



XPressMath 7 ReadMe

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XPressMath 7 ReadMe

XPressMath is XTensions® software for QuarkXPress® that adds powerful and sophisticated equation typesetting and production features for developing high-quality mathematical structures.

Introduction

XPressMath is XTensions software for QuarkXPress that adds powerful and sophisticated equation typesetting and production features for developing high-quality mathematical structures. XPressMath provides the following features:

- Comprehensive and powerful data setups
- Global editing capabilities
- Access to pi characters and alternative fonts
- The ability to define multiple points for vertical alignment
- Equation conversion to JPEG
- ASCII import and export for entering and archiving equations offline
- Macros to automate the creation of mathematical structures

System requirements

MAC OS

Software

- Mac OS® X 10.4.3 minimum
- QuarkXPress 7.31 minimum

Hardware

- PowerPC® or Intel® Mac

WINDOWS

Software

- Microsoft® Windows® XP with Service Pack 2 minimum
- QuarkXPress 7.31 minimum

Installing: Mac OS

To install XPress Math on Mac OS:

- 1 Quit QuarkXPress.
- 2 Drag the contents of the "XTension" folder to the "XTensions" folder in the QuarkXPress application folder.
- 3 Relaunch QuarkXPress.

Installing: Windows

To install XPress Math on Windows:

- 1 Quit QuarkXPress.
- 2 Drag the contents of the "XTensions" folder to the "XTensions" folder in the QuarkXPress application folder.
- 3 Drag the contents of the "Symbols" folder to the "xnt" folder in the "Symbols" folder in the QuarkXPress application folder.
- 4 Relaunch QuarkXPress.

Porting PowerMath supersets: Mac OS

To port the PowerMath™ superset to the XPressMath XTensions software, do not copy the PowerMath supersets to the "XPressMath Supersets" folder. The "XPressMath Supersets" folder is created within the QuarkXPress "Preferences" folder:

- In the `[drive]:Users:[user]:Library:Preferences:Quark:QuarkXPress 7.0` folder.
- In the "Preferences" folder within the QuarkXPress application folder if you have created the "Preferences" folder explicitly within the application folder.

To port the PowerMath superset to the XPressMath XTensions software:

- 1 Delete the default superset created by the XPressMath XTensions software to ensure that the "XPressMath Supersets" folder is empty.

➔ To also port the default superset, skip the previous step.

- 2 Open the QuarkXPress document that contains equations created using PowerMath in QuarkXPress 6.5.
- 3 Save the project in 6.5 format.
- 4 Open the project in QuarkXPress 7.
- 5 Perform the ASCII export and ASCII import operations on the document. The supersets used in the QuarkXPress document are ported and automatically created in the "XPressMath Supersets" folder.

➔ The output equations that you create using XPressMath might differ slightly from those that you create using PowerMath. These differences occur because PowerMath uses ATM libraries for composing equations that Mac OS X does not support. XPressMath uses ATSUI libraries that Apple recommends.

To prevent these differences from occurring, make fine adjustments that are available with different composition procedures. Quark® technical staff recommends that you validate the ported superset before you use it in a production environment.

Porting PowerMath supersets: Windows

To port the PowerMath superset to the XPressMath XTensions software:

- 1 Port the PowerMath superset to the XPressMath XTensions software on Mac OS. For more information about porting the PowerMath superset to the XPressMath XTensions software on Mac OS, see the previous section.
- 2 Open the QuarkXPress Mac OS project on Windows.
- 3 Perform the ASCII export and ASCII import operations on the layout.

The supersets used in the layout are ported and automatically created in the "XPressMath Supersets" folder:

- In the `[drive]\Document and Settings\[user]\ Application Data\Quark\QuarkXPress 7.0` folder.
- In the "Preferences" folder within the QuarkXPress application folder if you have created the "Preferences" folder explicitly within the application folder.

New and enhanced feature information

This section lists new and improved features included in this version of the software.

Four additional pi character levels

XPressMath now allows four additional empty pi character levels, with 1024 definable characters per level, so you can define new tags. You can add new tags in the **Pi Character** dialog box.

Unicode support

All data fields now support Unicode® (except the **Superset** name field).

Glyphs palette

You can now use the **Glyphs** palette to build mathematical equations. You can access the **Glyphs** palette from the **Edit** menu after opening the **Equation Builder** dialog box.

JPEG export

You can now export equations in JPEG format.

➔ BMP and PICT export are no longer supported.

Superior/inferior kerning improvements

When you create a kerning pair in the **Superior/Inferior Horizontal Placement** dialog box (**File > Place Sup/Inf**), XPressMath now stores both the base character and the superior or inferior character.

Basefont import/export

The Basefont context import feature now supports split font functionality. You can use this feature to control the typeface used in a specific part of an equation. For example, to render alphabetical characters in italic and numerical characters in roman, you can use the Basefont tag `~cnormal~` as depicted here. (If you do not specify a tag, `~cnormal~` is applied by default.)

```
[&~BASEFONT~[%P%100]~cnormal~abcd20&]
```

```
[&~BASEFONT~~~cnormal~abcd20&]
```

On import, the equation would render as "abcd20".

This feature introduces the following new tags:

- `~cnormal~` renders numbers in a plain typeface of the context font and renders alphabetical characters in the italic typeface of the context font.
- `~cboldnormal~` renders numbers in the bold typeface of the context font and renders alphabetical characters in the bold, italic typeface of the context font.
- `~cinormal~` renders numbers in a italic typeface of the context font and renders alphabetical characters in the plain typeface of the context font.
- `~cboldinormal~` renders numbers in the bold, italic typeface of the context font and renders alphabetical characters in the bold typeface of the context font.
- `~croman~` renders text in a plain typeface of the context font.
- `~cital~` renders text in an italic typeface of the context font.
- `~cbold~` renders text in a bold typeface of the context font.
- `~cbital~` renders text in a bold, italic typeface of the contextfont.

If you do not specify a style, the default style (`~cnormal~`) is applied.

On import, `[&~BASEFONT~text123&]` would render as "text123".

When you apply a context style within an equation, XPressMath combines that context style with the running context style as shown in the table below. The red axis represents the running context style, the blue axis represents the applied context style, and the black cells represent the resulting context style.

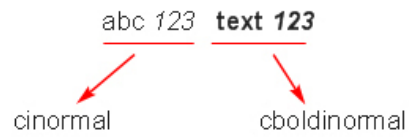
	cinormal	cboldinormal	cnormal	cboldnormal	croman	cbold	cital	cbital
cinormal	cinormal	cbold	cital	cbital	-	-	-	-
cboldinormal	cbold	cboldinormal	cbital	cital	-	-	-	-
cnormal	cital	cbital	cnormal	cbold	-	-	-	-
cboldnormal	cbital	cital	cbold	cboldnormal	-	-	-	-
croman	-	-	-	-	-	cbold	cital	cbital
cbold	-	-	-	-	cbold	-	cbital	cital
cital	-	-	-	-	cital	cbital	-	cbold
cbital	-	-	-	-	cbital	cital	cbold	-

Note that the `~cnormal~`, `~cinormal~`, `~cboldnormal~`, `~cboldinormal~`, and `~croman~` context styles override the running context style.

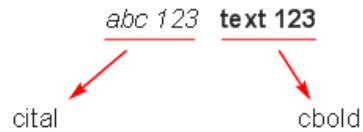
Import example: If the running context style is `~cinormal~` and the applied context style is `~cbold~`, then the resulting context style is `~cboldinormal~`. Additional import examples are provided below:

NEW AND ENHANCED FEATURE INFORMATION

[&~BASEFONT~*cinormal*~abc 123 ~cbold~text 123&]



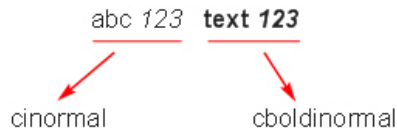
[&~BASEFONT~*cital*~abc 123 ~cbital~text 123&]



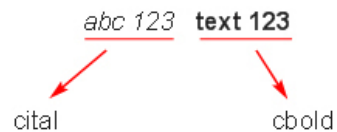
[&~BASEFONT~cbold~abc 123 ~cbital~text 123&]



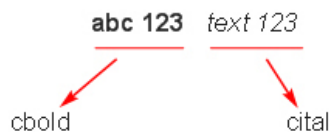
Export example: If the running context style is *cinormal* and the applied context style is *cboldinormal*, then the resulting context style is *cbold*. Additional export examples are provided below:



[&~BASEFONT~*cinormal*~abc 123 ~cbold~text 123&]



[&~BASEFONT~*cital*~abc 123 ~cbital~text 123&]



[&~BASEFONT~cbold~abc 123 ~cbital~text 123&]

Contacting Quark

If you have questions about installing, configuring, or using this software, please contact Quark Inc.

IN THE AMERICAS

For technical support, please call 800.676.4575 between 12:00 a.m. Monday and 11:59 p.m. Friday (Mountain Time), or send an e-mail message to techsupp@quark.com.

For product information, please visit the Quark Web site at www.quark.com, or send an e-mail message to cservice@quark.com.

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In Europe, technical support is available by phone between 8.30 and 17.30 Central European Time, Monday to Friday. Use one of the following local toll free numbers:

- **UK:** 0800 032 5714
- **Ireland:** 1 800 882 175
- **Denmark:** 80606008
- **Norway:** 800 19517
- **Sweden:** 020 791883
- **The Netherlands:** 0800 0200934
- **Luxembourg:** 800 26031
- **Germany:** 08000 49 1234
- **Austria:** 0800 202 182
- **Switzerland:** 0800 178782
- **Belgium:** 0800 80890
- **France:** 0800 800 798
- **Italy:** 800 917740

CONTACTING QUARK

- **Spain:** 900 811 272

In Austria, Belgium, Denmark, France, Germany, Ireland, Luxembourg, The Netherlands, and the United Kingdom, you can also call 00800 1787 8275 or +41 32 720 14 14.

For e-mail support in Europe, use one of the following addresses:

- **English:** eurotechsupp@quark.com
- **German:** techsupportde@quark.com
- **French:** techsupportfr@quark.com
- **Italian:** techsupportit@quark.com
- **Spanish:** techsupportes@quark.com

In Australia, please call 1 800.670.973 between 10:00 a.m. and 7:00 p.m. Sydney Time (AEST), Monday through Friday, or send an e-mail message to austechsupp@quark.com.

In Japan, please call (03) 3476–9440 Monday through Friday between 9:00 am and 5:00 pm, send a fax to (03) 3476–9441, or visit the Japanese Quark Web site at japan.quark.com.

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