

# Mail merge with the use of formlett.sty

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In this article, the author explains how to use a form-letter or mail merge style `formlett.sty`, designed for plain  $\text{T}_\text{E}\text{X}$  and  $\text{L}\text{A}\text{T}_\text{E}\text{X}$  or  $\text{L}\text{A}\text{T}_\text{E}\text{X}2\text{e}$ . `formlett.sty` supports different parameter input methods, parameter naming and defaulting mechanism, as well as facilities for previewing parameter positions and printing labels. It is written for the purpose of being powerful, robust and above all easy to use.

## Introduction

Our purpose here is to describe a comprehensive implementation of a macro system, handling form letters or mail merge under plain  $\text{T}_\text{E}\text{X}$  or  $\text{L}\text{A}\text{T}_\text{E}\text{X}$  2.09 or  $\text{L}\text{A}\text{T}_\text{E}\text{X}2\text{e}$ . The main objective is to provide an easy way to output many form letters with their own parameters, with or without the use of multiple files. There will be a coherent and simple format for putting parameters inside a form letter, with a number of helping facilities for such as naming parameters and previewing their positions. A minimum support for printing mailing labels is also provided.

The concept of macros [1] for form letters is not new: there already exist macros in this connection such as `merge`, `textmerg` and `address` to name a few, see [2,3] for further details. Our stress here is therefore laid on the ease to use, along with the power and the robustness of the macros.

## Basic format

Suppose we would like to write a form letter for mail merge in the following form

```
<<FULL NAME>>
<<ADDRESS-01>>
<<ADDRESS-02>>
```

Dear <<GIVEN NAME>>,

We have been looking for <<MISSING ITEM>> for quite a while without any luck, could you help us out? If so, please ring <<PHONE NUMBER>>.

Cheers! Michael

where the text inside the double arrow brackets are to be replaced by the parameters specific to each individual letter. If we number these parameters one by one in a single group, then the letter template will be organised as

```
1 - 1
1 - 2
1 - 3
```

Dear 1 - 4,

We have been looking for 1 - 5 for quite a while without any luck, could you help us out? If so, please ring 1 - 6.

Cheers! Michael

and we need just 6 parameters to personalise an individual letter. A simplest example of supplying a set or a *cluster* of these parameters to output a merged form letter is to use

```
\moreletter
Mrs L Stenson;\#1-20 Sunset Street;%
Hills, Norway;Louise;a Bible;220-8888!
```

For more letters to be merged this way, just use again the command `\moreletter` in the above format, in which each parameter is separated by a semicolon ‘;’ and the whole parameter cluster is ended by an exclamation mark ‘!’. The actual code in  $\text{L}\text{A}\text{T}_\text{E}\text{X}$  for making the above form letter, along with an extra merged letter, may read as follows

```
\documentstyle[formlett]{article}          0001
\begin{document}                          0002
\beginletter                               0003
\NOPAGENUMBERS\parindent=0pt             0004
\paras[1]\par\paras[2]\par              0005
\paras[3]\par\medskip                    0006
Dear \paras[4], \par\medskip             0007
We have been looking for                 0008
\paras[5] for quite a while              0009
without any luck, could you help         0010
us out? If so, please ring               0011
\paras[6]. \par\medskip                  0012
Cheers!\hfill Michael\vfill\ejct        0013
\endletter                                0014
                                          0015
\moreletter % letter one                 0016
Mrs L Stenson;\#1-20 Sunset Street;%     0017
Hills, Norway;Louise;a Bible;220-8888!  0018
\moreletter % letter two                 0019
S Wales;UMIST;Manchester;Sir or Madam;% 0020
a \TeX\ package{+}manual;225-9905!     0021
\end{document}                          0022
```

The line numbers in the above and later on are for quick reference only: they are not a part of the program code. The letter template in lines 4-13 is de-

fined by the `\beginletter` and `\endletter` pair in line 3 and line 14, with each use of `\moreletter` generating a new merged letter. We note that command `\paras[m]` represents the  $m^{\text{th}}$  merged parameter (of the first group, see later), and the command `\NOPAGENUMBERS` will remove the page numbering for both L<sup>A</sup>T<sub>E</sub>X and plain T<sub>E</sub>X. We also note that if one replaces lines 1-2 by `\input formlett.sty`, then the program will be compilable under plain T<sub>E</sub>X as well.

Although the mail merge mechanism in the above will be sufficient for most simple applications, `formlett` provides in fact many more features. We shall thus in the followings introduce the main features one by one, from the most useful to the less likely encountered.

To start with, we notice that in the above example there are exactly two parameters to be used for the address. This is inconvenient to say the least, even if we allocate say three more extra parameters for the purpose. This naturally calls for the separation of the whole *cluster* of parameters into several *groups*, so that the numbering of the parameters in every group will be resynchronised. We thus use `\paras[m][n]` to denote the  $m^{\text{th}}$  parameter of the  $n^{\text{th}}$  group of a whole cluster of merging parameters. In fact we may use `\blockparas[m][n][pre][post]` to represent parameters in the  $n^{\text{th}}$  group, from the  $m^{\text{th}}$  to the last parameter of that group, where the tokens denoted by *pre* and *post* are those to be added in front and behind respectively each of the legitimate parameters. The defaults for *pre* and *post* are `\noindent` and `\par` respectively. It is therefore more sensible to specify the merging parameters of the earlier example via

```
<<FULL_NAME>>          0023
<<ADDRESS-etc>>        0024
```

Dear <<GIVEN NAME>>,

We have been looking for <<MISSING ITEM>> for quite a while without any luck, could you help us out? If so, please ring <<PHONE NUMBER>>.

Cheers! Michael

where <<ADDRESS-etc>> will be produced by `\blockparas[2][1]`, i.e. all the parameters of the first group, starting from the 2nd parameter. We note that the missing square-bracketed macro parameters for `\blockparas` are automatically provided: in fact macro parameters in `formlett` are systematically defaulted. Hence for example, `\paras[1][1]` is equivalent to any of the following commands

```
\paras, \paras[1], \paras[] [1],
\paras[1] [], \paras [] []
```

As for the more precise position of the merging parameters, they can always be viewed via the command `\preview`, which in this case gives the following positioning

```
1 - 1
1 - 2 (+): macro:->\noindent <<paras>> macro:->\par
```

Dear 2 - 1,

We have been looking for 2 - 2 for quite a while without any luck, could you help us out? If so, please ring 2 - 3.

Cheers! Michael

This way, the mail merge for the above letter template can also be done (in plain T<sub>E</sub>X) in the following more flexible way

```
\input formlett.sty          0025
\beginletter                  0026
\nopagenumbers\parindent=0pt 0027
\noindent{\it\paras[1]}\par   0028
\blockparas[2]\par\bigskip    0029
Dear \paras[1][2],\par\medskip 0030
We have been looking for      0031
\paras[2][2] for quite a while 0032
without any luck, could you help 0033
us out? If so, please ring     0034
\paras[3][2]. \par\medskip    0035
Cheers!\hfill Michael\vfill\ejct 0036
\endletter \preview           0037
                               0038
\beginpilemode                0039
Mrs L Stenson;\#1-20 Sunset Street 0040
Hills, Norway+Louise;a Bible;220-8888! 0041
                               0042
S Wales;UMIST;Manchester+%    0043
Sir or Madam;a \TeX\space     0044
package{+}manual;225-9905!    0045
\endpilemode                  0046
\end                          0047
```

We note that by default we used plus sign '+' to separate different groups inside a cluster of parameters, and each cluster inside a `\beginpilemode` and `\endpilemode` pair will output a merged letter, as if it were produced by command `\moreletter` followed by that cluster of parameters. The output of the first merged letter in fact reads

*Mrs L Stenson*  
#1-20 Sunset Street Hills, Norway

Dear Louise,

We have been looking for a Bible for quite a while without any luck, could you help us out? If so, please ring 220-8888.

Cheers! Michael

It is often desirable to supply parameters line by line, i.e. one line as one parameter. Hence the two merged letters produced by lines 25-47 can also be made by replacing the content included in the `\beginpilemode` and `\endpilemode` pair (lines 39-46) by the following new code

```

\blockmarks                                0048
\beginblockmode                             0049
Mrs L Stenson                               0050
\#1-20 Sunset Street                        0051
Hills, Norway                              0052
-----                                     0053
Louise                                       0054
a Bible                                     0055
220-8888                                    0056
=====                                     0057
                                           0058
S Wales                                     0059
UMIST                                       0060
Manchester                                  0061
-----                                     0062
Sir or Madam                               0063
a \TeX\ package+manual                     0064
225-9905                                    0065
=====                                     0066
\endblockmode                              0067
\defaultmarks                              0068
where obviously we have used lines with ‘----’ to
separate groups and used lines with ‘====’ to end
a cluster of parameters. This was done by the
use of \blockmarks which changes the group deli-
miter ‘+’ and cluster delimiter ‘!’ into the above
two new ones, with the \defaultmarks at the end
setting them back. If the whole cluster of param-
eters are categorised into a single (first) group, then
we may even use a block of consecutive nonempty
lines to provide the merging parameters. This is
done by the use of command pair \beginlinemode
and \endlinemode. Hence we may also conduct the
above mail merge in for instance LATEX2e by
\documentclass{article}                    0069
\usepackage{formlett}                      0070
\begin{document}                           0071
  \beginletter                               0072
    \NOPAGENUMBERS\parindent=0pt           0073
    \paras[4]\par\blockparas[5]            0074
    \par\medskip                             0075
    Dear \paras[1], \par\medskip            0076
    We have been looking for                0077
    \paras[2] for quite a while             0078
    without any luck, could you help        0079
    us out? If so, please ring              0080
    \paras[3]. \par\medskip                 0081
    Cheers!\hfill Michael\vfill\ejct       0082
  \endletter                                 0083
                                           0084
\beginlinemode                              0085

```

```

Louise                                       0086
a Bible                                     0087
220-8888                                    0088
Mrs L Stenson                               0089
\#1-20 Sunset Street                        0090
Hills, Norway                              0091
                                           0092
Sir or Madam                               0093
a \TeX\ package+manual                     0094
225-9905                                    0095
S Wales                                     0096
UMIST                                       0097
Manchester                                  0098
\endlinemode                             0099
\end{document}                             0100

```

Notice that we have changed the numbering order of the parameters so that the number of address lines output by `\blockparas` is more flexible.

## Advanced features

The advanced features to be discussed below are mainly for the purpose of (i) writing *long* form letter; (ii) making *many* different form letters; (iii) reading mail merge parameters that are in *crude* ASCII form; and (iv) generating mail labels.

It is in general better to keep the letter template, i.e. the content between `\beginletter` and `\endletter` like those in lines 4-13, in a separate file, say `myletter.let`, and use `\inputletter{myletter.let}` to load in the letter template. The advantage of this over the previously used method is that the letter template can now be arbitrarily large without any risks of causing computer memory problem.

Suppose we have a collection of letter templates, we may wish to remind ourselves what each parameter represents. For this purpose, we may add at the top of the letter template a command `\paranames cluster!`, where *cluster* is a cluster of parameters each giving a name to the corresponding parameter. Command `\paranames` takes its macro parameters in the same way `\moreletter` does. After a letter template is read in, command `\showparas` will output a form letter with its parameters replaced by the corresponding names. The mainly italic passage containing lines 23-24, for instance, is the output of `\showparas` for the letter template in lines 102-109 given explicitly later on.

We may also use `\paradefaults cluster!` to provide default parameters, i.e. the parameters to replace the empty or not entered ones, and use `\loaddefaultparas` inside letter template to activate the parameter defaulting. We note that in general commands `\paranames` and `\loaddefaultparas`, if present, should be at the top

of the letter template, with `\loaddefaultparas` below the command `\paranames`. Hence for our previous mail merge, we may re-do it via

```

\input formlett.sty          0101
\beginletter                 0102
\paranames                   % optional 0103
  \tt<<FULL NAME>>;\tt<<ADDRESS-etc>>;% 0104
  +\tt<<GIVEN NAME>>;\tt<<MISSING ITEM>>;% 0105
  \tt<<PHONE NUMBER>>!          0106
\loaddefaultparas           % optional 0107
  {letter details given in lines 27-36} 0108
\endletter                   0109
\preview \showparas         0110
                              0111
\paradefaults               % optional 0112
  To whom this may concern      0113
  +Sir or Madam;something;%     0114
  061-225-9905!                0115
                              0116
\blockmarks                  0117
\beginrawblockmode{}         0118
Mrs L Stenson                 0119
#1-20 Sunset Street          0120
Hills, Norway                 0121
-----                       0122
Louise                        0123
a Bible                       0124
220-8888                      0125
=====                       0126
                              0127
.....                         0128
                              0129
Above empty line active      0130
\endrawblockmode             0131
\defaultmarks                0132
\end{document}               0133

```

We note that in *blockmode* with `\blockmarks`, a line with ‘...’ marks the immediate start of a parameter block, whether or not the lines immediately following it are empty or not. Also that in *rawblockmode* enclosed by `\beginrawblockmode` and `\endrawblockmode`, all characters are input in their original ASCII form. In other words, the special characters for  $\TeX$  will be ignored here.

If the merging parameters are given by exactly  $m$  lines per cluster, as is often the case when they are produced by a database utility, then we may use the `\begindatamode` and `\enddatamode` pair to mark the beginning and the end of the merging parameters. For more details, see the Appendix at the end.

We may keep the letter template and the merging parameters in two separate files. For instance, if we save lines 103-108 to file `myletter.let`, lines 39-46 or lines 48-68 to file `myletter.adr`, then we can produce via  $\LaTeX$  the mail merge by

```

\documentstyle[formlett]{article} 0134
\begin{document}                  0135

```

```

\inputletter{myletter.let}        0136
\showparas \preview % utility demo 0137
\paradefaults To whom it may concern! 0138
\inputfile{myletter.adr}         0139
\beginlabels % 1st group as address 0140
\inputfile{myletter.adr} % for labels 0141
\endlabls                          0142
\end{document}                    0143

```

where the lines 140-142 will generate the address labels using the first group (as is intended here) of parameters. More precise format of `\beginlabels` and etc can be found in the Appendix.

Another way of making labels, if no separate files for the parameters are present, is to re-read the document itself and make labels instead of merged form letters in the second reading. We may thus use `\input formlett.sty \initstyle [styles]{article}{preamble}` to replace `\documentstyle [formlett, styles]{article} preamble \begin{document}`, which will be valid for  $\LaTeX$  but ignored for  $\TeX$ , and will enable one to use `\labelsquit` at the end to read in the current document again with all the letters there converted into the corresponding labels. Though `\initstyle` is valid for plain  $\TeX$ ,  $\LaTeX 2.09$  as well as  $\LaTeX 2e$ , `\initclass` will generate `\documentclass` instead of `\documentstyle` when  $\LaTeX 2e$  is the processing environment. If you only want to execute certain commands the first time round (i.e. before `\labelsquit` re-reads the file again), use `\firstread{commands}` for this purpose. For more detailed use and examples, read the *programmer's document* attached to the style file `formlett.sty` and the example files it generates. In fact, many details and extra features that are not contained in this article may be found there.

We already noted that if a form letter is large, we have to use `\inputletter` to load in the template. However, it is often still desirable to keep everything inside a single file, while allowing it to make new (scratch) files when it is being compiled. We may thus use for example

```

\beginfile{myletter.let}
  {letter template of lines 103-108}
\endfile

```

to create a letter template file `myletter.let`. Likewise, the merging parameters can be saved to another run-time created file `myletter.adr`.

We have so far only used the default delimiters ‘;’, ‘+’ and ‘!’ to separate single, group and cluster of parameters, with temporary change via `\blockmarks` to ‘...’, ‘----’ and ‘====’ respectively. However we may change the delimiters to any characters by `\delimiters{S}{G}{C}`, where  $S$ ,  $G$  and  $C$  are the tokens to delimit single, group and cluster of parameters respectively, and change

the delimiters back to the default by `\defaultmarks` or equivalently by `\delimiters{;}{+}{!}`.

To conclude this section, let us finally look below at an ‘ideal’ and ‘finished’ mail merge application code,. It is currently in a form compilable under  $\text{\LaTeX}2\text{e}$ , and is also valid for plain  $\text{\TeX}$  if the first three lines (lines 144-146) are removed.

```

\documentclass{article}                                0144
\usepackage{formlett} % LaTeX2e                       0145
\begin{document}                                       0146
                                                         0147
%%%% MAKE file scr@tch@.let                             0148
\beginfile{scr@tch@.let} % letter content             0149
\paranames <<name>>;<<address>>+<<items>>!             0150
\loaddefaultparas                                     0151
\parindent=0pt\blockparas\bigskip\bigskip           0152
Dear \paras, \par\bigskip                             0153
This part is typically the letter content.           0154
It now displays all the items in the 2nd             0155
parameter group. They are \par                       0156
\blockparas[] [2] \vfill\ejct                         0157
\endfile                                              0158
                                                         0159
%%%% MAKE file scr@tch@.adr                             0160
\beginfile{scr@tch@.adr} % address file              0161
\blockmarks                                           0162
\beginblockmode                                       0163
T Teng                                                0164
UMIST                                                 0165
Manchester M60 1QD                                    0166
=====                                              0167
                                                         0168
Z Jiang                                               0169
UNE                                                  0170
Armidale NSW 2351                                    0171
Australia                                             0172
-----                                              0173
Email: zhuhan@neumann.une.edu.au                    0174
=====                                              0175
\endblockmode                                         0176
\defaultmarks                                         0177
\endfile                                              0178
                                                         0179
% MAIN BODY                                           0180
\paradefaults To Whom It May Concern                 0181
  +No further info available{!}!                     0182
\inputletter{scr@tch@.let}                            0183
\inputfile{scr@tch@.adr}% for letters                 0184
\beginlabels                                          0185
\inputfile{scr@tch@.adr}% for labels                 0186
\endlabels                                            0187
\end{document}                                        0188

```

We note that if we replace lines 144-146 by `\input formlett.sty \initstyle{}{}`, then the mail merge can be processed by either plain  $\text{\TeX}$  or  $\text{\LaTeX}$  (including  $\text{\LaTeX}2\text{e}$ ). It is likewise if

`\initstyle` in the replaced line is replaced furthermore by `\initclass`, except that now the native  $\text{\LaTeX}2\text{e}$  environment is preserved, when applicable, rather than turning it into the compatibility mode of  $\text{\LaTeX}2.09$ .

## Programmer’s tips

First we note that all the macro parameters that are to appear inside square brackets of `formlett`’s commands are defaulted, just like how `\paras[m][n]` is defaulted earlier on. The actual default values can be found in the Appendix.

For those wizard users who want to do everything their own way, we point out that if for instance the 3rd letter parameter of the 2nd group of a cluster is given as `<A>`, then `\LET2*3~` will contain `\b@group\relax<A>\e@group` right after a cluster is read in. `\DEF2*3~`, on the other hand, contains the corresponding default parameter in the same fashion. Furthermore, the command `\checkparas[m][n]{LET}` will copy the content of `\paras[m][n]`, minus the ‘wrapping’ extra tokens `\b@group\relax` and `\e@group`, to `\cachedata` and set `\ifemptyparas` to true or false depending on whether the content is empty or not. This way, a user may even change the characteristics of his letter template by first testing the content of the supplied individual parameters. However, we note that if `\loaddefaultparas` is executed, then the `LET` array, when some of its elements are not supplied, will contain the corresponding elements of the `DEF` array. Hence care must be exercised under such circumstances, when interpreting the `\cachedata` generated by `\checkparas[m][n]{LET}`. If necessary, we may use `\delparadefaults` to delete current default parameter array `DEF` so as to conduct `\checkparas{LET}` more precisely.

There are also a number of generic macro utilities in `formlett`, including a user stack and a multi-dimensional array mechanism.

`formlett` was written for all  $\text{\TeX}$  dialects, its format is thus more close to that of plain  $\text{\TeX}$ . In fact, we deliberately avoided mixing up `formlett` with the standard letter environment of  $\text{\LaTeX}$ . This is largely due to the fact that the limited facilities of  $\text{\LaTeX}$  letter environment are easy to come by anyway, and are not really worth writing buckled code to make `formlett` a type of extension of the environment. Nevertheless, one can still use the letter environment of  $\text{\LaTeX}$  inside the form letter template. Besides, the applicability of `formlett` is not restricted for making form *letters*; it can also be used to merge other type of articles or passages.

## References

- [1]. Knuth D E, *The  $\text{\TeX}$ book*, Reading, Mass., Addison-Wesley, 1992.

- [2]. Piff M, Text merges in T<sub>E</sub>X and L<sup>A</sup>T<sub>E</sub>X, *TUGboat*, 13(4):518, 1993.
- [3]. Damrau J and Wester M, Form letters with 3-across labels capacity, *TUGboat*, 13(4):510, 1991.

## Appendix

In the followings, we give a brief summary of the main commands given by `formlett` version 2.1.

Let  $m$  and  $n$  be numbers,  $p$ ,  $q$  and  $r$  be dimensions,  $A$ ,  $B$ ,  $S$ ,  $G$ ,  $C$  and  $T$  be tokens, and  $X$  be a box. Furthermore, we shall denote by  $R$  a full set of letter parameters ended by ‘!’, with ‘;’ separating parameters inside a same group and ‘+’ separating different parameter groups. We moreover denote  $R$  by  $F$ , when ‘; + !’ there can be replaced by ‘ $S$   $G$   $C$ ’ respectively if `\delimiters{S}{G}{C}` is issued. In the commands tabulated below, the macro parameters contained in squared brackets support default. In particular, the defaults are  $m=1$ ,  $n=1$ ,  $p=8\text{truecm}$ ,  $q=1.5\text{em}$ ,  $r=3\text{pt}$ ,  $A=\text{\noindent}$  and  $B=\text{\par}$ .

<code>\paras[m][n]</code>	$m^{\text{th}}$ parameter of $n^{\text{th}}$ group
<code>\blockparas[m][n][A][B]</code>	$m^{\text{th}}$ to the last parameter of $n^{\text{th}}$ group, each preceded by $A$ and followed by $B$ , wrapped by <code>{}</code> if $B=\text{\relax}$
<code>\addressparas[m][n][p][q]</code>	$m^{\text{th}}$ to the last parameter of $n^{\text{th}}$ group, each put into a box of width $p$ with indent $q$ for wrapped portions
<code>\loaddefaultparas</code>	fill empty parameters with defaults
<code>\checkparas[m][n]{T}</code>	$m^{\text{th}}$ parameter of $n^{\text{th}}$ group copied to <code>\cachedata</code> ; <code>\ifemptyparas</code> is true if element is empty; $T$ is often <code>LET</code> or <code>DEF</code>
<code>\moreletter F</code>	use parameters $F$ to output a new letter
<code>\paranames R</code>	use $R$ as parameter names
<code>\paradefaults R</code>	use $R$ as default parameters
<code>\delparadefaults</code>	delete default parameters
<code>\delimiters{S}{G}{C}</code> <code>\defaultmarks</code> <code>\blockmarks</code>	use $S$ , $G$ , $C$ as delimiters use ‘; + !’ as delimiters use ‘...’, ‘----’, ‘====’ as delimiters
<code>\preview</code>	highlight parameter positions
<code>\showparas</code>	display parameter names, if any
<code>{ \beginfile[T]{file.ext}</code> <code>\endfile</code>	write text verbatim to file <code>file.ext</code> (empty implies <code>scratch.tex</code> ), nonempty $T$ replaces <code>\endfile</code> to mark last full line
<code>\inputletter{file.ext}</code> <code>\inputfile{file.ext}</code>	input letter content input <code>file.ext</code>

<code>{ \beginletter</code> <code>\endletter</code>	delimiters for letter content (template)
<code>{ \beginpilemode</code> <code>\endpilemode</code>	normal letter parameters cluster-wise
<code>{ \beginblockmode</code> <code>\endblockmode</code>	for line-by-line blocks of parameters, empty lines active within each cluster
<code>{ \beginlinemode</code> <code>\endlinemode</code>	for line-by-line parameters, empty lines delimit clusters
<code>{ \beginrawblockmode{T}</code> <code>\endrawblockmode</code>	raw text mode; nonempty $T$ replaces <code>\endrawblockmode</code> to mark end
<code>{ \beginrawlinemode{T}</code> <code>\endrawlinemode</code>	raw text parameters and active spaces etc
<code>{ \begindatamode[T]{m}</code> <code>\enddatamode</code>	$m$ raw text lines for one form letter
<code>\PAGENO=1</code> <code>\NOPAGENUMBERS</code> <code>\textbox[p]{text}</code> <code>\boxmore[r]{X}</code>	page number reset to 1 no page numbers $text$ into box of width $p$ add borderline to box $X$ at a distance $r$
<code>\addressbox[p][q]{text}</code>	$text$ into box of width $p$ , with wrapped options indented by $q$
<code>{ \beginlabels[a][b][c][d][e][f]</code> <code>\endlabels</code>	form letters become labels: address taken from $c^{\text{th}}$ to last parameter of $d^{\text{th}}$ group, with width $e$ , indent $f$ , borderspace $a$ and font toks $b$
<i>defaults:</i> $a=2\text{opt}$ , $b=\text{\tt\raggedright}$ , $c=1$ , $d=1$ , $e=2.6\text{in}$ , $f=2\text{em}$	
<code>\firstread{T}</code>	toks $T$ will not be read if the file is re-read via <code>\labelsquit</code>
<code>\initstyle[a]{b}{c}</code>	initiation for <code>\labelsquit</code> , with styles $a$ , documentstyle $b$ and preamble $c$
<code>\initclass[a][o]{b}{c}</code>	similar to <code>\initstyle</code> ( $o$ is L <sup>A</sup> T <sub>E</sub> X2e options), but retains native L <sup>A</sup> T <sub>E</sub> X2e when applicable
<code>\labelsquit[a][b][c][d][e][f]{file.ext}</code>	quit after converting letters to labels by reading the current document or <code>file.ext</code>
<i>defaults:</i> see that for <code>\beginlabels</code>	