

# The font “topsetMathExpert41”

This special mathematical font „topsetMathExpert41“ has been designed to depict

- scalable lying braces, known as „underbrace“ and „overbrace“ in mathematical composition;
- in combination with InMath, arrows over any number of characters, without distorting the arrowheads at all.

For this, the font has included quite a few parts to put the braces and the arrows together. These parts were made in a way that they perfectly fit together.

The font is in OpenType format, can thus be used on MAC and PC, and follows the Unicode standard.

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## 1. Arrowheads

Assuming that you have InCopy or InDesign with InMath and the font topsetMathExpert41 installed, you can depict the following arrows. As an example, all possible arrows are shown here over the characters AB. Of course, there can be just one character ore many more characters as well. To create the following expressions, the InMath template „ARROW“ is used.

$\overrightarrow{AB}$   $\overleftarrow{AB}$   $\overleftrightarrow{AB}$   $\overrightarrow{AB}$   $\overleftarrow{AB}$   $\overleftrightarrow{AB}$   $\overrightarrow{AB}$   $\overleftarrow{AB}$   $\overleftrightarrow{AB}$   $\overrightarrow{AB}$   $\overleftarrow{AB}$   $\overleftrightarrow{AB}$   $\overleftarrow{AB}$   $\overrightarrow{AB}$   $\overleftarrow{AB}$   $\overrightarrow{AB}$

$\overrightarrow{AB}$   $\overleftarrow{AB}$   $\overleftrightarrow{AB}$   $\overrightarrow{AB}$   $\overleftarrow{AB}$   $\overleftrightarrow{AB}$   $\overrightarrow{AB}$   $\overleftarrow{AB}$   $\overleftrightarrow{AB}$   $\overrightarrow{AB}$   $\overleftarrow{AB}$   $\overleftrightarrow{AB}$   $\overrightarrow{AB}$   $\overleftarrow{AB}$   $\overleftrightarrow{AB}$

$\overleftarrow{AB}$   $\overrightarrow{AB}$   $\overleftarrow{AB}$   $\overrightarrow{AB}$  Please note especially these very particular physics vector arrows.

Arrows over italic characters (example):  $\overrightarrow{AB}$

Please have a close look at the InMath style options to understand how the arrow is shifted to the right.

The easiest way to use one of these samples in your InCopy or InDesign document is:

- Place the cursor somewhere into the sample - the cursor blinks, and the appropriate InMath style is being highlighted in the InMath styles palette.
- Right-click or Control-click and choose „Extend selection to InMath expression“ from the contextual menu.
- Choose Edit>Copy or Ctrl/Cmd-C.
- Switch to your document and paste the expression anywhere using Edit>Paste or Ctrl/Cmd-V.

You can of course edit all settings using the InMath style options window as usual.

## 2. Underbrace and Overbrace

These braces are put together of five pieces, each of which is a character:

‘ ‘ ‘ ‘ ‘ is, without the space characters between:  $\underbrace{\hspace{10em}}$  and for example  $\underbrace{\hspace{10em}}$

‘ ^ ^ ^ ‘ is, without the space characters between:  $\overbrace{\hspace{10em}}$  and for example  $\overbrace{\hspace{10em}}$

The font „topsetMathExpert41“ is exclusively distributed and supported by i.t.i.p. GmbH: <http://itip-gmbh.eu>.