy{#4}%
64 {\csappto{scr@#2@postsetvar}{\ifkomavarempy{#2}%
65 {\let#3=\empty}}%
66 {\kcvlco@storekomavar{#2}{#3}}}%
67 {\csappto{scr@#2@postsetvar}{\ifkomavarempy{#2}%
68 {\let#3=\empty}}%
69 {\ifbool{#4}{\kcvlco@storekomavar{#2}{#3}{\let#3=\empty}}}}%
70 \csuse{scr@#2@postsetvar}{}}

```

## 4.5 Internal Helper Macros

<code>\kcvlco@error</code>	The <code>\kcvlco@error{&lt;message&gt;}</code> macro displays the given error <code>&lt;message&gt;</code> . 71 <code>\providecommand{\kcvlco@error}[1]{%</code> 72 <code>\PackageError{komacv-lco}{#1}{}}</code>
<code>\kcvlco@errundef</code>	The <code>\kcvlco@errundef{&lt;name&gt;}</code> macro displays an error message for KOMA variable <code>&lt;name&gt;</code> not being defined. <code>&lt;message&gt;</code> . 73 <code>\providecommand{\kcvlco@errundef}[1]{%</code> 74 <code>\kcvlco@error{KOMA variable ‘#1’ undefined}}</code>
<code>\kcvlco@onlyifdef</code>	The <code>\kcvlco@onlyifdef{&lt;name&gt;}{&lt;code&gt;}</code> macro displays an error message if KOMA variable <code>&lt;name&gt;</code> is undefined and expands to <code>&lt;code&gt;</code> otherwise. <code>&lt;message&gt;</code> . 75 <code>\providecommand{\kcvlco@onlyifdef}[2]{%</code> 76 <code>\ifkomavar{#1}{#2}{\kcvlco@errundef{#1}}</code>
<code>\kcvlco@storekomavar</code>	The <code>\kcvlco@storekomavar{&lt;name&gt;}{&lt;macro&gt;}</code> macro stores the content of the KOMA variable <code>&lt;name&gt;</code> into the macro <code>&lt;macro&gt;</code> . 77 <code>\newcommand{\kcvlco@storekomavar}[2]{\letcs#2{kcvlco@value#1}}</code>

## 4.6 Declaration of Concrete Variables

**Shared variables** The following variables are shared by `scrlltr2` and `komacv`. The conditionals used in the last argument to `\kcvlco@newvar` are taken over from `scrlltr2`.

```
78 \kcvlco@newvar [\Telefon]{fromphone}{\phonenr}{@phone}
79 \kcvlco@newvar [\Mobilefone]{frommobilephone}{\mobile}{@mobilephone}
80 \kcvlco@newvar [\FAX]{fromfax}{\faxnr}{@fax}
81 \kcvlco@newvar [\Letter]{fromemail}{\email}{@email}
82 \kcvlco@newvar {fromurl}{\homepage}{@www}
```

**scrlltr2 variables** The following variables are `scrlltr2`-only.

```
83 \ifkomavar{fromname}{}\newkomavar{fromname}
84 \setkomavar{fromname}{%
85 \usekomavar{fromfirstname}~\usekomavar{fromfamilyname}}
86 \ifkomavar{fromaddress}{}\newkomavar{fromaddress}
87 \setkomavar{fromaddress}{%
88 \usekomavar{fromaddressstreet}\\ \usekomavar{fromaddresscity}}
89 \ifkomavar{place}{}\newkomavar{place}
90 \ifkomavar{location}{}\newkomavar{location}
```

**komacv variables** The following variables are `komacv`-only.

```
91 \kcvlco@newvar{fromfirstname}{\firstname}{}
92 \kcvlco@newvar{fromfamilyname}{\familyname}{}
93 \kcvlco@newvar{fromacadtitle}{\acadtitle}{}
94 \kcvlco@newvar{fromaddressstreet}{\addressstreet}{}
95 \kcvlco@newvar{fromaddresscity}{\addresscity}{}

```



```

96 \kcvlco@newvar[\faTwitter]{fromtwitter}{\twitter}{kcvlco@twitter}
97 \kcvlco@newvar[\faGithub]{fromgithub}{\github}{kcvlco@github}
98 \kcvlco@newvar[\faFacebook]{fromfacebook}{\facebook}{kcvlco@facebook}
99 \kcvlco@newvar[\faLinkedin]{fromlinkedin}{\linkedin}{kcvlco@linkedin}
100 \kcvlco@newvar{fromextrainfo}{\extrainfo}{kcvlco@extrainfo}

```

## Change History

v0.9	v0.9b
General: Initial version . . . . . 1	General: Package author's name change . . . . . 1

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