

# 1 Introduction

This document contains the following listings:

## Listings

|   |                                 |   |
|---|---------------------------------|---|
| 1 | Another bit of Pascal . . . . . | 1 |
|   | any.sty.ltxml . . . . .         | 3 |
|   | listing.tex . . . . .           | 3 |

## 2 Inline Listings

Various delimiters: `a_word`, `a_word`, `a_word`, `a_word` and even `a_word` done.

## 3 A Pascal Listing

A listing portion:

```
2 begin
3   { do nothing }
4 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:

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;

```

## 4 An Environment

```

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;

```

## 5 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";

```

## 6 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;

```

## 7 A Recursive T<sub>E</sub>X listing

```

1 \documentclass{article}
2 \usepackage{makeidx}
3 \makeindex
4 \usepackage{listings}
5 \usepackage{color}
6 \begin{document}
7 \lstset{numbers=left}
8
9 \section{Introduction}
10 This document contains the following listings:
11 \lstlistoflistings
12
13 \section{Inline Listings}
14 Various delimiters: \lstinline{a_word},
15 \lstinline!a_word!, \lstinline Aa_wordA,
16 \lstinline&a_word& and even \lstinline^a_word^ done.
17
18 \section{A Pascal Listing}
19 A listing portion:
20 \begin{lstlisting}[language=Pascal,firstline=2,lastline=5,caption={}]
21 for i:=maxint to 0 do
22 begin
23   { do nothing }
24 end;
25

```

```

26 Write('case insensitive ');
27 Write('long ' ' string ');
28 Write('Pascal keywords. ');
29 \end{lstlisting}
30
31 A numbered listing:
32 \begin{lstlisting}[language=Pascal,numbers=left , numberstyle=\tiny , stepnumber=2
33 for i:=maxint to 0 do
34     begin
35         { do nothing }
36     end;
37
38 Write('case insensitive ');
39 Write('long ' ' string ');
40 Write('Pascal keywords. ');
41 \end{lstlisting}
42
43 A Titled listing:
44 \begin{lstlisting}[language=Pascal,title={A bit of Pascal}]
45 for i:=maxint to 0 do
46     begin
47         { do nothing }
48     end;
49 Write('case insensitive ');
50 \end{lstlisting}
51
52
53 A Captioned listing (known as Listing \ref{pascallisting}) :
54 \begin{lstlisting}[language=Pascal,caption=Another bit of Pascal , label=pascallisting]
55 for i:=maxint to 0 do
56     begin
57         { do nothing }
58     end;
59 \end{lstlisting}
60
61 \section{An Environment}
62 \begin{lstlisting}[language=Pascal]
63 for i:=maxint to 0 do
64     begin
65         { do nothing }
66     end;
67 \end{lstlisting}
68
69 \lstnewenvironment{colored}[1]{\lstset{language=Pascal,numbers=left , numberstyle=
70 \begin{colored}{red}
71 for i:=maxint to 0 do

```

```

72 begin
73   { do nothing }
74 end;
75 \end{colored}
76
77 \begin{colored}{blue}
78 for i:=maxint to 0 do
79   begin
80     { do nothing }
81   end;
82 \end{colored}
83
84 \section{Listing with Math}
85 \begin{lstlisting}[language=c, texcl]
86 // \upshape calculate $a_{ij}$
87 a[i][j] = a[j][j]/a[i][j];
88 \end{lstlisting}
89
90 \begin{lstlisting}[texcl, language=c]
91 // \upshape calculate $a_{ij}$
92 a[i][j] = a[j][j]/a[i][j];
93 \end{lstlisting}
94
95 \begin{lstlisting}[language=c, mathescape, numbers=left]
96 // calculate $a_{ij}$
97 $a_{ij}$
98 = a_{jj}/a_{ij}$;
99 // calculate $a_{ij}$ =
100 \sin x$
101 a[i,j]=sin(x)
102 foo="a word";
103 foo="a $x^2$ math";
104 \end{lstlisting}
105
106 \begin{lstlisting}[language=c, escapechar=\%, escapebegin=\textless, escapeend=\textright]
107 // calculate %$a_{ij}$%
108 a_{ij}
109 = a_{jj}/a_{ij};
110 \end{lstlisting}
111
112 \begin{lstlisting}[language=c, numbers=left, stringstyle=\ttfamily]
113 // calculate $a_{ij}$
114 $a_{ij}$
115 = a_{jj}/a_{ij}$;
116 // calculate $a_{ij}$ =
117 \sin x$

```

```

118 a[i,j]=sin(x)
119 foo="a word";
120 foo="a \"string\";
121 foo="a $x^2$ math";
122 \end{lstlisting}
123
124 \section{A Perl Listing}
125 \lstinputlisting[language=perl]{any.sty.ltxml}
126
127 \section{A Recursive \TeX\ listing}
128 \lstinputlisting[language={[LaTeX]TeX}]{listing.tex}
129
130 \section{Testing Tag}
131 % AHA, tagstyle only is in effect with XML (?)
132 \begin{lstlisting}[language=XML,tagstyle=\bf]
133 <element attr='value'>content</element>
134 \end{lstlisting}
135 \begin{lstlisting}[language=XML,tagstyle=\bf,usekeywordsintag=false]
136 <element attr='value'>content</element>
137 \end{lstlisting}
138 \begin{lstlisting}[language=XML,tagstyle=\bf,markfirstintag]
139 <element attr='value'>content</element>
140 \end{lstlisting}
141
142 \section{Screwiness}
143 \lstdefinelanguage{bingo}{morekeywords={foo,bar},morekeywords=[2]{bing,bar}}
144 %,
145 % AHA, words can only be in one class (1st one declared?)
146 % BUT, index is separate, and classname is without the "style" !!
147 \begin{lstlisting}[language=bingo,keywordstyle=\bfseries,keywordstyle={[2]\itshape}
148 foo bar baz bing booboo
149 \end{lstlisting}
150 {\bfseries\itshape bfit}
151 {\itshape\bfseries itbf}
152 \printindex
153 \end{document}

```

## 8 Testing Tag

```

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

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

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

```

## 9 Screwiness

```
1  foo bar baz bing booboo  
   bfit itbf
```