1   Introduction

This document contains the following listings:

Listings

2   Inline Listings

Various delimiters: a_word, a_word, a_word, a_word and even a_word done.
Indirectly: a_word; and with messed up braces foo { bar .
And also as an environment: _word; done.
Careful with spacing/math/macros: foo($\langle X \rangle$)

2.1   Shorthands

Normal: —@— and x^y
Listing1: `$foo->baz(/^\s*/)";`
Listing2: `$foo->baz(/^\s*/)";`
Listing3: `xy`
Normal again: —@— and x^y

3   An untyped Listing

No options, language, etc

```
1  stuff1
2  stuff2
3  stuff3
```

4   Some C

```
1  #define EXAMPLE whichwhat
2  x = "foo";
3  break;
```

5   A Pascal Listing

A listing portion:

```
1  begin
2    { do nothing }
3  end;
```

A numbered listing:

```
1  for i:=maxint to 0 do
       begin
3          { do nothing }
       end;
5
   Write('case insensitive');
7  Write('long'' string');
   WritE('Pascal keywords.');
```

A Titled listing:

<div align="center">A bit of Pascal</div>

```
1  for i:=maxint to 0 do
2  begin
3    { do nothing }
4  end;
5  Write('case insensitive');
```

A Captioned listing (known as Listing 1) :

<div align="center">Listing 1: Another bit of Pascal</div>

```
100  for i:=maxint to 0 do
101  begin
102    { do nothing }
103  end;
```

6   An Environment

```
1  for i:=maxint to 0 do
2  begin
3    { do nothing }
4  end;
```

```
for i:=maxint to 0 do        1
begin                        2
  { do nothing }             3
end;                         4
```

```
for i:=maxint to 0 do          1
begin                          2
  { do nothing }               3
end;                           4
```

7 Framing and such

```
1  for i:=maxint to 0 do
2  begin
3    { do nothing }
4  end;
```

```
1  for i:=maxint to 0 do
2  begin
3    { do nothing }
4  end;
```

```
1  for i:=maxint to 0 do
2  begin
3    { do nothing }
4  end;
```

```
1  for i:=maxint to 0 do
2  begin
3    { do nothing }
4  end;
```

Listing 2: A C language listing

```
1  #define EXAMPLE whichwhat
2  x = "foo";
3  break;
```

8 Listing with Math

```
1  // calculate a_ij
2  a[i][j] = a[j][j]/a[i][j];
```

```
1  // calculate a_ij
2  a[i][j] = a[j][j]/a[i][j];
```

```
1  // calculate  a_ij
2  a_ij = a_jj/aij;
3  // calculate  a_ij = sin x
4
5  a[i,j]=sin(x)
6  foo="a␣word";
7  foo="a␣x² math";
```

```
1  // calculate  <a_ij>
2  a_{ij}
3   = a_{jj}/a{ij};
```

```
1  // calculate  $a_{ij}$
2  $a_{ij}
3   = a_{jj}/a{ij}$;
4  // calculate  $a_{ij} =
5  \sin x$
6  a[i,j]=sin(x)
7  foo="a␣word";
8  foo="a␣\"string";
9  foo="a␣$x^2$␣math";
```

9   A Perl Listing

```
1  # -*- CPERL -*-
2  package LaTeXML::Package::Pool;
3  use strict;
4  use LaTeXML::Package;
5
6  DefConstructor('\container{}',"<ltx:special>#1</ltx:special>");
7  DefConstructor('\foo',"<ltx:not-defined/>");
8
9  1;
```

10   A Recursive T_EX listing

```
1  \documentclass{article}
2  \usepackage{makeidx}
3  \makeindex
4  \usepackage{listings}
5  \usepackage[dvipsnames]{color}
6  \begin{document}
7  \lstset{numbers=left}
8  \section{Introduction}
```

```
 9  This document contains the following listings:
10  \lstlistoflistings
11
12  \section{Inline Listings}
13  Various delimiters: \lstinline{a_word},
14  \lstinline!a_word!, \lstinline Aa_wordA,
15  \lstinline&a_word& and even \lstinline^a_word^ done.
16
17  \def\justcopy#1{#1}
18  Indirectly: \justcopy{\lstinline|a_word|};
19  and with messed up braces \lstinline{foo { bar }.% }
20
21  And also as an environment:
22  \begin{lstinline}
23  a_word
24  \end{lstinline}; done.
25
26  {
27  \lstset{
28    mathescape=true,
29  }
30  Careful with spacing/math/macros: \lstinline!foo($\langle X \rangle$)!
31  }
32  \subsection{Shorthands}
33  Normal: |@| and $x^y$
34  \lstMakeShortInline[language=perl,basicstyle=\ttfamily]|
35  \lstMakeShortInline[language=perl,basicstyle=\ttfamily]@
36  \lstMakeShortInline[language=perl,basicstyle=\ttfamily]^
37
38  Listing 1:
39  |$foo->baz(/^\s*/)";|
40
41  Listing 2:
42  @$foo->baz(/^\s*/)";@
43
44  Listing 3:
45  ^xy^
46  \lstDeleteShortInline|
47  \lstDeleteShortInline@
48  \lstDeleteShortInline^
49
50  Normal again: |@| and $x^y$
51
52  \section{An untyped Listing}
53  No options, language, etc
54  \begin{lstlisting}
```

```
55   stuff1
56   stuff2
57   stuff3
58   \end{lstlisting}
59
60   \section{Some C}
61
62   \begin{lstlisting}[language=C,identifierstyle=\slshape,directivestyle=\ttfamily]
63   #define EXAMPLE whichwhat
64   x = "foo";
65   break;
66   \end{lstlisting}
67
68   \section{A Pascal Listing}
69   A listing portion:
70   \begin{lstlisting}[language=Pascal,firstline=2,lastline=5,caption={}]
71   for i:=maxint to 0 do
72   begin
73     { do nothing }
74   end;
75
76   Write('case insensitive');
77   Write('long '' string');
78   WritE('Pascal keywords.');
79   \end{lstlisting}
80
81   A numbered listing:
82   \begin{lstlisting}[language=Pascal,numbers=left, numberstyle=\tiny, stepnumber=2
83   for i:=maxint to 0 do
84          begin
85                    { do nothing }
86          end;
87
88   Write('case insensitive');
89   Write('long '' string');
90   WritE('Pascal keywords.');
91   \end{lstlisting}
92
93   A Titled listing:
94   \begin{lstlisting}[language=Pascal,title={A bit of Pascal}]
95   for i:=maxint to 0 do
96   begin
97     { do nothing }
98   end;
99   Write('case insensitive');
100  \end{lstlisting}
```

```
101
102
103  A Captioned listing (known as Listing \ref{pascallisting}) :
104  \begin{lstlisting}[language=Pascal,caption=Another bit of Pascal, label=pascallis
105  for i:=maxint to 0 do
106  begin
107    { do nothing }
108  end;
109  \end{lstlisting}
110
111  \section{An Environment}
112  \begin{lstlisting}[language=Pascal]
113  for i:=maxint to 0 do
114  begin
115    { do nothing }
116  end;
117  \end{lstlisting}
118
119  \lstnewenvironment{colored}[1]{\lstset{language=Pascal,numbers=right,numberstyle
120  \begin{colored}{red}
121  for i:=maxint to 0 do
122  begin
123    { do nothing }
124  end;
125  \end{colored}
126
127  \begin{colored}{blue}
128  for i:=maxint to 0 do
129  begin
130    { do nothing }
131  end;
132  \end{colored}
133
134  \section{Framing and such}
135  \lstset{backgroundcolor=\color[named]{CarnationPink}}
136  \begin{lstlisting}[language=Pascal,frame=single,rulecolor=\color{red}]
137  for i:=maxint to 0 do
138  begin
139    { do nothing }
140  end;
141  \end{lstlisting}
142
143  \begin{lstlisting}[language=Pascal,frameround=tttt,backgroundcolor=\color{yellow
144  for i:=maxint to 0 do
145  begin
146    { do nothing }
```

```
147  end ;
148  \end{lstlisting}
149  \lstset{backgroundcolor=}
150  \begin{lstlisting}[language=Pascal,frame=single]
151  for i:=maxint to 0 do
152  begin
153    { do nothing }
154  end ;
155  \end{lstlisting}
156
157  \begin{lstlisting}[language=Pascal,frame=lines]
158  for i:=maxint to 0 do
159  begin
160    { do nothing }
161  end ;
162  \end{lstlisting}
163
164  \begin{lstlisting}[language=C,identifierstyle=\slshape,directivestyle=\ttfamily,
165  caption=A C language listing , frame=lines,backgroundcolor={\color[cmyk]{0,0,0,0.
166  #define EXAMPLE whichwhat
167  x = "foo";
168  break ;
169  \end{lstlisting}
170
171  \section{Listing with Math}
172  \begin{lstlisting}[language=c,texcl,commentstyle=\color{green}]
173  // \upshape calculate $a_{ij}$
174  a[i][j] = a[j][j]/a[i][j];
175  \end{lstlisting}
176
177  \begin{lstlisting}[texcl,language=c]
178  // \upshape calculate $a_{ij}$
179  a[i][j] = a[j][j]/a[i][j];
180  \end{lstlisting}
181
182  \begin{lstlisting}[language=c,mathescape,numbers=left,commentstyle=\color{green}
183  // calculate $a_{ij}$
184  $a_{ij}
185   = a_{jj}/a{ij}$;
186  // calculate $a_{ij} =
187  \sin x$
188  a[i,j]=sin(x)
189  foo="a word";
190  foo="a $x^2$ math";
191  \end{lstlisting}
192
```

```
193  \begin{lstlisting}[language=c,escapechar=\%,escapebegin=\textless,escapeend=\tex
194  // calculate %$a_{ij}$%
195  a_{ij}
196   = a_{jj}/a{ij};
197  \end{lstlisting}
198
199  \begin{lstlisting}[language=c,numbers=left,stringstyle=\ttfamily]
200  // calculate $a_{ij}$
201  $a_{ij}
202   = a_{jj}/a{ij}$;
203  // calculate $a_{ij} =
204  \sin x$
205  a[i,j]=sin(x)
206  foo="a word";
207  foo="a \"string";
208  foo="a $x^2$ math";
209  \end{lstlisting}
210
211  \section{A Perl Listing}
212  \lstinputlisting[language=perl]{any.sty.ltxml}
213
214  \section{A Recursive \TeX\ listing}
215  \lstinputlisting[language={[LaTeX]TeX}]{listing.tex}
216
217  \section{Testing Tag}
218  % AHA, tagstyle only is in effect with XML (?)
219  \begin{lstlisting}[language=XML,tagstyle=\bf]
220  <element attr='value'>content</element>
221  \end{lstlisting}
222  \begin{lstlisting}[language=XML,tagstyle=\bf,usekeywordsintag=false]
223  <element attr='value'>content</element>
224  \end{lstlisting}
225  \begin{lstlisting}[language=XML,tagstyle=\bf,markfirstintag]
226  <element attr='value'>content</element>
227  \end{lstlisting}
228
229  \section{Screwiness}
230  \lstdefinelanguage{bingo}{morekeywords={foo,bar},morekeywords=[2]{bing,bar}}
231  %,
232  % AHA, words can only be in one class (1st one declared?)
233  % BUT, index is separate, and classname is without the "style" !!
234  \begin{lstlisting}[language=bingo,keywordstyle=\bfseries,keywordstyle={[2]\itsha
235  foo bar baz bing booboo
236  \end{lstlisting}
237  {\bfseries\itshape bfit}
238  {\itshape\bfseries itbf}
```

9

```
239   \printindex
240   \end{document}
```

11   Testing Tag

1   **<element attr='value'>**content**</element>**

1   **<element attr='value'>**content**</element>**

1   **<element attr='value'>**content**</element>**

12   Screwiness

1   **foo bar** baz *bing* booboo

bfit itbf