



Math Authoring for Everyone

How to Create and Edit
Equations with MathFlow in
MadCap Flare





Introduction

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Design Science

- MathType
 - Word's equation editor
- MathFlow
 - Used in MadCap Flare



Overview

- What are the benefits of MathML?
- Where can I use MathML?
- What are the main benefits of the MathFlow Editor in MadCap Flare?
- Demo
- Conclusion
- Questions



What is MathML?

- MathML = Mathematical Markup Language
- Standard maintained by the W3C
- Part of many output formats, such as:
 - DocBook
 - DITA
 - EPUB
 - HTML5



Why Use MathML?

- MathML, XML, and the MadCap editing environment separate content + style
- Apply different styles, without changing the meaning
- Format for different outputs
- Cross-reference parts of equations



Interoperability

- Wide support of MathML in applications:
 - Computer Algebra Systems
 - Graphing
 - Calculators
 - Assessment creators
 - Whiteboards
 - Etc.



Searchability

- Information Age
- Search is key to navigating through all of that information
- Math search on the horizon
- Active projects using MathML:
 - EgoMath
 - MathWebSearch

Localization

$$\begin{array}{r} 16.5 \\ 12 \overline{)198} \\ \underline{12} \\ 78 \\ \underline{72} \\ 6.0 \\ \underline{6.0} \\ 0 \end{array}$$

$$\begin{array}{r} 198 \\ \underline{12} \\ 78 \\ \underline{72} \\ 6,0 \\ \underline{6,0} \\ 0 \end{array} \quad \left| \begin{array}{r} 12 \\ \underline{12} \\ 16,5 \end{array} \right.$$



Flexibility

- Stylesheets give you power over presentation
- Different styles for different output formats
- Target a range of devices:
 - Mobile devices
 - PCs
 - Retina display



Accessibility

- No need to limit your audience!
- The accessibility community favors MathML
 - NIMAS
 - DAISY
 - EPUB 3
 - Etc.



MadCap Flare and MathML

- MadCap Flare supports MathML editing
- Edit equations using Design Science MathFlow editor
- Output formats include equations
- MathFlow editor created by experts, so you don't have to be



MathFlow Editor

- Meets diverse needs
 - Subject Matter Experts (SMEs)
 - Need to create and edit content
 - Mostly use Design view
 - Documentation Specialists
 - Ensure MathML conforms to enterprise standards
 - May need to “clean up” content created elsewhere
 - Use Design view and Source view



Demo



Conclusion

- Many advantages to working with MathML content
 - Interoperability
 - Searchability
 - Localization
 - Flexibility
 - Accessibility



Conclusion

- MadCap Flare includes the MathFlow editor
- Both SMEs and documentation specialists can use it
- MathFlow takes care of the details so you don't need to be a MathML expert to get expert results

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