
Re: [Athen] [EXTERNAL *] Re: Creating accessible math with MathKicker

From athen-list <athen-list-bounces@mailman12.u.washington.edu>

on behalf of

Mark Weiler <mweiler@wlu.ca>

Date Fri 3/1/2024 4:33 AM

To Access Technology Higher Education Network <athen-list@u.washington.edu>

 1 attachment (484 bytes)

ATT00001.txt;

What protocols are folks using to verify that the generated mathematical expressions are correct? For example, when verifying it are folks basing it on a few examples of simple math content or more complex math content?

I imagine at some level subject matter expertise in math is needed to know if what is generated is actually true to the source material.

It sure is nice to hear math expressed in language, but I'm not sure if what I'm hearing with JAWS is true to the source that I see with my eyes.

Mark Weiler, PhD (he & him)
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Notices

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From: athen-list <athen-list-bounces@mailman12.u.washington.edu> **On Behalf Of** foreigntype@gmail.com

Sent: Thursday, February 29, 2024 1:56 PM

To: Access Technology Higher Education Network <athen-list@u.washington.edu>

Subject: [EXTERNAL *] Re: [Athen] Creating accessible math with MathKicker

Thanks for that tip, Steve!

Wink Harner
Assistive Technology Consulting and Training
Alternative Text Production
Portland OR.

foreigntype@gmail.com

On Thu, Feb 29, 2024 at 10:27 AM Noble, Stephen <steve.noble@louisville.edu> wrote:

Concerning braille production using DBT, you will likely get a more usable Word document if you take what MathKicker gives you and then use MathType's command to covert all the OMML expressions to MathType expression. DBT works well with MathType expressions: [Using MathType with Duxbury Braille Translator \(wiris.com\)](http://www.wiris.com).

This assumes you have MathType on hand. If not, it is not that expensive to purchase.

I agree that the HTML output is disappointing. They went to the effort to build in MathJax's SVG output but left out the MathML so there's nothing for a screenreader to read.

--Steve Noble
steve.noble@louisville.edu
502-969-3088

From: athen-list <athen-list-bounces@mailman12.u.washington.edu> on behalf of Michael Cantino <mcantino@nwresd.k12.or.us>

Sent: Thursday, February 22, 2024 3:49 PM

To: athen-list@u.washington.edu <athen-list@u.washington.edu>

Subject: Re: [Athen] Creating accessible math with MathKicker

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I tested this out briefly last week. I had similar results to what others here have reported. I tested on Windows 10 with JAWS 2023.

- OCR was surprisingly good
- Math content in the HTML output couldn't be read by the screen reader
- Word documents worked best. JAWS read all the math really well and provided a good Nemeth transcription on the braille display
- I opened the Word file in Duxbury to see how well Duxbury translated the document. The math was an absolute mess.

Overall, good for converting documents on the fly and reading with a screen reader. Currently doesn't look great for a braille production workflow.

Michael Cantino (he/him)
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