

Formulas for Common Uses

Download the PDF of this article.

In this Article

Related Articles

PLEASE NOTE:

1. Formulas cannot be used in connector repeating sections. Javascript calculations cannot be used in connectors.
2. In the following formulas, change the `tfa_` fields to match your form's own field aliases. Additionally, field aliases from repeatable fields and sections cannot be used within FormAssembly formulas.
3. These are post-processing formula examples, and will not work with [Form Calculations](#)

Skip If Formulas

Skip an object creation if a field is empty

```
@IF(%tfa_XXX%="", "TRUE", "FALSE")
```

Skip an object creation if either of two fields are empty

```
@IF(@OR(%tfa_XXX%="", %tfa_YYY%=""), "TRUE", "FALSE")
```

Skip an object creation if a field contains a particular value

```
@IF(@CONTAINS("@company.com", %tfa_ZZZ%), "TRUE", "FALSE")
```

Are you working with checkboxes in your skip-if formula? Be sure to review this doc for more details on [using the checkbox choice alias in your formula](#) for the best results.

Blank Values

If you would like to have a formula check to see if a value is blank, and send a value based on that, you can use a formula like this:

```
@IF(%%tfa_1%%, %%tfa_1%%, %%tfa_2%%)
```

This formula says, "If there is a value in tfa_1, send that value. Otherwise, send the value in tfa_2"

Checkboxes

Check a box in Salesforce only if both "I agree to be contacted" and "I would like daily emails" checkboxes are checked

Set the field's mapping selector to **Formula**.

```
@IF(@AND(%%tfa_XXX%%="I agree to be contacted",  
%%tfa_YYY%%="I would like daily emails"), "1", "0")
```

Skip an object creation if a checkbox labeled "Don't create Contact" is checked

```
@IF(%%tfa_XXX%%, "TRUE", "FALSE")
```

Skip an object creation if a checkbox labeled "Create Contact" is unchecked

```
@IF(%%tfa_XXX%%="Create Contact", "FALSE", "TRUE")
```

Check a box in Salesforce if a certain option is selected from a multi-select drop-down list

Set the field's mapping selector to **Formula**.

```
@IF(@CONTAINS("Send me more information", %%tfa_XXX%%), "1", "0")
```

Formatting

Title-case format a respondent's name in Salesforce

Set the field's mapping selector to **Formula**.

```
@PROPER (%%tfa_XXX%%)
```

Add line breaks to a set of values being populated into a Salesforce field

Set the field's mapping selector to **Formula**.

```
@CONCATENATE (%%tfa_XXX%%, @CHAR (10), %%tfa_YYY%%)
```

Add a copy of the response data to a Salesforce text field

Set the field's mapping selector to **Formula**.

```
%%RESPONSE_TEXT%%
```

Add a copy of the response data to a Salesforce rich text field

Set the field's mapping selector to **Formula**.

```
@CONCATENATE ( "  
  ", %%RESPONSE_TEXT%%, "  
  ")
```

Dates and Times

Calculate an Age Using a Date Entered

Set the connector's field mapping selector to **Formula**.

```
@DATEDIF (@DATEVALUE (%%tfa_XXX%%), @TODAY (), "Y")
```

Output will be the year difference between the date entered and today's date. Replace tfa_XXX with the alias for the date field in your form.

Set today's date and time on a Salesforce Date field

Set the field's mapping selector to **Formula**.

```
@YMDTODAY ("" )
```

Output will include time and be in the following format: 2017-09-05-04:00

Set today's date and time on a Salesforce Date field (alternative method)

Set the field's mapping selector to **Formula**.

```
@LOCALNOW ("" )
```

Output will include time and be in the following format: 09/05/2017 17:17

Set today's date on a Salesforce Date field

Set the field's mapping selector to **Formula**.

```
@LOCALTODAY ("" )
```

Output will be in the following format: 09/05/2017

Set yesterday's date on a Salesforce DateTime field

Set the field's mapping selector to **Formula**.

```
@YMDNOW("-1 day")
```

Output will include the time and be in the following format: 2017-09-05T17:16:30-04:00

Set the date on a Salesforce Date field to a year from today's date

```
@YMDTODAY("+1 year", "Y-m-d")
```

Compare today's date with a specific date

```
@IF (@DATEVALUE (@LOCALTODAY ()) > @DATEVALUE ("01/15/2019"), "TRUE", "FALSE")
```

The output will be "TRUE" if the date listed (01/15/2019) has passed.

Note: FormAssembly formulas honor the same date format parameters as PHP. More information [can be found here](#).

Note: When pre-filling a Time field type from Salesforce, times will often pre-fill in the military time format (08:00:00.000Z). As a workaround, we suggest using the Salesforce field alias (%%SFA_Date_Field_c%%) in a formula in the pre-fill connector to trim the first 5 characters. For example:

@LEFT(%%SFA_Date_Field_c%%,5) will output 08:00.

Attachments

Give a user's file upload attachment a custom Salesforce file name while retaining the extension

Set the Attachment object's FileName field to **Formula**.

```
@CONCATENATE ("Profile_Photo.", @MID (%%tfa_XX%%, @COMPUTE (@FIND (".", %%tfa_XX%%, 1) + 1), 40))
```

Dynamic Email Notifications

You can set up your form to [send conditional email notifications](#). It will send to different email addresses based on an answer in your form.

FAQ

[Line Breaks in Concatenates](#)

[Send Leading Zeros to Salesforce](#)

How do I insert line breaks between parts of my concatenation formula?

Rich Text fields accept HTML5. Instead of concatenations with `@CHAR(10)`, use `
` for line breaks.

```
Dear person,  
%%tfa_13%%  
  
Hello Hello  
Hello
```

becomes:

```
Dear person,  
  
Great team work!  
  
Hello Hello  
Hello
```

When using line breaks in a concatenate formula, you can use `@CHAR(10)`.

```
@CONCATENATE("Dear ", %%tfa_1%%, ", ", @CHAR(10), "Great team work!") becomes:
```

```
Dear Bob,  
Great team work!
```

How do I keep leading zeros on a formula when sending to Salesforce?

You will need to replace the 5 in the formula below with the desired length for the number of characters you would like to send. Also, this does not appear to work when sending to a Number field type in Salesforce as the API strips the 0s. It needs to be sent to a text field.

```
@CONCATENATE (@REPT (0, 5-@LEN (%%tfa_1%%)), %%tfa_1%%)
```

Note: FormAssembly's formula engine can only handle a maximum integer/number length of 19 digits. This means if you are trying to prefill or use a formula with a number that is longer than 19 digits, it will be cut off. There is no limit for letters, only for numbers.

How do I format a currency field to always add a decimal with two places?

If you are using email notifications or the autoresponder, you may see that currency amounts are automatically stripped of 0's if they are after a decimal. If you would like those 0's to remain, you can use the following formula:

```
@IF (@CONTAINS (".", %%tfa_1%%), @IF (@COMPUTE (@LEN (%%tfa_1%%) - @SEARCH (".", %%tfa_1%%)) = 2, %%tfa_1%%, @CONCATENATE (%%tfa_1%%, "0")), @CONCATENATE (%%tfa_1%%, ".00"))
```
