

# MathType 5.x

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## **Publisher:**

Design Science, Inc.  
4028 Broadway Ave.  
Long Beach, CA 90803  
USA

<http://www.dessci.com/en/>

Phone: 562-433-0685

FAX: 562-433-6969

General Information:

[info@dessci.com](mailto:info@dessci.com)

## **Retail Cost:**

Full Price (Academic): \$57.00

Upgrade Price (Academic): \$37.00

Check with Design Science for site license pricing

## **System Requirements:**

- Microsoft Windows® XP, 2000, Me, 98 SE or Apple Macintosh® OS 9 or OS X
- 10 to 20 MB hard disk space
- CD-ROM drive (can also download from Internet)

## **Description**

Design Science MathType™ for Windows and Macintosh is a powerful interactive tool that will revolutionize the way you create print and web-based documents that contain math. MathType works with any word processor, presentation program, page layout program, HTML-authoring tool, plus other types of software, to create equations for research papers, class materials, web pages, slide presentations, journal articles and books.

MathType provides several options for creating accessible math content. MathType can export mathematical expressions as images (GIF, PNG, etc.) or as MathML content. Web content can also be created from MS Word using the MathPage export function. Math equations created using the MathPage export are recognized by screen-reader technologies and read to the individual. Additionally, if using Internet Explorer, the MathPlayer plug-in provides the Web page with the capacity to "speak" the equation.

## Creating Math Equations for the Web

To create mathematical equations for the Web, it is first necessary to input the equations using MathType (in MS Word). Once the mathematical expressions have been entered into MS Word, there are several options for exporting the content in a Web-ready format.

### Exporting a Web page for Internet Explorer:

1. Choose MathType from the menu bar and choose **Export to MathPage**.
2. In the **Title** field, enter a title for the Web page. You can also select where the resulting file will be placed.
3. Select the radio button marked **MathML using:** and choose the MathPlayer (IE behavior) option from the drop-down list.
4. Select **OK**. MathType will then export the file and open the Web page within the Internet Explorer browser.

NOTE – You may receive an error message in IE that says Internet Explorer has restricted this file from showing active content. Click in the message and choose the option **Allow Blocked Content** and then select **Yes**. This will allow the math content to be displayed with the MathPlayer.

### Exporting a Web page for multi-browser functionality:

1. Choose MathType from the menu bar and choose **Export to MathPage**.
2. In the **Title** field, enter a title for the Web page. You can also select where the resulting file will be placed.
3. Uncheck the checkbox **Display in default browser**.
4. Select the radio button marked **MathML using:** and choose the **XHTML + MathML** option from the drop-down list.
5. Select **OK**.

MathType will create a **.xht** file that contains all the page information with mathematical content. You will need to create a hyperlink to this **.xht** file in order to view the relevant mathematical expressions using a Web browser.

NOTE – It is recommended to choose the "Exporting a Web page for multi-browser functionality:" option in order to best serve the widest audience possible. This will allow individuals using specialized assistive computer technology to access the necessary math

content as well as provide options to individuals using non-IE Web browsers (e.g., FireFox, Mozilla).

## Considerations

When creating mathematical expressions for the Web, it is important to remember the following guidelines.

If you are exporting MathType content using the "MathPlayer (IE behavior)" option, then individuals will be able to view the content **only** with the Internet Explorer browser.

If you are exporting MathType content using "XHTML+MathML" option, then individuals will be able to view the content with either Internet Explorer, Netscape 7, or Mozilla/FireFox.

It will be necessary to download the appropriate MathML fonts for Netscape 7+ and Mozilla/FireFox. You can download the appropriate MathML fonts at: <http://www.mozilla.org/projects/mathml/fonts> . The "Font Installer" is located in the right sidebar of the page.

Internet Explorer may not be able to view the Web page with the **.xht** extension if the file resides on the computer. If you upload the **.xht** file (and appropriate folder) to your Web server, then you will be able to view the Web page with your preferred browser (i.e., Internet Explorer, Mozilla/Firefox, Netscape 7+). You will need to ensure that your Web server can serve documents with the extension **.xht**. This can be accomplished by setting the appropriate MIME-type for your Web server. For more information, please visit: <http://www.dessci.com/en/products/mathplayer/author/creatingpages.htm>