The **ftnxtra** package

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2009/10/18

This package fixes the isuue of footnote inside `\caption{}`, `tabular` environment and `\section{}` like (`\chapter{}`, `\part{}`, `\subsection{}` and etc) commands.

File I
ftnxtra implementation

```
1 \NeedsTeXFormat{LaTeX2e}
2 \ProvidesPackage{ftnxtra}%
3 [2013/04/04 footnote fixes for standard LaTeX]
4 \newtoks\ftnxtra@p@ftn
5 \let\FN@sf@@footnote\footnote
6 \def\footnote{\ifx\protect\@typeset@protect
7     \expandafter\FN@sf@@footnote
8   \else
9     \expandafter\FN@sf@gobble@opt
10   \fi
11 }
12 \edef\FN@sf@gobble@opt{\noexpand\protect
13   \expandafter\noexpand\csname FN@sf@gobble@opt \endcsname}
14 \expandafter\def\csname FN@sf@gobble@opt \endcsname{%
15   \@ifnextchar[%
16     \FN@sf@gobble@twobracket
17     \@gobble
18 }
19 \def\FN@sf@gobble@twobracket[#1]#2{}
20 \let\FN@sf@@footnotemark\footnotemark
21 \def\footnotemark{\ifx\protect\@typeset@protect
22     \expandafter\FN@sf@@footnotemark
23   \else
24     \expandafter\FN@sf@gobble@optonly
25   \fi
26 }
27 \edef\FN@sf@gobble@optonly{\noexpand\protect
28   \expandafter\noexpand\csname FN@sf@gobble@optonly \endcsname}
29 \expandafter\def\csname FN@sf@gobble@optonly \endcsname{%
```

```
30    \@ifnextchar[%]
31      \FN@sf@gobble@bracket
32      {}%
33 }
34 \def\FN@sf@gobble@bracket[#1]{}
35 \def\@tabular{%
36    \leavevmode \hbox \bgroup
37    \let\@footnotetext\ftnxtra@p@ftntext
38    $\let\@acol\@tabacol
39    \let\@classz\@tabclassz
40    \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
41 \def\endtabular{\crcr\egroup
42                  \egroup $\egroup
43                  \the\ftnxtra@p@ftn
44                  \global\ftnxtra@p@ftn{}%
45                  }
46 \long\def\ftnxtra@p@ftntext#1{%
47    \edef\@tempy{\the\ftnxtra@p@ftn\noexpand\footnotetext[\the\c@footnote]}%
48    \global\ftnxtra@p@ftn\expandafter{\@tempy{#1}}}%
49 \def\@xfloat #1[#2]{%
50    \@nodocument
51    \def \@captype {#1}%
52    \def \@fps {#2}%
53    \@onelevel@sanitize \@fps
54    \def \reserved@b {!}%
55    \ifx \reserved@b \@fps
56      \@fpsadddefault
57    \else
58      \ifx \@fps \@empty
59        \@fpsadddefault
60      \fi
61    \fi
62    \ifhmode
63      \@bsphack
64      \@floatpenalty -\@Mii
65    \else
66      \@floatpenalty-\@Miii
67    \fi
68    \ifinner
69      \@parmoderr\@floatpenalty\z@
70    \else
71      \@next\@currbox\@freelist
72        {%
73         \@tempcnta \sixt@@n
74         \expandafter \@tfor \expandafter \reserved@a
75           \expandafter :\expandafter =\@fps
76           \do
77           {%
78            \if \reserved@a h%
79              \ifodd \@tempcnta
```

```
80          \else
81             \advance \@tempcnta \@ne
82           \fi
83         \fi
84         \if \reserved@a t%
85           \@setfpsbit \tw@
86         \fi
87         \if \reserved@a b%
88           \@setfpsbit 4%
89         \fi
90         \if \reserved@a p%
91           \@setfpsbit 8%
92         \fi
93         \if \reserved@a !%
94           \ifnum \@tempcnta>15
95             \advance\@tempcnta -\sixt@@n\relax
96           \fi
97         \fi
98         }%
99      \@tempcntb \csname ftype@\@captype \endcsname
100     \multiply \@tempcntb \@xxxii
101     \advance \@tempcnta \@tempcntb
102     \global \count\@currbox \@tempcnta
103     }%
104   \@fltovf
105   \fi
106   \global \setbox\@currbox
107     \color@vbox
108       \normalcolor
109       \vbox \bgroup
110       \let\@footnotetext\ftnxtra@p@ftntext
111        \hsize\columnwidth
112        \@parboxrestore
113        \@floatboxreset
114 }
115 \def \@endfloatbox{%
116     \par\vskip\z@skip        %% \par\vskip\z@ added 15 Dec 87
117     \@minipagefalse
118     \outer@nobreak
119   \egroup                    %% end of vbox
120   \the\ftnxtra@p@ftn
121   \global\ftnxtra@p@ftn{}%
122 \color@endbox
123 }
```