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 .

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');
Write('long '' string');
WritE('Pascal keywords.');
```

A Titled listing:

A bit of Pascal

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

A Captioned listing (known as Listing 1) :

Listing 1: Another bit of Pascal

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

6 An Environment

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

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

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

7 Framing and such

```
for i:=maxint to 0 do
begin
  { do nothing }
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 x^2 math";
```

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

```
1  // calculate $a_{ij}$
2  $a_{ij}
3   = a_{jj}/a{ij}$;
```

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

9 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;
```

10 A Recursive TEX listing

```
\documentclass{article}
\usepackage{makeidx}
\makeindex
\usepackage{listings}
\usepackage[dvipsnames]{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.

\def\justcopy#1{#1}
Indirectly: \justcopy{\lstinline|a_word|};
and with messed up braces \lstinline{foo { bar }.% }

\section{An untyped Listing}
No options, language, etc
\begin{lstlisting}
stuff1
```

```
stuff2
stuff3
\end{lstlisting}

\section{Some C}

\begin{lstlisting}[language=C,identifierstyle=\slshape,directivestyle=\ttfamily]
#define EXAMPLE whichwhat
x = "foo";
break;
\end{lstlisting}

\section{A Pascal Listing}
A listing portion:
\begin{lstlisting}[language=Pascal,firstline=2,lastline=5,caption={}]
for i:=maxint to 0 do
begin
  { do nothing }
end;

Write('case insensitive');
Write('long '' string');
WritE('Pascal keywords.');
\end{lstlisting}

A numbered listing:
\begin{lstlisting}[language=Pascal,numbers=left, numberstyle=\tiny, stepnumber=2
for i:=maxint to 0 do
        begin
                { do nothing }
        end;

Write('case insensitive');
Write('long '' string');
WritE('Pascal keywords.');
\end{lstlisting}

A Titled listing:
\begin{lstlisting}[language=Pascal,title={A bit of Pascal}]
for i:=maxint to 0 do
begin
  { do nothing }
end;
Write('case insensitive');
\end{lstlisting}

```

```
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;
```

```
\end{lstlisting}
\lstset{backgroundcolor=}
\begin{lstlisting}[language=Pascal,frame=single]
for i:=maxint to 0 do
begin
  { do nothing }
end;
\end{lstlisting}

\begin{lstlisting}[language=Pascal,frame=lines]
for i:=maxint to 0 do
begin
  { do nothing }
end;
\end{lstlisting}

\begin{lstlisting}[language=C,identifierstyle=\slshape,directivestyle=\ttfamily,
caption=A C language listing, frame=lines,backgroundcolor={\color[cmyk]{0,0,0,0.
#define EXAMPLE whichwhat
x = "foo";
break;
\end{lstlisting}

\section{Listing with Math}
\begin{lstlisting}[language=c,texcl,commentstyle=\color{green}]
// \upshape calculate $a_{ij}$
a[i][j] = a[j][j]/a[i][j];
\end{lstlisting}

\begin{lstlisting}[texcl,language=c]
// \upshape calculate $a_{ij}$
a[i][j] = a[j][j]/a[i][j];
\end{lstlisting}

\begin{lstlisting}[language=c,mathescape,numbers=left,commentstyle=\color{green}
// calculate $a_{ij}$
$a_{ij}
 = a_{jj}/a{ij}$;
// calculate $a_{ij} =
\sin x$
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
foo bar baz bing booboo
\end{lstlisting}
{\bfseries\itshape bfit}
{\itshape\bfseries itbf}
\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
```