MATHML

ConTEXt XML

Pragma ADE / Hasselt NL

Description

This module is just a wrapper around the MATHML filters `xtag-*`. It loads support for both content and presentational math as well as the entity definitions needed. For details we refer to the CONTEXT MATHML manual and the official MATHML specification.

Structure

In addition to the official MATHML commands, we provide a simple in–line math element:

```
<m>a+t=h</m>
```

There is no additional structure here and this method should only be used in unambiguous cases, i.e. simple expressions like $a+t=h$. In no way should TEX commands be embedded, so normally you will only use this method for formulas like the above.

Usage

This module is loaded as any module:

```
\usemodule[mathml]
```

XML example

Compared to their TEX counterparts, formulas coded in MATHML are rather verbose and take much more tokens.

```
<math>
  <apply> <sin/>
    <apply> <plus/>
      <ci> a </ci>
      <cn> 2 </cn>
    </apply>
  </apply>
</math>
```

This is typeset as:

$$\sin(a + 2)$$

TEX example

There are no associated TEX commands since TEX has its own idiom for math. The previous example can be coded as:

```
\startformula \sin(a+2) \stopformula
```

Configuring

You can influence the layout of formulas by either processing instructions or style directives. These are described in the CONTEXT MATHML manual.

Documentation

Details about MATHML coding and the specific processing instructions can be found in the MATHML manual that comes with CONTEXT. Examples can be found in the accompanying MATHML example suite.

Colofon

This manual is part of the CONTEXT distribution, and is authored and maintained by Hans Hagen. CONTEXT is developed at PRAGMA ADE, Hasselt, The Netherlands. This manual is produced on October 26, 2001.