The gobble Package

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CTAN: http://www.ctan.org/pkg/gobble

VC: https://bitbucket.org/martin_scharrer/gobble

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Abstract

The gobble LaTeX package provides more macros to discard (gobble) macro arguments. These macros are by default only for package and class writers, but are exported to the user level by the `gobble-user` package. The macros are also available as generic packages for other TeX formats.

1 Macros

1.1 Macros for Package/Class Writers

The following macros are provided by the generic `gobble.tex` and the LaTeX package `gobble`. Some are already provided by the LaTeX kernel.

```
\@gobble
\@gobbletwo
\@gobblethree
\@gobblefour
```

Gobbles one, two, three or four mandatory arguments.

```
\@gobbleopt
\@gobbletwoopt
\@gobbleallopt
```

Gobbles one, two or all found optional arguments if present.

```
\@gobbletwoopttwo
```

Gobbles (up to) two optional arguments if present and then two mandatory arguments.

```
\@firstofone
```

Reads one argument and expands to it, i.e. removes the braces around it.

```
\@firstoftwo
```

Reads two arguments and expands to the first one while discarding the second one.

```
\@secondoftwo
```

Reads two arguments and expands to the second one while discarding the first one.

```
\@firstofthree
\@secondofthree
\@thirdofthree
```

These macros read three arguments and expand to the first, second or third one, respectively, while discarding the other.

```
\@gobbletofi{⟨code⟩}⟨discarded code⟩\fi
\@gobbletoelse{⟨code⟩}⟨discarded code⟩\else
\@gobbletoor{⟨code⟩}⟨discarded code⟩\or
```

These macros read one argument and then gobble everything to the next `\fi`, `\else` or `\or`, respectively. Afterwards they expand to the first argument. This allows to break out of an `\if..` or `\ifcase` branch, which is sometimes required if code should be executed after the conditional.

1.2 User Level Macros

The following macros are provided by the generic `gobble-user.tex` and the LaTeX package `gobble-user`. These also load the `gobble.tex` file or package `gobble` package, respectively.

They macros are identical to the corresponding versions with the leading '@', but can be used freely in a user document.

```
\gobble
\gobbletwo
\gobblethree
\gobblefour
```

```
\gobbleopt
\gobbletwoopt
\gobbleallopt
```

```
\gobbletwoopttwo
```

```
\firstofone
```

```
\firstoftwo
\secondoftwo
```

```
\firstofthree
\secondofthree
\thirdofthree
```

```
\gobbletofi
\gobbletoelse
\gobbletoor
```

2 Implementation

```
1  %<!COPYRIGHT>
2  \NeedsTeXFormat{LaTeX2e}[1999/12/01]
3  \ProvidesPackage{gobble}[%
4  %<!DATE>
5  %<!VERSION>
6  %<*DRIVER>
7      2099/01/01 develop
8  %</DRIVER>
9      Provides more gobble macros]

10 \input{gobble}

11 %<!COPYRIGHT>
12 \NeedsTeXFormat{LaTeX2e}[1999/12/01]
13 \ProvidesPackage{gobble-user}[%
14 %<!DATE>
15 %<!VERSION>
16 %<*DRIVER>
17     2099/01/01 develop
18 %</DRIVER>
19     Provides user level macros]

20 \RequirePackage{gobble}
21 \input{gobble-user}

22 \expandafter\ifx\csname gobble.tex loaded\endcsname\⟋
       relax
23     \expandafter\def\csname gobble.tex loaded\⟋
           endcsname{1}%
24 \else
25     \expandafter\endinput
26 \fi
```

\gobbletex@catcode

```
27 \expandafter\edef\csname gobbletex@catcode\endcsname{⟋
       %
28     \catcode`\noexpand\@=\the\catcode`\@%
29 }%
30 \catcode`\@=11
```

\@gobble

4

<div style="border:1px solid #4a6fa5; display:inline-block; padding:4px 12px; color:#2a4d7a;">

`\@gobbletwo`

</div>

<div style="border:1px solid #4a6fa5; display:inline-block; padding:4px 12px; color:#2a4d7a;">

`\@gobblethree`

</div>

<div style="border:1px solid #4a6fa5; display:inline-block; padding:4px 12px; color:#2a4d7a;">

`\@gobblefour`

</div>

```
31  \long\def\@gobble#1{}%
32  \long\def\@gobbletwo#1#2{}%
33  \long\def\@gobblethree#1#2#3{}%
34  \long\def\@gobblefour#1#2#3#4{}%
```

<div style="border:1px solid #4a6fa5; display:inline-block; padding:4px 12px; color:#2a4d7a;">

`\@gobbleopt`

</div>

```
35  \long\def\@gobbleopt{%
36      \@ifnextchar[%
37          {\@gobbleopt@}%
38          {}%
39  }%
```

<div style="border:1px solid #4a6fa5; display:inline-block; padding:4px 12px; color:#2a4d7a;">

`\@gobbleopt@`

</div>

```
40  \def\@gobbleopt@[#1]{}%
```

<div style="border:1px solid #4a6fa5; display:inline-block; padding:4px 12px; color:#2a4d7a;">

`\@gobbletwoopt`

</div>

```
41  \long\def\@gobbletwoopt{%
42      \@ifnextchar[%
43          {\@gobbletwoopt@}%
44          {}%
45  }%
```

<div style="border:1px solid #4a6fa5; display:inline-block; padding:4px 12px; color:#2a4d7a;">

`\@gobbletwoopt@`

</div>

```
46  \def\@gobbletwoopt@[#1]{\@gobbleopt}%
```

```
47  \long\def\@gobbleallopt{%
48      \@ifnextchar[%
49          {\@gobbleallopt@}%
50          {}%
51  }%
```

```
52  \long\def\@gobbleallopt@[#1]{%
53      \@ifnextchar[%
54          {\@gobbleallopt@}%
55          {}%
56  }%
```

```
57  \long\def\@gobbletwoopttwo{%
58      \@ifnextchar[%
59          {\@gobbletwoopttwo@}%
60          {\@gobbletwo}%
61  }%
```

```
62  \long\def\@gobbletwoopttwo@[#1]{%
63      \@ifnextchar[%
64          {\@gobbletwoopttwo@@}%
65          {\@gobbletwo}%
66  }%
```

```
67  \long\def\@gobbletwoopttwo@@[#1]{%
68      \@gobbletwo
69  }%
```

```
70  \long\def\@firstofone#1{#1}%
```

> `\@firstoftwo`

> `\@secondoftwo`

```
71  \long\def\@firstoftwo#1#2{#1}%
72  \long\def\@secondoftwo#1#2{#2}%
```

> `\@firstofthree`

> `\@secondofthree`

> `\@thirdofthree`

```
73  \long\def\@firstofthree#1#2#3{#1}%
74  \long\def\@secondofthree#1#2#3{#2}%
75  \long\def\@thirdofthree#1#2#3{#3}%
```

> `\@gobbletofi`

> `\@gobbletoelse`

> `\@gobbletoor`

```
76  \long\def\@gobbletofi#1#2\fi{\fi#1}%
77  \long\def\@gobbletoelse#1#2\else{\else#1}%
78  \long\def\@gobbletoor#1#2\or{\or#1}%

79  \gobbletex@catcode

80  \expandafter\ifx\csname gobble-user.tex loaded\/
        endcsname\relax
81      \expandafter\def\csname gobble-user.tex loaded\/
            endcsname{1}%
82  \else
83      \expandafter\endinput
84  \fi

85  \input{gobble}
```

`\gobbletex@catcode`

```
86  \expandafter\edef\csname gobbletex@catcode\endcsname{↲
      %
87      \catcode'\noexpand\@=\the\catcode'\@%
88  }%
89  \catcode'\@=11
```

`\gobble`

`\gobbletwo`

`\gobblethree`

`\gobblefour`

```
90  \let\gobble\@gobble
91  \let\gobbletwo\@gobbletwo
92  \let\gobblethree\@gobblethree
93  \let\gobblefour\@gobblefour
```

`\gobbleopt`

```
94  \let\gobbleopt\@gobbleopt
```

`\gobbletwoopt`

```
95  \let\gobbletwoopt\@gobbletwoopt
```

`\gobbleallopt`

```
96  \let\gobbleallopt\@gobbleallopt
```

`\gobbletwoopttwo`

```
97  \let\gobbletwoopttwo\@gobbletwoopttwo
```

`\firstofone`

```
98  \let\firstofone\@firstofone
```

`\firstoftwo`

`\secondoftwo`

```
99   \let\firstoftwo\@firstoftwo
100  \let\secondoftwo\@secondoftwo
```

`\firstofthree`

`\secondofthree`

`\thirdofthree`

```
101  \let\firstofthree\@firstofthree
102  \let\secondofthree\@secondofthree
103  \let\thirdofthree\@thirdofthree
```

`\gobbletofi`

`\gobbletoelse`

`\gobbletoor`

```
104  \let\gobbletofi\@gobbletofi
105  \let\gobbletoelse\@gobbletoelse
106  \let\gobbletoor\@gobbletoor

107  \gobbletex@catcode
```