

# 5. Definition of positions in the PDF

There is an additional icon (a PDF symbol) in the overview of the created forms. The positions of the entries in the template PDF are defined in the following table. Any number of items can be created.

[↩ Go back](#) [➕ New position](#) [📄 Download Test PDF](#) [✎ Edit multiple](#) [🔍 Filter](#)

It is possible to generate a completed **Test PDF** directly in the backend. This allows you to quickly check whether all items are filled in correctly in the form. All published items are output, and the field name is displayed for form fields.

Since no input data is available, the conditions are not checked, meaning that all fields and all pages are transferred to the test PDF.

▼ Type of position

**Type of position**

Text position ▼

Select the type of position

There are different types of positions:







- **Text position** - Output of form content, texts and insert tags
- **Picture position** - Output of image data
- **Barcode** - Output of a barcode from form content, text, InsertTags

## Creating the individual items:

### a) Text positions


▼ Fill PDF form

**Inputs and texts**

Field name or "text"	Condition		
lastname	-	used	 
","	firstname	used	 
firstname	-	used	 

Enter the field name, or a text in Input values and/or text to be inserted her into PDF      The text is output only when the field is filled, in      Inversion: used = selected/checked; empty =

**Overwrite text color**



Leave the field blank if you do not want to overwrite the default text color

**No automatic spaces**  
Suppresses the automatic insertion of spaces between fields.

**Remarks and notes**

These notes are not displayed in the frontend

The information to be entered is set in the first section. The following options are available:

- a field name from the form
- a fixed text in quotation marks
- InsertTags must also be enclosed in quotation marks, as they are to be processed as text

In the example, these are the form fields lastname and firstname and a fixed text with a comma. These individual definition lines are strung together with spaces (no space before a comma). If the **automatic space** character is annoying in rare situations, you can switch it off.

A condition can be programmed for the output in the 2nd column. If the condition is empty, the position is always output. In the example, the comma depends on whether the **firstname** field in the form has been filled in (used). The comma is therefore only output if the firstname has been filled in.

The condition can also be inverted:

used = field filled in / checkbox or radio button selected

empty = field is empty / checkbox or radio button not selected

The fixed texts can also contain insert tags:

▼ Fill PDF form

**Inputs and texts**

Field name or "text"	Condition	
city	city	used
","	city	used
"{{date::d.m.Y}}"	-	used

Enter the field name, or a text in Input values and/or text to be inserted her into PDF      The text is output only when the field is filled, in      Inversion: used = selected/checked; empty =

In this example, "Berlin, 2018-02-04" or only "2018-02-04" entered in the PDF, depending on whether city is specified or not.

To cross check boxes, we use an "X" with the checkbox value in the condition:

**Inputs and texts**

Field name or "text"	Condition	
"X"	terms_conditions_accepted~1	used

Enter the field name, or a text in Input values and/or text to be inserted her into PDF      The text is output only when the field is filled, in selections the      Inversion: used = selected/checked; empty =

In the **Remarks and notes** line, you can save notes on the position, for example for checkboxes or radio buttons where only an "X" is displayed, the option can be described here for the backend view.

If you want to display all selected values as text in a comma-separated list, simply enter the field name.

In the lower part of the backend form it comes to the position in the PDF where the selected information is entered and the font attributes.

▼ Positions and attributes

**Page in PDF\***

Page on which the item is to be inserted

**Position in X and Y\***

Position in mm from the upper left corner. If the value begins with + or -,

**Orientation**

Orientation based on the position

**Text attributes**

*Select all*

**Bold**

*Italic*

Attributes bold or italic for the inserted text

**Border right**

Optional margin setting for wordwrap of long texts

**Text size**

Font size of text in pt

**Text transformation**

Here you can choose a text transformation mode.

The **position** consists of the PDF page (refers to the page in the template), the horizontal distance from the left margin and the vertical distance from the top margin. Optionally, a right margin can also be entered. This is often useful for form fields of the textarea type, where the line text should wrap. Depending on the font used, there may be a constant shift due to over- and descenders in the font.

A good way to determine the positions is to measure the PDF page in programs such as Photoshop. The offset can be quickly determined in a position test and included in the other positions.

*Note: The positions always refer to the basic offset in the form properties*

If a position specification begins with + or -, then the position is placed **relative** to the previous position. For example, the Y position "+5" can be used to set the output to 5 mm below the last output position.

## b) Picture position

There are 4 options for integrating images into the PDF:

- Select an image from the file manager
- Take an image from the upload, i.e. from the form
- An image that is contained in the form data as a DataStream (e.g. from the signature extension [do-while/contao-signature-formfield-bundle](#))
- Include an image via the UUID of the file (e.g., 735e095f-a30e-11ee-9009d02fd8b3)
- Include an image using the file path (e.g., files/contademo/media/demo-images/contao-on-blue.jpg)

Positions and attributes

**Page in PDF\***  
  
 Page on which the item is to be inserted


**Condition**  
  
 The item is only output if the condition is fulfilled or the condition is empty.

**not used**  
 not used = unchecked/not selected/empty.

**Position in X and Y\***  
   
 Position in mm from the upper left corner. If the value begins with + or -,

**Dimensions\***  
   
 Size of the box width x height in mm. If one value is specified as 0, it will be

The page, position and size are specified for all image positions. The image is always cropped to the specified dimensions (MODE\_CROP = Exact format). It is also possible to specify a condition for inclusion, the image is then only included if the condition is met. For example, images can be integrated to match a selection field.

<p>Image selection</p> <p><b>Image source</b>  <input type="text" value="File"/>        Use an image from file or from a data stream.</p> <p><b>Picture*</b>    <input type="button" value="Change selection"/>        Select your picture</p>	<p>Image selection</p> <p><b>Image source</b>  <input type="text" value="Upload file"/>        Use an image from file or from a data stream.</p> <p><b>Image data*</b>  <input type="text" value="stdupload"/>        Define the form field that contains the image data or a UUID.</p>
<p>Image selection</p> <p><b>Image source</b>  <input type="text" value="Data stream"/>        Use an image from file or from a data stream.</p> <p><b>Image data*</b>  <input type="text" value="signature"/>        Define the form field that contains the image data or a UUID.</p>	<p>Image selection</p> <p><b>Image source</b>  <input type="text" value="UUID or file path"/>        Use an image from file or from a data stream.</p> <p><b>Image data*</b>  <input type="text" value="files/contaodemo/media/demo-images/contao-on-blue.jpg"/>        Specify the form field that contains the image data, a UUID, or a path in the</p>

**Contao 5.7:** It is now possible to upload multiple files using the file upload feature. To address a specific file, `_0`, `_1`, etc. is appended to the field name. Example: if the field name is `stdupload` and 3 files are uploaded, the files can be accessed under the field names `stdupload_0`, `stdupload_1`, and `stdupload_2`.

## c) Barcode

Include a barcode from your data in the PDF:

▼ Type of position

<p><b>Type of position</b></p> <div style="border: 1px solid #ccc; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> <span>Bar code</span> <span>▼</span> </div> <p style="font-size: 0.8em; margin-top: 2px;">Select the type of position</p>	<p><b>Barcode type</b></p> <div style="border: 1px solid #ccc; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> <span>QR-CODE - Better error correction</span> <span>▼</span> </div> <p style="font-size: 0.8em; margin-top: 2px;">Select a barcode type</p>
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▼ Fill PDF form

**Inputs and texts**

Field name or "text"	Condition	
<span style="font-size: 0.8em;">::</span> "{{custom::partnumber}}"	-	used <span style="float: right; font-size: 0.8em;">📄 🗑️</span>
Enter the field name, or a text in Input values and/or text to be inserted her into PDF	The text is output only when the field is filled, in	Inversion: used = selected/checked; empty =

**Overwrite text color**

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Leave the field blank if you do not want to overwrite the default text color

**No automatic spaces**  
Suppresses the automatic insertion of spaces between fields.

**Remarks and notes**

Part number from insert tag

These notes are not displayed in the frontend

The following barcode types are available:  
(depending on the type, the character set is partially restricted)

## 2D bar codes

- QR-Code - Low error correction
- QR-Code - Medium error correction
- QR-Code - Better error correction
- QR-Code - Best error correction
- PDF417 (ISO/IEC 15438:2006)
- Datamatrix (ISO/IEC 16022:2006)

## 1D bar codes

- Code 39 - ANSI MH10.8M-1983 - USD-3 - 3 of 9
- Code 39 + Checksum
- Code 39 Extended
- Code 39 Extended + Checksum
- Code 93 - USS-93
- Standard 2 of 5
- Standard 2 of 5 + Checksum
- Interleaved 2 of 5
- Interleaved 2 of 5 + Checksum
- Code 128 AUTO

- Code 128 A
- Code 128 B
- Code 128 C
- EAN 8
- EAN 13
- UPC-A
- UPC-E
- 5-Ziffern UPC-Based Extension
- 2-Ziffern UPC-Based Extension
- MSI
- MSI + Checksum (module 11)
- Codabar
- Code 11
- Pharmacode
- Pharmacode TWO-TRACKS
- IMB - Intelligent Mail Barcode - Onecode - USPS-B-3200
- Postnet
- Planet
- RMS4CC (Royal Mail 4-state Customer Code) - CBC (Customer Bar Code)
- KIX (Klant index - Customer index)

As with text items, various form data, texts and insert tags can be linked here. The resulting text is encoded in the barcode. The barcode is normally output in the standard colour; if you want to use a different color, enter it in the Overwrite **text color** field.

▼ Positions and attributes

**Page in PDF\***

Page on which the item is to be inserted

**Condition**

The item is only output if the condition is fulfilled or the condition is empty.

**not used**  
not used = unchecked/not selected/empty.

**Position in X and Y\***



Position in mm from the upper left corner. If the value begins with + or -,

**Size of bar code**

Select the size.

Below this, enter the position in the PDF and the size of the barcode. It is also possible to specify a condition for inclusion; the barcode is only included if the condition is met.

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