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.

3 An untyped Listing

No options, language, etc

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

4 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:

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;
```

5 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;
```

6 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 x^2 math";
```

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

```
// calculate $a_{ij}$
$a_{ij}
 = a_{jj}/a{ij}$;
// calculate $a_{ij} =
\sin x$
a[i,j]=sin(x)
foo="a␣word";
foo="a␣\"string";
foo="a␣$x^2$␣math";
```

7 A Perl Listing

```
# -*- CPERL -*-
package LaTeXML::Package::Pool;
use strict;
use LaTeXML::Package;

DefConstructor('\container{}',"<ltx:special>#1</ltx:special>");
DefConstructor('\foo',"<ltx:not-defined/>");

1;
```

8 A Recursive TEX listing

```
\documentclass{article}
\usepackage{makeidx}
\makeindex
\usepackage{listings}
\usepackage{color}
\begin{document}
\lstset{numbers=left}

\section{Introduction}
This document contains the following listings:
\lstlistoflistings

\section{Inline Listings}
Various delimiters: \lstinline{a_word},
\lstinline!a_word!, \lstinline Aa_wordA,
\lstinline&a_word& and even \lstinline^a_word^ done.

```

```
18 \section{An untyped Listing}
19 No options, language, etc
20 \begin{lstlisting}
21 stuff1
22 stuff2
23 stuff3
24 \end{lstlisting}
25
26 \section{A Pascal Listing}
27 A listing portion:
28 \begin{lstlisting}[language=Pascal,firstline=2,lastline=5,caption={}]
29 for i:=maxint to 0 do
30 begin
31   { do nothing }
32 end;
33
34 Write('case insensitive');
35 Write('long '' string');
36 WritE('Pascal keywords.');
37 \end{lstlisting}
38
39 A numbered listing:
40 \begin{lstlisting}[language=Pascal,numbers=left, numberstyle=\tiny, stepnumber=2
41 for i:=maxint to 0 do
42         begin
43                 { do nothing }
44         end;
45
46 Write('case insensitive');
47 Write('long '' string');
48 WritE('Pascal keywords.');
49 \end{lstlisting}
50
51 A Titled listing:
52 \begin{lstlisting}[language=Pascal,title={A bit of Pascal}]
53 for i:=maxint to 0 do
54 begin
55   { do nothing }
56 end;
57 Write('case insensitive');
58 \end{lstlisting}
59
60
61 A Captioned listing (known as Listing \ref{pascallisting}) :
62 \begin{lstlisting}[language=Pascal,caption=Another bit of Pascal, label=pascallis
63 for i:=maxint to 0 do
```

```
64  begin
65    { do nothing }
66  end;
67  \end{lstlisting}
68
69  \section{An Environment}
70  \begin{lstlisting}[language=Pascal]
71  for i:=maxint to 0 do
72  begin
73    { do nothing }
74  end;
75  \end{lstlisting}
76
77  \lstnewenvironment{colored}[1]{\lstset{language=Pascal,numbers=left,numberstyle=
78  \begin{colored}{red}
79  for i:=maxint to 0 do
80  begin
81    { do nothing }
82  end;
83  \end{colored}
84
85  \begin{colored}{blue}
86  for i:=maxint to 0 do
87  begin
88    { do nothing }
89  end;
90  \end{colored}
91
92  \section{Listing with Math}
93  \begin{lstlisting}[language=c,texcl]
94  // \upshape calculate $a_{ij}$
95  a[i][j] = a[j][j]/a[i][j];
96  \end{lstlisting}
97
98  \begin{lstlisting}[texcl,language=c]
99  // \upshape calculate $a_{ij}$
100 a[i][j] = a[j][j]/a[i][j];
101 \end{lstlisting}
102
103 \begin{lstlisting}[language=c,mathescape,numbers=left]
104 // calculate $a_{ij}$
105 $a_{ij}
106  = a_{jj}/a{ij}$;
107 // calculate $a_{ij} =
108 \sin x$
109 a[i,j]=sin(x)
```

```
foo="a word";
foo="a $x^2$ math";
\end{lstlisting}

\begin{lstlisting}[language=c,escapechar=\%,escapebegin=\textless,escapeend=\tex
// calculate %$a_{ij}$%
a_{ij}
 = a_{jj}/a{ij};
\end{lstlisting}

\begin{lstlisting}[language=c,numbers=left,stringstyle=\ttfamily]
// calculate $a_{ij}$
$a_{ij}
 = a_{jj}/a{ij}$;
// calculate $a_{ij} =
\sin x$
a[i,j]=sin(x)
foo="a word";
foo="a \"string";
foo="a $x^2$ math";
\end{lstlisting}

\section{A Perl Listing}
\lstinputlisting[language=perl]{any.sty.ltxml}

\section{A Recursive \TeX\ listing}
\lstinputlisting[language={[LaTeX]TeX}]{listing.tex}

\section{Testing Tag}
% AHA, tagstyle only is in effect with XML (?)
\begin{lstlisting}[language=XML,tagstyle=\bf]
<element attr='value'>content</element>
\end{lstlisting}
\begin{lstlisting}[language=XML,tagstyle=\bf,usekeywordsintag=false]
<element attr='value'>content</element>
\end{lstlisting}
\begin{lstlisting}[language=XML,tagstyle=\bf,markfirstintag]
<element attr='value'>content</element>
\end{lstlisting}

\section{Screwiness}
\lstdefinelanguage{bingo}{morekeywords={foo,bar},morekeywords=[2]{bing,bar}}
%,
% AHA, words can only be in one class (1st one declared?)
% BUT, index is separate, and classname is without the "style" !!
\begin{lstlisting}[language=bingo,keywordstyle=\bfseries,keywordstyle={[2]\itsha
```

```
156 foo bar baz bing booboo
157 \end{lstlisting}
158 {\bfseries\itshape bfit}
159 {\itshape\bfseries itbf}
160 \printindex
161 \end{document}
```

9 Testing Tag

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

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

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

10 Screwiness

```
1 foo bar baz bing booboo
```

bfit itbf