

# *Writer Region*

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Hello! This is a *Writer Region*

If "**Arial**" and "**Segoe Script**" fonts are available on your system,  
you should see the region above like in this picture:



Hello! This is a *Writer Region*

otherwise, a default font-family should be used to render the region.

use **CTRL+SHIFT+W** to add a region on the canvas (or "**Insert**" > "**Writer region**" from the main menu)

## **FEATURES**

- Allows the use of several font styles, sizes and decorations, subscripts and superscripts;
- Allows the mix of colors;
- Alignments handled paragraph by paragraph;
- Lists;
- Copy formatted text through Writer regions;
- Copy formatted text to third-party word processors (Google documents, LibreOffice, MS Office, etc...);
- Copy editable math to MS Word (available for single math objects);
- Multilanguage;
- Diacritical marks allowed;
- Line-spacing of the region customizable;
- Page alignment of the region from context menu;
- Vertical alignment within worksheet's math regions available through context menu;
- SMath Viewer compatible;
- Customizable settings (portable version has portable settings);
- Spell checker (Windows OS only; see below how to enable it);
- Region statistics (number of words, paragraphs, ...).

To access these features you have several ways:

- keyboard shortcuts;
  - context menu;
  - a floating toolbar dialog.
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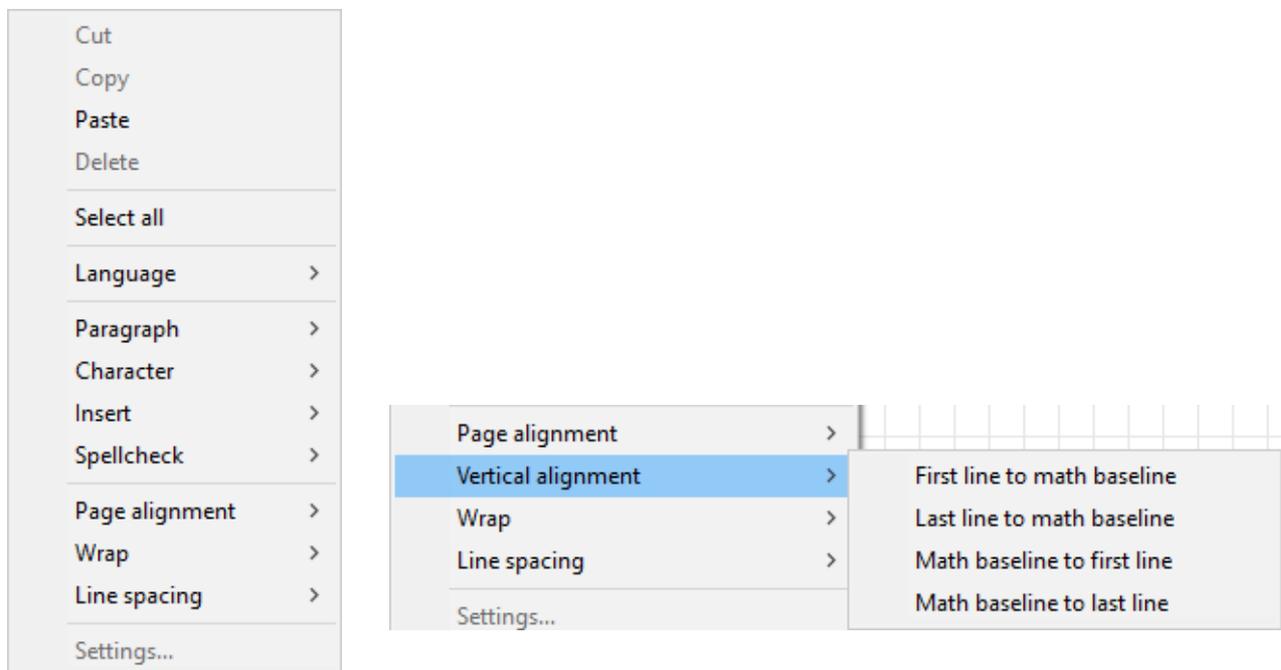
## Keyboard shortcuts

A list of the meaningful keyboard shortcuts is available using the F1 key or from a menu item in the toolbar.

	Description	Command
▶	Move caret to previous character	Left
	Move caret to next character	Right
	Move caret to previous word	Ctrl+Left
	Move caret to next word	Ctrl+Right
	Move caret to line begin	Home
	Move caret to line end	End
	Move caret to previous paragraph	Ctrl+Down
	Move caret to next paragraph	Ctrl+Up
	Move caret to start	Ctrl+Home
	Move caret to end	Ctrl+End
	Select up to previous character	Shift+Left
	Select up to next character	Shift+Right

## Context menu items

The context menu appears on mouse right-click; the number of items and their status depends on the current status (what is selected, the clipboard content, etc...); if the region is selected and not focused you can even gain access to relative alignments with other selected math regions.



## Toolbar / Toolstrips

use **CTRL+SHIFT+S** to open the settings toolbar (or use "Settings..." item in the context menu)



The toolbar can be kept floating on the canvas, through different documents; it become active when a region is focused.

Hold the mouse over each button to see his description and hotkeys (if any)

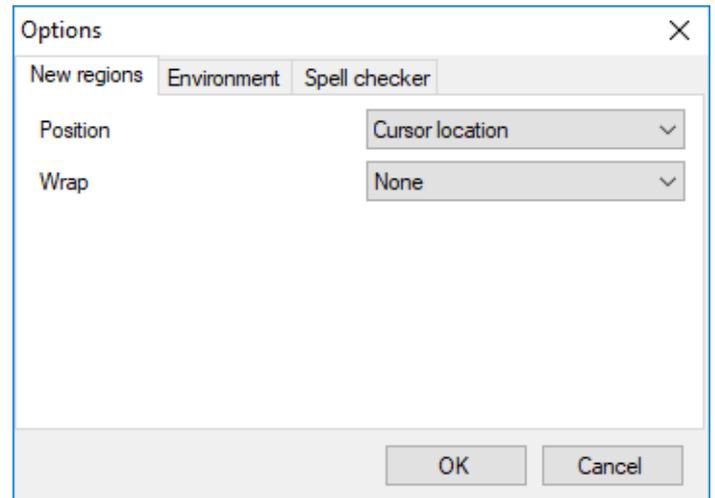
	<b>HOTKEYS</b>	<b>DESCRIPTION</b>
	CTRL+B	Apply bold style to the selection/word or following characters
	CTRL+I	Apply italic style to the selection/word or following characters
	CTRL+U	Apply underline style to the selection/word or following characters
	CTRL+R	Apply strikethrough style to the selection/word or following characters
	CTRL+SHIFT+B	Apply subscript style to the selection/word or following characters
	CTRL+SHIFT+T	Apply superscript style to the selection/word or following characters
	<i>none</i>	Preview/choose a font color for the selection/word
	<i>none</i>	Preview/choose an highlight color for the selection/word
	CTRL+SHIFT+L	Left alignment of the line/selected lines
	CTRL+SHIFT+C	Center alignment of the line/selected lines
	CTRL+SHIFT+R	Right alignment of the line/selected lines
	CTRL+SHIFT+J	Justify alignment of the line/selected lines
	ALT+SHIFT+LEFT	Decrease Indent of the paragraph
	ALT+SHIFT+RIGHT	Increase indent of the paragraph
	CTRL+L	Toggle unordered list
	CTRL+K	Toggle ordered list
	CTRL+SHIFT+U	Unset custom styles from selection/word or following characters
	CTRL+SHIFT+F	Copy current format to a further selection
	CTRL+SHIFT+H	Add/Change/Remove Hyperlinks
	CTRL+SHIFT+M	Add/Change Math objects
	CTRL+SHIFT+X	Add/Change Field objects
	<i>none</i>	Insert a symbol
	SHIFT+F7	Toggle spelling check on type
	F7	Spelling check of the region
	<i>none</i>	Thesaurus
	<i>none</i>	Change the case of the selection/word
	<i>none</i>	More (other tools and options)

## GLOBAL OPTIONS

Global options are available from the toolbar "More..." item > "Options..."

### New regions

It is possible to choose where to place new regions on the canvas and the default wrap



### Environment

Here you have some general options about Writer Regions

**Popup toolbar:** many features are available through a popup toolbar; you can define how to show this form:

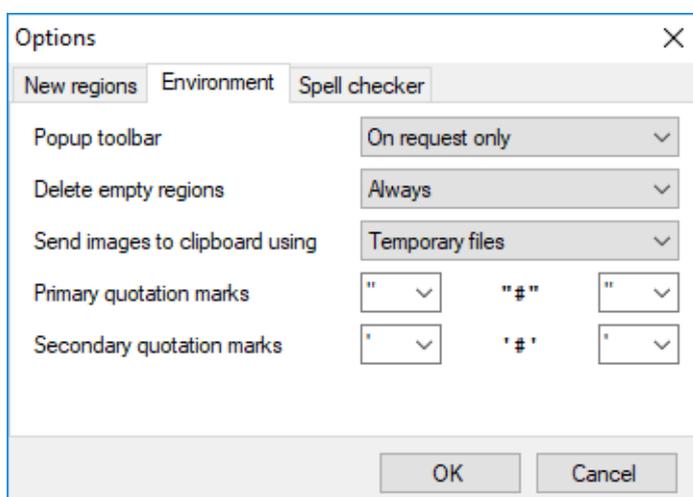
- On focus: when you focus a region (new or existing) the toolbar will appear (if not already opened);
- On new regions: the toolbar will be shown when you add a new region on the canvas;
- On request: the toolbar will be shown only on hotkeys press or by context menu (these features are always available, even if you choose other settings).

**Delete empty region:** this feature set when an empty region must be removed from the canvas.

- Always: if you delete the content of the region, it will be automatically removed;
- On lost focus: the region is deleted from the canvas only when you leave it (left-click on the canvas or actions on other regions on the canvas)

**Share clipboard's images using:** single math objects can be exported in MS Word as editable math (some MathML attributes such as colors and alignments are ignored; it is possible to left-align these items { *if*, *line*, *while*, *for*, *sys*, *cases* ... } from inside MS Word - Right click > Column Alignment > Left )

When mixed with text, math objects are converted to images.



To share these images with other text editors, there are two ways: via embedded code, or via temporary files.

Most of the word processors are able to manage both, however online services can't handle temporary files (because security stuff) and MS Word is not able to process images shared as embedded data.

Here you can choose the way you want, depending on what is your favorite target.

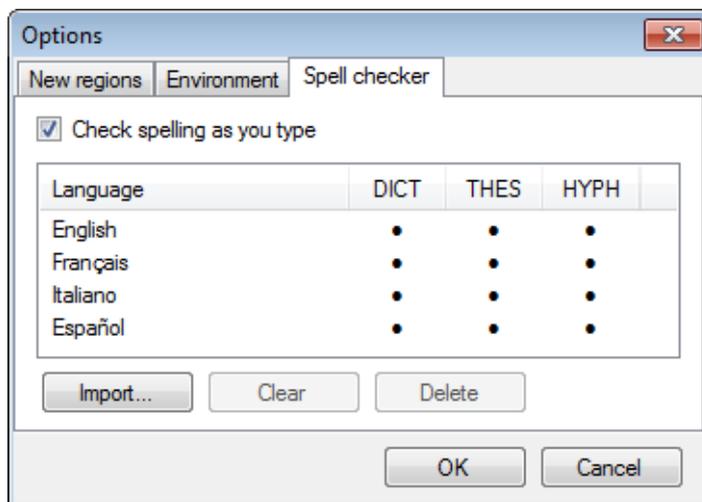
**Quotation helpers:** to wrap text inside quotes, it is possible to use CTRL+SHIFT+Q or CTRL+SHIFT+A; here you can set your favorites.

## Spell checker

*feature available only on Microsoft Windows OS*

In this tab you can see the status of the spelling checker. A flag makes possible to enable/disable this feature by default when the program starts.

A window shows all the languages available and their features (DICTIONary, THESAurus, HYPHENator)



### Import...

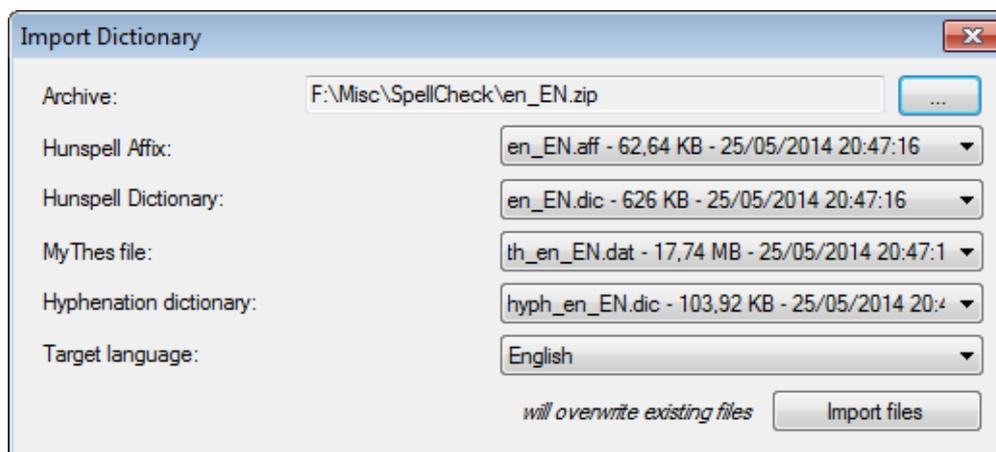
Dictionaries are **not** provided within the plugin. This utility helps you to import them.

Supported dictionaries are available in the following packages:

- OpenOffice dictionaries (\*.oxt, versions [3.x](#) or [1.x and 2.x](#))
- [LibreOffice dictionaries](#) (\*.oxt)
- [Firefox dictionaries](#) (\*.xpi)
- [Thunderbird dictionaries](#) (\*.xpi)
- Custom packages (\*.zip, you can find files to create them f.e. [here](#))<sup>(1)</sup>

To import a dictionary:

1. Download a dictionary in a local path
2. From the import utility, click on the "..." button to locate that archive



3. choose the files from the drop-down menus (an archive might contains more than one language, f.e. *en\_EN*, *en\_US*, *en\_AU* etc... choose the one you want);
4. choose the target language (one of the localization languages available in your version of SMath Studio);
5. click on "Import files"<sup>(2)</sup>.

**NOTE (1):** Hunspell files (Affix and Dictionary) are strictly required;

**NOTE (2):** you can overwrite existing languages without losing your custom words.

### Clear

Using the spell checker it is possible to add custom words to the existing dictionaries. This button will delete every custom word from the selected dictionary.

### Delete

This option delete completely the selected dictionary.

## **OBJECTS**

### **Math**

These items are available from toolbar or CTRL+SHIFT+M shortcut; edit is possible via toolbar, double-click, context menu or hotkeys.

Expressions must be inserted using default settings (copy in the clipboard from canvas, then paste it in the dialog)

### **Fields**

These items are available from toolbar or CTRL+SHIFT+X shortcut; edit is possible via toolbar, double-click, context menu or hotkeys.

You can change "Worksheet Info" attributes from the "File" > "Properties..." menu; the update rule is: region language > SMATH interface language > english > no update available (light red highlight).

Documentation about date/time format specifiers may be found [here](#); unflag the option "update automatically" if you want to change the value only upon your request.

## **MISC**

Font family:

Any True Type Font with regular style should be loaded;

Font size:

Integers and decimal values allowed;

Hyperlinks:

When mouse hover over an hyperlink, the color and background color should change; if there are multiple hyperlinks with the same target, all the hyperlinks are highlighted;

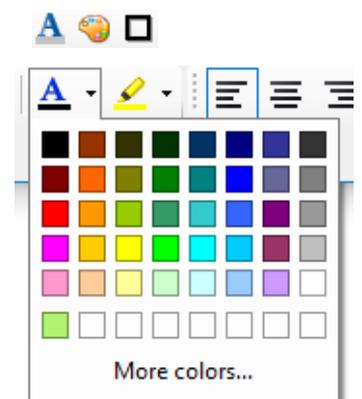
Colors:

The main font color and the main background color could be driven by the SMATH toolbar.

In the settings' toolbar, hold the mouse over a color in the color picker to have a preview.

Under the standard palette there are 8 spaces available for your favorite colors:

- right-click over the button to choose or change the custom color;
- hold down the SHIFT key and right-click to clear the field;



## **BEST PRACTICES**

I recommend to use this region like a paragraph of a document or a block of text in a ppt presentation. This helps to better handle the worksheet layout if you choose to change the page setup or if the region handles multiple languages.

## **KNOWN ISSUES**

- Sometimes character's horizontal spacing is not uniform  
this is handled by the GDI+ core; anyway it's possible to find a better look using a decimal font-size; usually trying in a range of  $\pm 0.25$  pts you may experience the same font height but a different spacing.
- Sometimes diacritical marks are not shown correctly  
this is handled by the GDI+ core; the only way to have a better look is to choose another font-family.
- Sometimes the mix of font sizes/families causes relative vertical misalignments  
if a mathematical formula that fit a correction through different font-size and families will be proposed/found, then will be applied.
- Sometimes print to PDF isn't recognized as text (typically bold characters)  
this appears as a problem in the PDF printer with some font-families; try with a different font-family.

## **BUGS**

- report any bug in the [dedicated topic](#) in the official SMath Studio Forum;

## **MISSING BUT PLANNED FEATURES**

- Toolstrips from "Settings' Form" to SMath toolbar;
- Styles;
- Find & Replace (already available through [TextRegionUtilities](#));

## **EMBEDDED PLUGINS**

Spell checker feature needs some third-party libraries that are provided within this plugin:

- **Hunspell**

website: <http://hunspell.sourceforge.net/>

repository: <https://github.com/hunspell>

license: tri-license

- GPL <http://www.gnu.org/copyleft/gpl.html>
- LGPL <http://www.gnu.org/licenses/lgpl.html>
- MPL <http://www.mozilla.org/MPL/MPL-1.1.html>

copyright: Kevin Hendricks (MySpell) and Németh László (Hunspell) and all contributing authors.

- **NHunspell**

website: <http://www.crawler-lib.net/nhunspell>

repository: <https://sourceforge.net/p/nhunspell/code/ci/default/tree/>

license: tri-license

- GP <http://www.gnu.org/copyleft/gpl.html>
- LGPL <http://www.gnu.org/licenses/lgpl.html>
- MPL <http://www.mozilla.org/MPL/MPL-1.1.html>

copyright: Thomas Maierhofer, Lazlo Nemeth and all contributing authors.

- **SharpZipLib**

website: <https://icsharpcode.github.io/SharpZipLib/>

repository: <https://github.com/icsharpcode/SharpZipLib>

license: [MIT License](#)

copyright: SharpZipLib Contributors.