



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.

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

