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Voice Recognition & Mathematics

Reclaiming a Lost Technology

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206 + 6









Motivations







• Resources come and go due to **proprietary code**.

Diversity: Students with disabilities, access to STEM

Access to **professionals** who sustain injuries

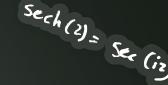
College disability offices unaware of accessibility resources

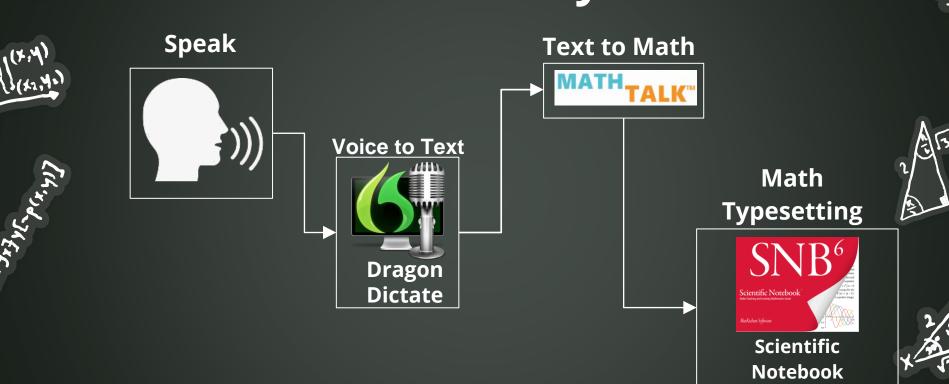
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Previously





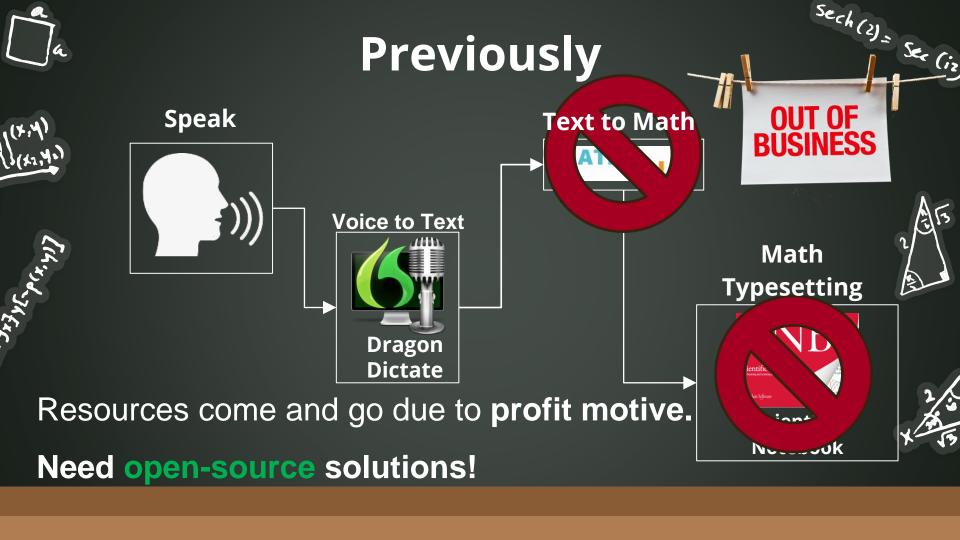
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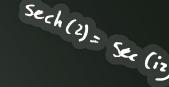


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NOW







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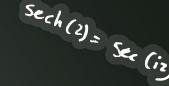




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To Do List

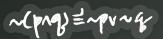
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- Marketing: Few people know of these tools
 - Disability offices
 - Instructors
 - Students with disabilities/parents
 - Instructors/professionals who sustain injuries
- Find/develop open-source voice recognition (VR) with OS scripting
- Develop open-source text-to-math scripts connecting VR to Lyx.

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Dictating Resources

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- Nuance's Dragon Dictate (<u>Dragon-Dictate.us</u>) (proprietary code)
- Talon (<u>TalonVoice.com</u>) (<u>proprietary code</u>)
- Lyx (<u>Lyx.org</u>) (open-source)
- Me (<u>MathTalker.org</u>)

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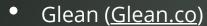
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Other Resources

(not at all comprehensive, and all of them are for-profit)



- Class note-taking tool
- Equatio (<u>Texthelp.com/products/equatio</u>)
 - Voice Recognition for simple math
 - Cross-platform, particularly Gdoc
 - Collaborative learning/teaching/assignments in "MathSpaces"
- LiquidText (<u>Liquidtext.net</u>)
 - PDF note taking/research/mind mapping tool
- Typst (Typst.app)
 - Like overleaf, but collaborative like Gdocs 🧿
 - Real-time compiling
 - More intuitive scripting than Latex













Credit to YouTube user Scrubadub:

LINK

Coding demo?









