

## 5.5.1 Modeling - Text - Introduction

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### Text

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### Introduction

#### Reference

Mode: *Edit mode (Text)*  
Panel: *Curve and Surface, Font and Char (Editing context)*

Menu: Add ▸ Text



## Text Examples.

*Text* objects are exactly what they sound like: they contain some text. They share the same object type as curves and surfaces, as modern fonts (OpenType, TrueType, etc.) are vectorial, made of curves (generally Béziers).

Blender uses a “Font System” to manage mapping “letter codes → objects representing them in 3D views”. This implies that not only does the font system have its own *built-in* font, but it can use external fonts too, including *PostScript Type 1*, *OpenType* and *TrueType* fonts. And last but not least, it can use any objects existing in the current .blend file as letters...

Texts in Blender allow you to create/render 2D or 3D text, shaded as you want, with various advanced layout options (like justifying and frames), as we will see below. By default, letters are just flat filled surfaces, exactly like any closed 2D curve. But you can of course extrude them... And texts can follow other curves.

Of course, once you are happy with the shape of your text, you can convert it (with **Alt - C**, in *Object* mode), either to a curve, or directly to a mesh, allowing you to use all the powerful features of these types of objects on it...

(*Text Examples*) shows some examples of various fonts in action, including the “blue” font that has been applied to a curve path.

## Note

A maximum of 50000 characters is allowed per text object; however, be forewarned that the more characters a single text object has, the slower the object will respond interactively.

As you can see when you switch between *Object* and *Edit* modes, the *Font* panel remains the same. This means that its settings can be applied equally in both modes ... and this implies that you cannot apply them to just a part of the mesh. So font, size, and so on, are common to all letters in a *Text* object. There is just one exception: the *Bold* / *Italic* buttons control properties specific to each letter (this is a way to use up to four

different fonts in a text).

For optimum resource usage, only characters that are being used consume memory (rather than the entire character set).

## Editing Text

### Reference

Mode: *Edit mode*

Hotkey: see below



Text in Edit mode.

Editing text is quite different from other object types in Blender, and happens mainly in two areas. First, the 3D view, of course, where you type your text, and have a few shortcuts, e.g. for applying styles (see *Character*) - note however that most Blender hotkeys you know in *Edit mode* do not exist for texts! The second place is the *Button* window (*Editing context*), especially the *Font* panel.

The menu of the 3D view header has nearly no use, and there is no *Specials* menu... You have no transform nor mirror tools, and so on. However, you can apply to texts the same modifiers as for curves.

Editing *Text* is similar to using a standard text editor but is not as full-featured and has some differences:

### Exit *Edit mode*

**Tab** doesn't insert a tab character in the text, but rather enters and exits *Edit mode*, as with other object types.

### Copy

To copy text to the buffer, use **Ctrl-C** or the *Copy* button in the tool shelf.

### Cut and Copy

To cut and copy text to the buffer, use **Ctrl-X** or the *Cut* button in the tool shelf.

### Paste

To paste text from the buffer, use **Ctrl-V** or the *Paste* button in the tool shelf.

### Delete all text

To completely erase or delete all text, use **Ctrl-Backspace**.

### Home/End

Home and End move the cursor to the beginning and end of a line respectively.

**Next/Previous word**

To move the cursor on a word’s boundary, use Ctrl-Left or Ctrl-Right.

The text buffer does not communicate with the desktop. It only works within Blender. To insert text from outside Blender, see Inserting Text below.

**Inserting Text**

You can insert text in three different ways: from the internal text buffer (Editing Text), or from a text file.

To load text from a text file, use the Text ▶ Paste File tool. This will bring up a *File Browser* window for navigating to a valid UTF-8 file. As usual, be careful that the file doesn’t have too many characters, as interactive response will slow down.

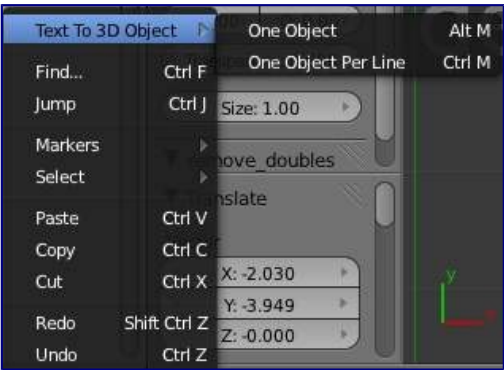
**Special Characters**

Reference
Mode: <i>Edit mode</i>
Menu: Text ▶ Special Characters

If you need special characters (such as accented chars, which aren’t on your keyboard) you can produce many of them using a combination of two other characters. To do so, type the main char, press Alt-Backspace, and then press the desired “modifier” to produce the special character. Some examples are given below:

A, Alt - Backspace, ~	ã	A, Alt - Backspace, '	á	A, Alt - Backspace, `	à
A, Alt - Backspace, 0	å	E, Alt - Backspace, "	ë	O, Alt - Backspace, /	ø

**Convert Text to Text Object**

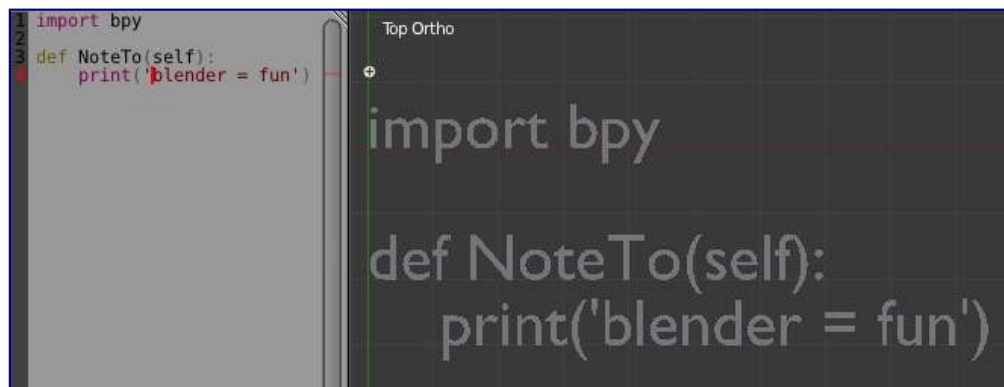


Using an existing text-block, you can convert it to an object from the text editor’s header, select Edit ▶ Text to 3D Object, *One Object* or *One Object per Line* depending on your needs.

It is also possible to paste from the clipboard or a file from the *Edit* menu, while editing 3D Text.

## 3D Mesh

It is possible to convert a Text Object to a 3D Mesh object. This can be useful so that you may edit the vertices in *Edit Mode*, but you will lose the ability to edit the text itself. To do this, go to *Object Mode* and select your Text Object. Press **Alt - C** and select *Mesh From Curve/Meta/Surf/Text*. Now you can return to *Edit Mode* and manually edit the vertices. They are usually a bit messy, so it may be useful to use a *Limited Dissolve* deletion or *Remesh Object Modifier* at a low threshold to clean up your mesh.



left normal text, right the made text object.

## Text Selection



Text in Edit mode.

In *Edit mode*, your text has a white cursor, and as in any text editor, it determines where new chars will be inserted! You move this cursor with the arrow keys or **PageUp** / **PageDown** and **Home** / **End** keys.

Hold **Shift** while using the arrow keys to select a part of the text. You can use it to specify different materials, the normal/bold/italic state, and not much more...












## Formatting Text

### Fonts

Reference
Mode: <i>Edit mode</i>
Panel: <i>Font (Editing context)</i>

The *Font* panel has several options for changing the look of characters.

## Loading and Changing Fonts

	18thCtrInit.ttf	29 KB
	18thCtrKurStart.ttf	89 KB
	18thCtrKurTxt.ttf	84 KB
	1610_Cancellaresca_lim.TTF	116 KB
	BIRTH OF A HERO.ttf	116 KB
	CRBLATRIAL.otf	45 KB
	CRBLATRIAL.ttf	54 KB
	CRIALTRIAL.otf	59 KB
	CRIALTRIAL.ttf	76 KB
	kabog.ttf	23 KB
	kingthingspetrock.ttf	14 KB

Loading a Type 1 font file.

Blender comes with a *built-in* font by default and is displayed in each of the four font style choosers. The *built-in* font is always present and shows in this list as **Bfont**. The first icon contains a drop-down list displaying currently loaded fonts. Select one for each font style.

To load a different *Font*, click one of the *Load* buttons in the *Font* panel and navigate to a *valid* font. The *File Browser* window will give all valid fonts a capital F icon, as seen in *Loading a Type 1 font file*.

### Note

#### Unix note

Fonts are typically located under `/usr/lib/fonts`, or some variant like `/usr/lib/X11/fonts`, but not always. They may be in other locations as well, such as `/usr/share/local` or `/usr/local/share`, and possibly related sub-trees.

If you select a font that Blender can't understand, you will get the error **Not a valid font**.

Remember the same font will be applied to all chars with same style in a text, but that a separate font is required for each style. For example, you will need to load an *Italics* font in order to make characters or words italic. Once the font is loaded you can apply that font “Style” to the selected characters or the whole object. In all, you would need to load a minimum of four different types of fonts to represent each style (**Normal**, **Italics**, **Bold**, **Bold-Italics**).

It is important to understand that Blender does not care what font you load for “normal”, “bold”, etc., styles. This is how you can have up to four different fonts in use in the same text - but you have to choose between different styles of a same font, or different fonts. Blender has a number of typographic controls for changing the style and layout of text, found in the *Font* panel.

## Size and Shear

### Size

Controls the size of the whole text (no way to control each char size independently). Note however that chars with different fonts (different styles, see below) might have different visible sizes.



shear: 'blender' has a shear value of 1, '2.59' a shear value of 0

### Shear

Controls the inclination of the whole text. Even if this seems similar to italics style, *this is not the same thing* !

## Objects as Fonts

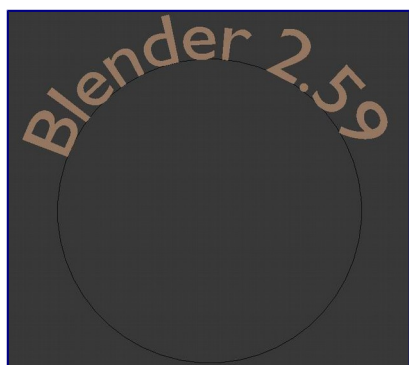
You can also “create” your own “font” inside Blender! This is quite a complex process, so let’s detail it:

- First, you must create your chars. Each char is an object *of any type* (mesh, curve, meta...). They all must have a name following the schema: **common prefix** followed by the **char name** (e.g. **ft.a**, **ft.b**, etc.).
- Then, for the *Text* object, you must enable the *Dupli Verts* button (*Object* context - *Anim Settings* panel).
- Back in *Editing* context, in the *Font* panel, fill the *Ob Family* field with the *common prefix* of your “font” objects.

Now, each time a char in your text matches the *suffix part* of a “font” object’s name, this object is duplicated on this char. *The original chars remain visible*. The objects are duplicated so that their center is positioned at the *lower right corner* of the corresponding chars.

### Text on Curve

With the *curve modifier* you can let text follow a curve.



Text on curve.

In (*Text on curve*) you can see a text deformed by a curve (a 2D Bézier circle).

To apply the curve modifier, the text object first has to be converted to a mesh, using **Alt + C** and click mesh.

#### Note

There is also a Text on Curve feature, but the curve modifier offers more options.

## Underline

### Underline

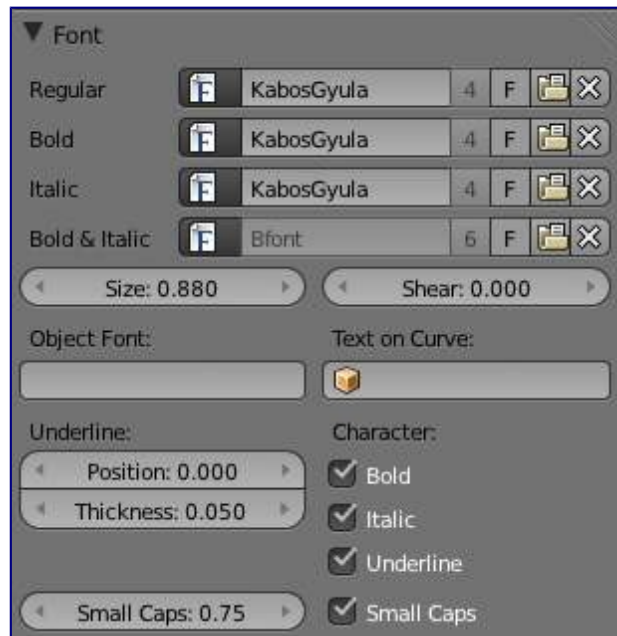
Toggled with the *Underline* button before typing. Text can also be set to Underlined by selecting it then using the *Underline* button in the Tool Shelf.

#### Position

This allows you to shift vertically the position of the underline.

#### Thickness

This controls the thickness of the underline.



check a character option to, for example, type bold text

## Character



Bold text.

### Bold

Toggled with the *Bold* button before typing. Text can also be set to Bold by selecting it then using the *Bold* button in the Tool Shelf.



## Italics

Toggled with the *Italic* button before typing. Text can also be set to Italic by selecting it then using the *Italic* button in the Tool Shelf.

## Underline

Enables underlining, as controlled by the Underline settings above.

## Small Caps

type small capital text.

Blender's *Bold* and *Italic* buttons don't work the same way as other applications, as they also serve as placeholders for you to load up other fonts manually, which get applied when you define the corresponding style; see Fonts.

To apply the Bold/Italics/Underline attribute to a set of characters, you either turn on *Bold* / *Italics* / *Underline* prior to typing characters, or highlight (select) first and then toggle Bold/Italics/Underline.

## Setting Case

You can change the text case by selecting it then clicking the *To Upper* or *To Lower* in the tool shelf.

Enable the *Small Caps* option to type characters as small caps.

The size of the *Small Caps* can be changed with the *Small Caps Scale* setting. Note that the *Small Caps Scale* is applied the same to all *Small Caps* formatted characters.

## Paragraph

The *Paragraph* Panel has settings for the alignment and spacing of text.



the paragraph tab

## Align

### Left

Aligns text to left of frames when using them, else uses the center point of the *Text* object as the starting point of the text (which grows to the right).

### Center

Centers text in the frames when using them, else uses the center point of the *Text* object as the mid-point of the text (which grows equally to the left and right).

### Right

Aligns text to right of frames when using them, else uses the center point of the *Text* object as the ending point of the text (which grows to the left).

### Justify

Only flushes a line when it is **terminated** by a wordwrap (**not** by **Return**), it uses *whitespace* instead of *character spacing* (kerning) to fill lines.

## Flush

**Always** flushes the line, even when it's still being entered; it uses character spacing (kerning) to fill lines.

Both *Justify* and *Flush* only work within frames.

## Spacing

### Character

A factor by which space between each character is scaled in width

### Word

A factor by which whitespace between words is scaled in width. You can also control it by pressing **Alt - Left** or **Alt - Right** to decrease/increase spacing by steps of 0.1.

### Line

A factor by which the vertical space between lines is scaled.

## Offset

### X offset and Y offset

Well, these settings control the X and Y offset of the text, regarding its “normal” positioning. Note that with frames (see *Text Boxes*), it applies to all frames' content...

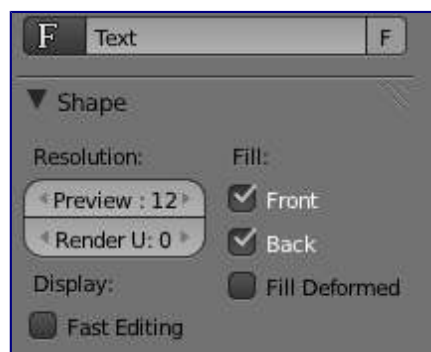
## Shape

Reference
Mode: <i>Object</i> or <i>Edit</i> modes
Panel: <i>Curve and Surface</i> ( <i>Editing</i> context)

As you can see in the *Curve and Surface* panel, texts have most of the same options as curves.

## Resolution

Preview, Render resolution. See curve resolution.



the shape settings

### Fast Editing

disables curve filling while in edit mode.

## Fill

The fill options control how the text curves are filled in when text is *Extruded* or *Beveled* in the *Geometry* Panel.

### Front

Fills in the front side of the surface.

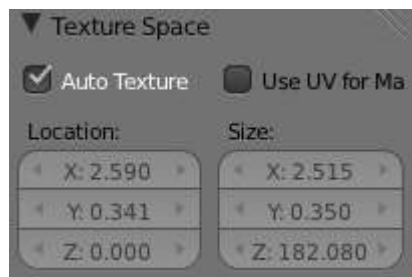
### Back

Fills in the back side of the surface.

### Fill Deformed

Fills the curves after applying shape keys and modifiers.

## Textures



Texture Settings

### Use UV for Mapping

Use UV values as generated texture coordinates.

### Auto Texture Space

Adjusts the active object's texture space automatically when transforming object.

## Geometry

Text objects have all the *curves extrusion features*.