

1 Introduction

This document contains the following listings:

Listings

1	Another bit of Pascal	2
2	A C language listing	3
	any.sty.ltxml	4
	listing.tex	4

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` .

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_underscore_string' );
Write( 'Pascal_keywords.' );

```

A Titled listing:

A bit of Pascal

```

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) :

Listing 1: Another bit of Pascal

```

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
begin
  { do nothing }
end;

```

1
2
3
4

```

for i:=maxint to 0 do
begin
  { do nothing }
end;

```

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

```

```

1 // calculate  $\langle a_{ij} \rangle$ 
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 \section{An untyped Listing}
22 No options, language, etc
23 \begin{lstlisting}
24 stuff1

```

```

25 stuff2
26 stuff3
27 \end{lstlisting}
28
29 \section{Some C}
30
31 \begin{lstlisting}[language=C, identifierstyle=\slshape, directivestyle=\ttfamily]
32 #define EXAMPLE whichwhat
33 x = "foo";
34 break;
35 \end{lstlisting}
36
37 \section{A Pascal Listing}
38 A listing portion:
39 \begin{lstlisting}[language=Pascal, firstline=2, lastline=5, caption={}]
40 for i:=maxint to 0 do
41 begin
42   { do nothing }
43 end;
44
45 Write('case insensitive ');
46 Write('long '' string ');
47 Write('Pascal keywords. ');
48 \end{lstlisting}
49
50 A numbered listing:
51 \begin{lstlisting}[language=Pascal, numbers=left, numberstyle=\tiny, stepnumber=2]
52 for i:=maxint to 0 do
53   begin
54     { do nothing }
55   end;
56
57 Write('case insensitive ');
58 Write('long '' string ');
59 Write('Pascal keywords. ');
60 \end{lstlisting}
61
62 A Titled listing:
63 \begin{lstlisting}[language=Pascal, title={A bit of Pascal}]
64 for i:=maxint to 0 do
65 begin
66   { do nothing }
67 end;
68 Write('case insensitive ');
69 \end{lstlisting}
70

```

```

71
72 A Captioned listing (known as Listing \ref{pascallisting}) :
73 \begin{lstlisting}[language=Pascal,caption=Another bit of Pascal, label=pascallis
74 for i:=maxint to 0 do
75 begin
76   { do nothing }
77 end;
78 \end{lstlisting}
79
80 \section{An Environment}
81 \begin{lstlisting}[language=Pascal]
82 for i:=maxint to 0 do
83 begin
84   { do nothing }
85 end;
86 \end{lstlisting}
87
88 \lstnewenvironment{colored}[1]{\lstset{language=Pascal,numbers=right,numberstyle
89 \begin{colored}{red}
90 for i:=maxint to 0 do
91 begin
92   { do nothing }
93 end;
94 \end{colored}
95
96 \begin{colored}{blue}
97 for i:=maxint to 0 do
98 begin
99   { do nothing }
100 end;
101 \end{colored}
102
103 \section{Framing and such}
104 \lstset{backgroundcolor=\color[named]{CarnationPink}}
105 \begin{lstlisting}[language=Pascal,frame=single,rulecolor=\color{red}]
106 for i:=maxint to 0 do
107 begin
108   { do nothing }
109 end;
110 \end{lstlisting}
111
112 \begin{lstlisting}[language=Pascal,frameround=tttt,backgroundcolor=\color{yellow}
113 for i:=maxint to 0 do
114 begin
115   { do nothing }
116 end;

```

```

117 \end{lstlisting}
118 \lstset{backgroundcolor=}
119 \begin{lstlisting}[language=Pascal,frame=single]
120 for i:=maxint to 0 do
121 begin
122   { do nothing }
123 end;
124 \end{lstlisting}
125
126 \begin{lstlisting}[language=Pascal,frame=lines]
127 for i:=maxint to 0 do
128 begin
129   { do nothing }
130 end;
131 \end{lstlisting}
132
133 \begin{lstlisting}[language=C,identifierstyle=\slshape,directivestyle=\ttfamily,
134 caption=A C language listing, frame=lines,backgroundcolor={\color[cm]{0,0,0,0.
135 #define EXAMPLE whichwhat
136 x = "foo";
137 break;
138 \end{lstlisting}
139
140 \section{Listing with Math}
141 \begin{lstlisting}[language=c,txcl,commentstyle=\color{green}]
142 // \upshape calculate $a_{ij}$
143 a[i][j] = a[j][j]/a[i][j];
144 \end{lstlisting}
145
146 \begin{lstlisting}[txcl,language=c]
147 // \upshape calculate $a_{ij}$
148 a[i][j] = a[j][j]/a[i][j];
149 \end{lstlisting}
150
151 \begin{lstlisting}[language=c,mathescape,numbers=left,commentstyle=\color{green}]
152 // calculate $a_{ij}$
153 $a_{ij}$
154 = a_{jj}/a{ij}$;
155 // calculate $a_{ij}$ =
156 \sin x$
157 a[i,j]=sin(x)
158 foo="a word";
159 foo="a $x^2$ math";
160 \end{lstlisting}
161
162 \begin{lstlisting}[language=c,escapechar=\%,escapebegin=\textless,escapeend=\tex

```

```

163 // calculate  $a_{ij}$ 
164 a_{ij}
165 = a_{jj}/a{ij};
166 \end{lstlisting}
167
168 \begin{lstlisting}[language=c,numbers=left,stringstyle=\ttfamily]
169 // calculate  $a_{ij}$ 
170  $a_{ij}$ 
171 =  $a_{jj}/a{ij}$ ;
172 // calculate  $a_{ij}$  =
173 \sin x$
174 a[i,j]=sin(x)
175 foo="a word";
176 foo="a \"string\";
177 foo="a  $x^2$  math";
178 \end{lstlisting}
179
180 \section{A Perl Listing}
181 \lstinputlisting[language=perl]{any.sty.ltxml}
182
183 \section{A Recursive \TeX\ listing}
184 \lstinputlisting[language={[LaTeX]TeX}]{listing.tex}
185
186 \section{Testing Tag}
187 % AHA, tagstyle only is in effect with XML (?)
188 \begin{lstlisting}[language=XML,tagstyle=\bf]
189 <element attr='value'>content</element>
190 \end{lstlisting}
191 \begin{lstlisting}[language=XML,tagstyle=\bf,usekeywordsintag=false]
192 <element attr='value'>content</element>
193 \end{lstlisting}
194 \begin{lstlisting}[language=XML,tagstyle=\bf,markfirstintag]
195 <element attr='value'>content</element>
196 \end{lstlisting}
197
198 \section{Screwiness}
199 \lstdefinelanguage{bingo}{morekeywords={foo,bar},morekeywords=[2]{bing,bar}}
200 %,
201 % AHA, words can only be in one class (1st one declared?)
202 % BUT, index is separate, and classname is without the "style" !!
203 \begin{lstlisting}[language=bingo,keywordstyle=\bfseries,keywordstyle={ [2]\itshape}
204 foo bar baz bing booboo
205 \end{lstlisting}
206 {\bfseries\itshape bfit}
207 {\itshape\bfseries itbf}
208 \printindex

```


209 \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