

# The `simplecv` class\*

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December 16, 2010

## 1 Introduction

The `simplecv` document class is intended to provide a simple yet elegant way to write your curriculum vitae (resume). This is a repackaging of the `cv` class that has been available with L<sup>A</sup>T<sub>E</sub>X for a long time. The change of name has been made necessary by the existence of another `cv` class on CTAN.

Before I delve into the details, I would like to thank Amir Karger, Reuben Thomas and Dekel Tsur for their help and tips.

## 2 Basic Usage

### 2.1 Class options

The document class accepts some options (along with the usual `article` class ones). The first set allows to select a style (a set of fonts):

`sf`    `sf`    (default) produce title and headers in sans serif fonts;  
`plain`   `plain`   produce all output with roman fonts.

The rest of the options may be useful according to one's tastes.

`notopicbreak`   `notopicbreak`   do not add a line break after long topic labels;  
`contbibnum`    `contbibnum`   let the numbering of bibliography items be continuous when there are several thebibliography environments;  
`titleabove`    `titleabove`   output the title above the left and right headers, not below;  
`topictitle`    `topictitle`   let the first paragraph after each `\item` have font `\topictitlefont`, and therefore act as a kind of title.

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\*This document corresponds to `simplecv` v1.6, dated 2007/04/22.

## 2.2 The header of the CV

The macros below can be used to typeset the top of the CV.

<code>\lefthead</code>	<code>\lefthead[<i>&lt;pos&gt;</i>]{<i>&lt;text&gt;</i>}</code> defines what should appear in the upper left of the first page. <i>&lt;text&gt;</i> may contain <code>\\</code> to break lines. <i>&lt;pos&gt;</i> can be <code>l</code> , <code>r</code> or <code>c</code> and specifies the horizontal alignment (default is <code>l</code> ).
<code>\righthead</code>	<code>\righthead[<i>&lt;pos&gt;</i>]{<i>&lt;text&gt;</i>}</code> is like <code>\lefthead</code> , but for the upper right of the first page.
<code>\title</code>	<code>\title{<i>&lt;text&gt;</i>}</code> defines a title, that will appear centered below the headers (or above, if the <code>titleabove</code> option is used). <code>\maketitle</code> actually typesets the header.
<code>\maketitle</code>	

## 2.3 Topics

The CV is divided in topics (and in some cases subtopics). In order to introduce these, the `\section` and `\subsection` macros are reused.

<code>\section</code>	<code>\section{<i>&lt;text&gt;</i>}</code> gives a title for a new topic of the CV and <code>\subsection{<i>&lt;text&gt;</i>}</code> does the same for a sub-topic. There are no other sectioning levels.
<code>\subsection</code>	
<code>topic</code>	The <code>topic</code> environment begins an itemize-like environment where the argument of <code>\item[]</code> is typeset in font <code>\topiclabelfont</code> . A line break is automatically inserted if the label is too long to fit in the margin (this can be controlled by option <code>notopicbreak</code> ).

## 2.4 Miscellaneous

`thebibliography` The `simplecv` document class also has some support for bibliography. You can use the `thebibliography` environment as usual, in particular with BibTeX. The output is similar to the `topic` environment. If you separate your bibliography into several sections, you may want to use the `contbibnum` document class option.

Note that this class also has support for right-to-left languages, such as hebrew (courtesy Dekel Tsur).

## 3 Customization

You can modify directly the fonts used in the document by using the following macros. They take one parameter which is the font changing command.

<code>\headerfont</code>	<code>\headerfont</code> the font used in both headers. Defaults to sans serif.
<code>\titlefont</code>	<code>\titlefont</code> the font used for the title. Defaults to LARGE sans-serif semi bold condensed.
<code>\sectionfont</code>	<code>\sectionfont</code> the font used by <code>\section</code> when beginning a new topic. Defaults to sans-serif semi bold condensed.
<code>\subsectionfont</code>	<code>\subsectionfont</code> the font used by <code>\subsection</code> when beginning a new topic. Defaults to sans-serif semi bold condensed.

<code>\topiclabelfont</code>	<code>\topiclabelfont</code> the font used for the items' labels. Defaults to sans-serif slanted.
<code>\topictitlefont</code>	<code>\topictitlefont</code> the font used for the items' titles (with option <code>topictitle</code> ). Defaults to sans-serif slanted.
You can modify the following parameter using <code>\renewcommand</code>	
<code>\topicmargin</code>	<code>\topicmargin</code> the left margin inside topics. Defaults to 20% of the column width ( <code>0.20\columnwidth</code> ).

## 4 The Implementation

The fonts used in the layout

```

\sectionfont
\subsectionfont
\topiclabelfont
\topictitlefont
\headerfont
\titlefont
1 <{*class>
2 \newcommand{\sectionfont}[1]{\def\cv@sec@fnt{#1}}
3 \newcommand{\subsectionfont}[1]{\def\cv@ssec@fnt{#1}}
4 \newcommand{\topiclabelfont}[1]{\def\cv@tlab@fnt{#1}}
5 \newcommand{\topictitlefont}[1]{\def\cv@ttit@fnt{#1}}
6 \newcommand{\headerfont}[1]{\def\cv@hd@fnt{#1}}
7 \newcommand{\titlefont}[1]{\def\cv@tit@fnt{#1}}
for compatibility
8 \let\itemfont=\topiclabelfont

Some document class options.
9 \DeclareOption{sf}{
10   \sectionfont{\sffamily\fontseries{sbc}\selectfont}
11   \subsectionfont{\sffamily\fontseries{sbc}\selectfont}
12   \topiclabelfont{\sffamily\slshape}
13   \topictitlefont{\sffamily\slshape}
14   \headerfont{\sffamily}
15   \titlefont{\sffamily\fontseries{sbc}\selectfont\LARGE}
16 }
17 \DeclareOption{plain}{
18   \sectionfont{\bfseries}
19   \subsectionfont{\bfseries}
20   \topiclabelfont{\itshape}
21   \topictitlefont{\itshape}
22   \headerfont{}
23   \titlefont{\bfseries\LARGE}
24 }
25 \newif\if@cv@topic@title \@cv@topic@titlefalse
26 \DeclareOption{topictitle}{
27   \@cv@topic@titletrue
28 }
29 \newif\if@cv@topic@break \@cv@topic@breaktrue

```

```

30 \DeclareOption{notopicbreak}{
31   \@cv@topic@breakfalse
32 }
33 \newif\if@cv@cont@bib@num \@cv@cont@bib@numfalse
34 \DeclareOption{contbibnum}{
35   \@cv@cont@bib@numtrue
36   \newcounter{cv@save@bib@num}
37 }
38 \newif\if@cv@title@above \@cv@title@abovefalse
39 \DeclareOption{titleabove}{
40   \@cv@title@abovetrue
41 }
42 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
43 \ExecuteOptions{sf,letterpaper,10pt,oneside,onecolumn,final}
44 \ProcessOptions
45 \LoadClass{article}

```

Support for RTL (Hebrew). This will be defined and set by babel for RtL languages, but we define it here for the benefit of others.

```
46 \newif\if@rl
```

**\leftheaderr** The left and right headers. These are just saved in macros for use by **\maketitle**.  
**\rightheaderr**

```

47 \newcommand{\leftheaderr}[2][1]{\def\cv@lh@lr{#1}\def\cv@lh{#2}}
48 \newcommand{\rightheaderr}[2][1]{\def\cv@rh@lr{#1}\def\cv@rh{#2}}

```

**\title** The title (like “Curriculum Vitae” or the name of the author). It is just saved in a macro for use by **\maketitle**.

```
49 \renewcommand{\title}[1]{\def\cv@tit{#1}}
```

Default to empty.

```
50 \leftheaderr{}\rightheaderr{}\title{}
```

**\maketitle** And now a command to actually show the headers

```

51 \newcommand{\cv@header}[2]{%
52   \if@rl%
53     \begin{tabular}[t]{t}{\cv@hd@fnt\beginR{#1}\endR}}%
54   \else%
55     \begin{tabular}[t]{t}{\cv@hd@fnt{#1}}}%
56   \fi%
57   #2%
58   \end{tabular}}
59 \newcommand{\cv@do@title}{\par\bigskip
60   \begin{center} \cv@tit@fnt\cv@tit\end{center}}
61 \renewcommand{\maketitle}{%
62   \if@cv@title@above\cv@do@title\fi
63   \par\noindent%
64   \begin{tabular*}{\textwidth}{t}{l\extracolsep{\fill}l}
65     \cv@header{\cv@lh@lr}{\cv@lh}&\cv@header{\cv@rh@lr}{\cv@rh}

```

```

66         \end{tabular*}
67         \par
68         \if@cv@title@above\else\cv@do@title\fi
69         \bigskip\par}

\section  Redefine \section to use \cv@sec@fnt
70 \renewcommand{\section}{
71   \@startsection{section}{1}{\z@}
72     {-3.5ex \@plus -1ex \@minus -.2ex}
73     {2.3ex \@plus .2ex}{\cv@sec@fnt}}

\subsection  Now the subsection
74 \renewcommand{\subsection}{
75   \@startsection{subsection}{1}{3em}
76     {-3.5ex \@plus -1ex \@minus -.2ex}
77     {2.3ex \@plus .2ex}{\cv@ssec@fnt}}

the other ones do not exist.
78 \let\subsubsection=\relax
79 \let\paragraph=\relax \let\subparagraph=\relax
we do not want any numbering
80 \setcounter{secnumdepth}{0}

\topicmargin  The left margin for topics
81 \newcommand{\topicmargin}{0.20\columnwidth}
82 \newlength{\t@picmargin}

topic  Define the topic environment.
      First the macros that typeset the label.
83 \newcommand{\@topic@makelabel}[1]{\cv@tlab@fnt #1\hfill}
84 \let\@topic@old@item=\@item
85 \newlength{\topic@label@length}
86 \def\@topic@item[#1]{%
87   \@topic@old@item[#1]%
88   \if@cv@topic@break%
89     \settowidth{\topic@label@length}{#1}%
90     \ifdim\topic@label@length>\labelwidth\mbox{}\\\*\fi%
91   \fi%
92   \if@cv@topic@title%
93     \mbox{}\cv@ttit@fnt%
94     \everypar\expandafter{\the\everypar \normalfont}%
95   \fi%
96 }
97 \newcommand{\@topic@setup}{%
98   \setlength{\t@picmargin}{\topicmargin}
99   \if@rl%
100     \setlength{\leftmargin}{0cm}%
101     \setlength{\rightmargin}{\t@picmargin}%

```

```

102         \else%
103             \setlength{\leftmargin}{\t@picmargin}%
104             \setlength{\rightmargin}{0cm}%
105         \fi%
106         \setlength{\labelwidth}{0.8\t@picmargin}%
107         \let\makelabel=\@topic@makelabel%
108     }
109 \newenvironment{topic}
110     {\list{
111         {\@topic@setup%
112             \let\@item=\@topic@item}}
113     {\endlist}

```

`thebibliography` Redefine the `thebibliography` environment to look like the `topic` environment. The argument of `thebibliography` is ignored. In older versions, the environment produced its own `\section` command, but this was removed in version 1.3 (following an idea of Reuben Thomas).

```

114 \renewenvironment{thebibliography}[1]
115 {\list{\@biblabel{\theenumiv}}{%
116     \@topic@setup%
117     \@openbib@code%
118     \usecounter{enumiv}%
119     \let\p@enumiv\@empty%
120     \renewcommand\theenumiv{\@arabic\c@enumiv}}%
121     \if@cv@cont@bib@num%
122         \setcounter{enumiv}{\value{cv@save@bib@num}}%
123     \fi%
124     \sloppy \clubpenalty 4000 \widowpenalty 4000 \sfcode'\.=\@m}%
125 {\endlist%
126     \if@cv@cont@bib@num%
127         \setcounter{cv@save@bib@num}{\value{enumiv}}%
128     \fi}
129 \endclass

```