



# Building New Paths to Accessibility



*People learn differently. Yet, education today does not fully support different learning needs, especially for people who cannot access books, math, images, video, and other learning materials due to a disability. DIAGRAM conducts research and development that creates innovative ways to access learning materials.*

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## Building Tools with Communities to Support All Learners

DIAGRAM creates tools, standards and best practices to support different learning needs. We engage a diverse community of stakeholders to develop new technologies to support the needs represented by a wide spectrum of disabilities. Our work is in four main areas.

- ✓ **New tools and technology.** We create new ways to produce and access educational content with tools like image descriptions, 3D printing, accessible video, MathML, and technical standards.
- ✓ **Community engagement.** We engage a community of technologists, educators, researchers, policy makers, parents, students, publishers, and other stakeholders to advance the field of accessibility around the world.
- ✓ **Knowledge dissemination.** We help stakeholders incorporate new tools and best practices through knowledge sharing and training.
- ✓ **Born Accessible.** We help publishers and content creators create ebooks and other educational materials that are accessible from the start.

## Tools and Resources for Content Creators and Users

### Math Accessibility Tools

- **MathML Cloud** – accessible math creation tool for publishers
- **Math Support Finder** – resource that helps users find tools that can read accessible math content

### Image Accessibility Tools and Resources

- **Diagrammar** – technical standards for image descriptions
- **Poet and Poet Training Module** – image description production tool and training platform
- **Accessible Image Sample Book** – best practice examples of image descriptions
- **Image Description Guidelines** – guidelines for describing common images
- **Quick Start Guide to 3D Printing** – resource for using 3D printing to create accessible educational objects

### STEM Accessibility Resources

- **Top Tips for Creating Accessible EPUB Files** – resource to help produce accessible ebook files
- **Webinars** – ongoing series of trainings and informational presentations
- **Community Engagement** – working groups, software development hackathons, cross-sector collaborations



***“The DIAGRAM Center provides a service to the entire book industry by creating and hosting accessibility guidelines for all to reference.”***

- HarperCollins Publishers

***“I am newly and totally blind. I went from teaching basic and pharmaceutical math as a sighted teacher to tutoring as a blind volunteer. This has jump-started my imagination. I am happy to hear that many people are working on math accessibility. It gives me hope.”***

- Educator

