Welcome to MathML how to present your math content

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T_EX is a general purpose typographic (macro) programming language.

T_EX has a pretty good reputation for typesetting (complicated) math formulas.

T_EX uses 's and 's and other funny characters to signal special actions.

T_EX is almost 20 years old, and that's makes its users a weird species.

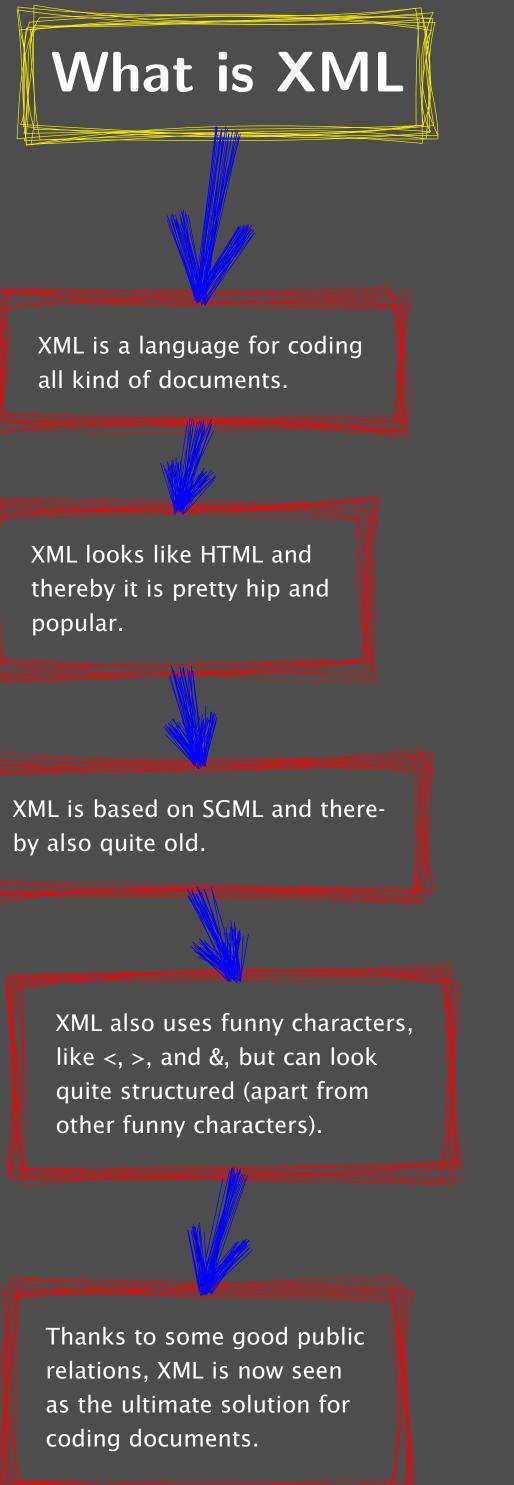
Although T_EX can be used to make beautiful documents, it is (no longer) a first choice for typesetting jobs.

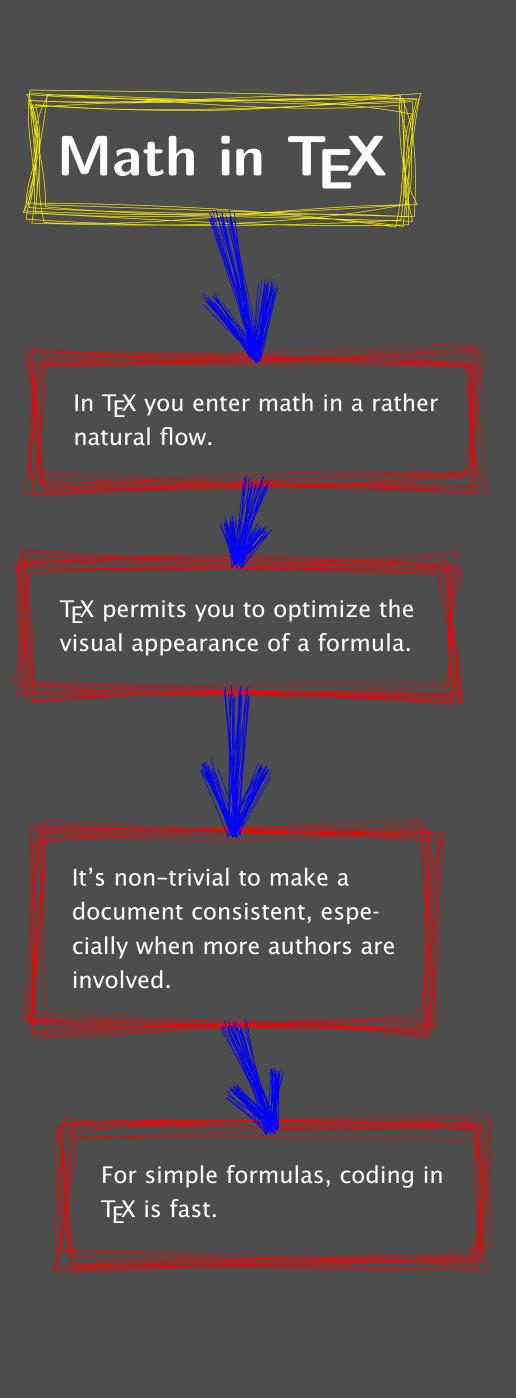
Many T_EX documents sources look awful.

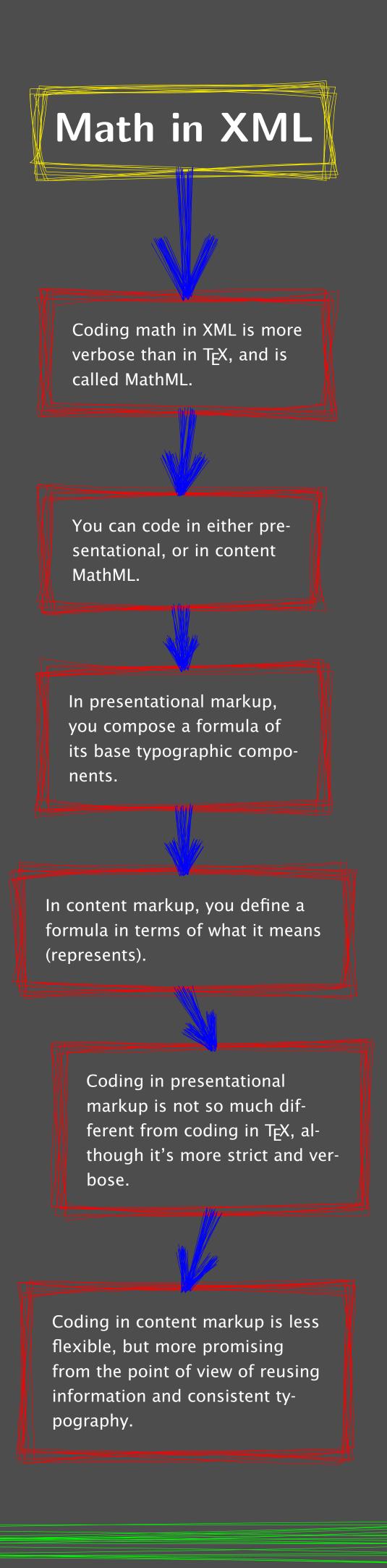
popular. by also quite old.

coding documents.









Presentational Markup

You can summarize presentational markup as: what you key is what you get.

x = 1

<math> <mrow> <mi>x</mi> <mo>=</mo> <mn>1</mn> </mrow>

$\chi \le 1$

<math> <mrow>

<mi>x</mi> <mo>≤</mo> <mn>1</mn> </mrow>

$\sin x^2$

<math> <mrow> <mi>sin</mi> <mo>⁡</mo> <msup> <mi>x</mi> <mn>2</mn> </msup> </mrow>

 $(\sin x)^2$

<math>

<msup> <mfenced> <mi>sin</mi> <mi>x</mi> </mfenced> <mn>2</mn> </msup>

what you think.

<math> </apply>

x = 1

 $x \le 1$

<math> <apply> <leq/> </apply>

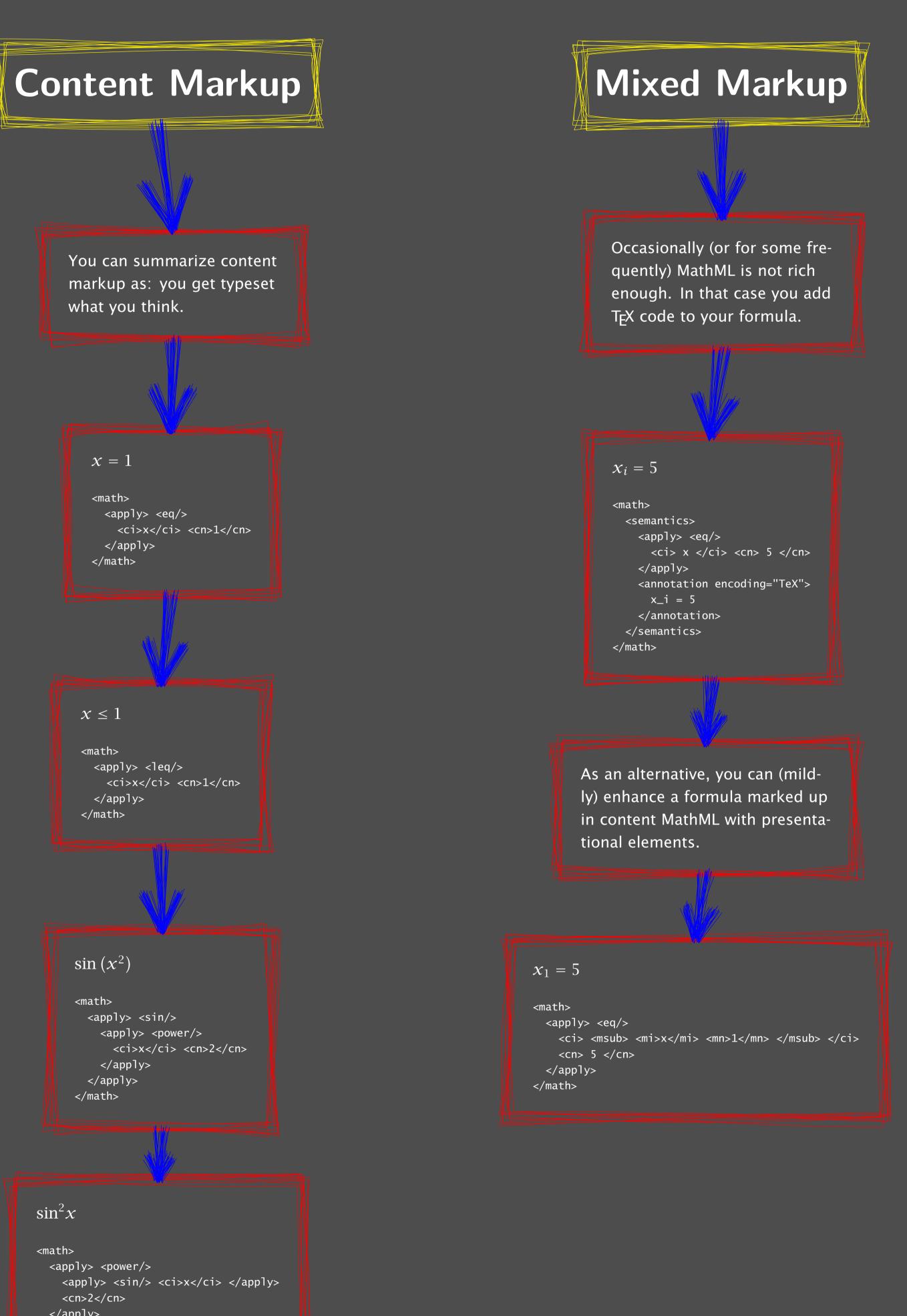
$\sin(x^2)$

<math> <apply> <sin/> </apply> </apply>

$\sin^2 x$

<math> <apply> <power/> <cn>2</cn> </apply>







Processing Instruction

Given that the formulas are coded consistently, you can influence the layout by providing local or global processing instructions.

$\log_7 x$

<math> <apply> <log/> <logbase> <ci>7</ci> </logbase> <ci>x</ci> </apply>

$^{7}\log x$

<math> <?context-mathml-directive log location left?> <apply> <log/>

<logbase> <ci>7</ci> </logbase> <ci>x</ci> </apply>

MathML in ConT_EXt

In ConT_EXt, XML support is build into the kernel.

MathML support is supported by core xtag filters, to be loaded at runtime.

You can embed MathML in normal ConT_EXt documents:

\startXMLdata $...$ \stopXMLdata \XMLdata {$...$}

Such mixed documents can be converted to pure XML quite easily, which provides a nice migration path.

> There will be much more layout options, as well as support for units, chemistry, and complex formula building.

There is a MathML manual, an example suite, and a experimentation site. And there will be more.



