

Advanced table cells formatting

General information

The Table Transformer macro supports [Confluence Wiki Markup](#) (the `FORMATWIKI` function) and [Markdown syntax](#) (the `FORMATMARKDOWN` function) for the purposes of cell formatting.



These functions don't support formatting of complex macros that dynamically change the content, get data from someplace (e.g [User List Macro](#), [Expand Macro](#) etc.)

Below you can find how Table Transformer helps to enhance the formatting abilities of tables in Confluence.

Use cases

Changing alignment

Use case:

You need to align text in some columns of the table.

Solution:

1. Switch the page to the edit mode.
2. Insert the Table Transformer macro and paste the table or the macros outputting tables within the macro body.
3. Select the macro and click **Edit**.
4. In the **Presets** tab select **Custom transformation** and click **Next**.
5. Enter the following SQL query:

```
SELECT  FORMATWIKI("{cell:vertical-align=bottom}" + T1.'Bill to' + "{cell}") AS
'Bill to', FORMATWIKI("{cell:align=right}" +
T1.'Invoice'+ "{cell}") AS 'Invoices',
T1.'Date', T1.'Product', T1.'Price' FROM T1
```

6. Click **Next**.
7. [Define the table settings and view options](#) if needed.
8. **Save** the macro and the page.

Changing column width

Use case:

You need to change columns width in the merged table.

Solution:

1. Switch the page to the edit mode.
2. Insert the Table Transformer macro and paste the table or the macros outputting tables within the macro body.
3. Select the macro and click **Edit**.
4. In the **Presets** tab select **Custom transformation** and click **Next**.
5. Enter the following SQL query:

```
SELECT *, FORMATWIKI("{cell:width=100px}" +
'Ticket'+ "{cell}") AS 'Ticket', FORMATWIKI
("{cell:width=150px}" + 'Description'+
"{cell}") AS 'Description' FROM T*
```

6. Click **Next**.
7. [Define the table settings and view options](#) if needed.
8. **Save** the macro and the page.

Changing cells height

Use case:

You need to change cells height of a given table.

Solution:

1. Switch the page to the edit mode.
2. Insert the Table Transformer macro and paste the table or the macros outputting tables within the macro body.
3. Select the macro and click **Edit**.
4. In the **Presets** tab select **Custom transformation** and click **Next**.
5. Enter one of the following SQL query patterns:
- **to adjust the height of a column:**

```
SELECT FORMATWIKI("{cell:height=100px}",
T1.'Transaction_Amount', "{cell}")
AS 'Transaction_Amount', T1.'Service Agent'
FROM T*
```

 The **height** applied to at least **one column** applies to the entire table.

- to adjust the height of a row :

```
SELECT CASE WHEN T1.'Service Agent'= "Peter  
Jacobs" THEN FORMATWIKI("{cell:  
height=100px}",T1.'Service Agent',"{cell}")  
END AS 'Service Agent', T1.'Transaction  
Type',T1.'Transaction Status' FROM T*
```

 Pick at least **one value in a row** to adjust the cells height and add a conditional function such as *IF*, *CASE WHEN*, etc. paired with the *FORMATWIKI* function.

6. Click **Next**.
7. [Define the table settings and view options](#) if needed.
8. **Save** the macro and the page.

Adding line breaks

Use case:

You need to add a line break.

Solution:

1. Switch the page to the edit mode.
2. Insert the Table Transformer macro and paste the table or the macros outputting tables within the macro body.
3. Select the macro and click **Edit**.
4. In the **Presets** tab select **Custom transformation** and click **Next**.
5. Enter the following SQL query:

```
SELECT FORMATWIKI(T1.'Name'+ " \n" +  
T1.'Surname') AS 'Representative 1',  
FORMATMARKDOWN(T1.'Name'+ " \n" +  
T1.'Surname') AS 'Representative 2',  
FORMATWIKI(T1.'Name'+ " \\ " + T1.'Surname')  
AS 'Representative 3' FROM T1
```



Three alternative ways of adding line breaks are shown in the SQL query.

6. Click **Next**.
7. [Define the table settings and view options](#) if needed.
8. **Save** the macro and the page.

Adding text color

Use case:

You need to merge tables, create a new column with the sum of two others, and then highlight and align text.

Solution:

1. Switch the page to the edit mode.
2. Insert the Table Transformer macro and paste the table or the macros outputting tables within the macro body.
3. Select the macro and click **Edit**.
4. In the **Presets** tab select **Custom transformation** and click **Next**.
5. Enter the following SQL query:

```
SELECT T1.'Name', T1.'Income 2019',  
T2.'Income 2020', FORMATWIKI("{cell:  
textColor=red|align=right}" + ( T1.'Income  
2019' + T2.'Income 2020') + "{cell}") AS  
'Total Income' FROM T1 OUTER JOIN T2 ON  
T1.'Name' = T2.'Name'
```

6. Click **Next**.
7. [Define the table settings and view options](#) if needed.
8. **Save** the macro and the page.

Text formatting

Use case:

You need to format some text.

Solution:

1. Switch the page to the edit mode.
2. Insert the Table Transformer macro and paste the table or the macros outputting tables within the macro body.
3. Select the macro and click **Edit**.
4. In the **Presets** tab select **Custom transformation** and click **Next**.
5. Enter the following SQL query:

```
SELECT *, FORMATWIKI("** plain text \n *
_italics_ \n * *bold* \n * **italics bold**
\n * text~with subscript~ \n * -
strikethrough- \n * text with^superscript^
\n * {{monospaced}} \n * +inserted text+ \n
* {noformat}no format{noformat} \nbq. Here's
how you make a paragraph appear as a block
quotation") AS 'Wiki Markup' FROM T*
```

6. Click **Next**.
7. [Define the table settings and view options](#) if needed.
8. **Save** the macro and the page.

hanging font size, style

Use case:

You need to adjust the font size, style.

Solution:

1. Switch the page to the edit mode.
2. Insert the Table Transformer macro and paste the table or the macros outputting tables within the macro body.
3. Select the macro and click **Edit**.
4. In the **Presets** tab select **Custom transformation** and click **Next**.
5. Enter either of the following SQL query patterns:

```
SELECT FORMATWIKI("{cell:font-size=50px|font-
weight=bold}", T1.'Transaction Type',
"{cell}")
AS 'Transaction Type',
FORMATWIKI("{cell:font-size: 30px; font-
weight: bold;}", T1.'Service Agent',
"{cell}")
AS 'Service Agent' FROM T*
```

6. Click **Next**.
7. [Define the table settings and view options](#) if needed.
8. **Save** the macro and the page.

Escaping special characters for wiki markup

Use case:

You need to escape special characters for wiki markup.

Solution:

1. Switch the page to the edit mode.
2. Insert the Table Transformer macro and paste the table or the macros outputting tables within the macro body.
3. Select the macro and click **Edit**.
4. In the **Presets** tab select **Custom transformation** and click **Next**.
5. Enter the following SQL query:

```
SELECT *, FORMATWIKI(T1.'Description') AS
'FORMATWIKI', FORMATWIKI(""+ESCAPEMARKUP
(T1.'Description')+"") AS
'FORMATWIKI+ESCAPEMARKUP' FROM T1
```

6. Click **Next**.
7. [Define the table settings and view options](#) if needed.
8. **Save** the macro and the page.

Adding bullet, numbered list

Use case:

You need to merge tables and apply bullet or numbered list to merged data.

Solution:

1. Switch the page to the edit mode.
2. Insert the Table Transformer macro and paste the table or the macros outputting tables within the macro body.
3. Select the macro and click **Edit**.
4. In the **Presets** tab select **Custom transformation** and click **Next**.
5. Enter the following SQL query:

```
SELECT 'Date', FORMATWIKI(SUM("# " + 'Notes' + "\n")) AS 'All Notes' FROM (SELECT * FROM T*) GROUP BY 'Date' ORDER BY 'Date'
```

or

```
SELECT 'Date', FORMATWIKI(SUM("# " + 'Notes' + "\n")) AS 'All Notes' FROM (SELECT * FROM T*) GROUP BY 'Date' ORDER BY 'Date'
```

6. Click **Next**.
7. [Define the table settings and view options](#) if needed.
8. **Save** the macro and the page.

Adding background, text color

Use case:

You need to add background and text color.

Solution:

1. Switch the page to the edit mode.
2. Insert the Table Transformer macro and paste the table or the macros outputting tables within the macro body.
3. Select the macro and click **Edit**.
4. In the **Presets** tab select **Custom transformation** and click **Next**.
5. Enter the following SQL query:

```
SELECT
FORMATWIKI("{cell:bgColor=yellow}" +
T1.'Rep' + "{cell}") AS 'Rep',
FORMATWIKI("{cell:bgColor=#FFE5B4}" +
T1.'Department'+ "{cell}") AS 'Department',
FORMATWIKI("{cell:
bgColor=orange|textColor=yellow|align=center|
vertical-align=bottom|width=500px}"
+ T1.'City'+ "{cell}") AS 'City',
FORMATWIKI("{panel:
bgColor=orange|textColor=white}" +
T1.'City'+ "{panel}") AS 'City 1',
FORMATWIKI("{color:orange}" + T1.'City' +
"{color}") AS 'City 2'
FROM T1
```



You can write both a color name from [this list](#) and your own HEX code in the SQL query.

 Keep the following order of attribues: bgColor, textColor, align, width.

6. Click **Next**.
7. [Define the table settings and view options](#) if needed.
8. **Save** the macro and the page.

Hex codes:

FFFFFF	000000	333333	666666	999999	CCCCCC	CCCC99	9999CC	666699
660000	663300	996633	003300	003333	003399	000066	330066	660066
990000	993300	CC9900	006600	336666	0033FF	000099	660099	990066
CC0000	CC3300	FFCC00	009900	006666	0066FF	0000CC	663399	CC0099
FF0000	FF3300	FFFF00	00CC00	009999	0099FF	0000FF	9900CC	FF0099
CC3333	FF6600	FFFF33	00FF00	00CCCC	00CCFF	3366FF	9933FF	FF00FF
FF6666	FF6633	FFFF66	66FF66	66CCCC	00FFFF	3399FF	9966FF	FF66FF
FF9999	FF9966	FFFF99	99FF99	66FFCC	99FFFF	66CCFF	9999FF	FF99FF
FFCCCC	FFCC99	FFFFCC	CCFFCC	99FFCC	CCFFFF	99CCFF	CCCCFF	FFCCFF

Adding border color

Use case:

You need to adjust the color of a given column/table.

Solution:

1. Switch the page to the edit mode.
2. Insert the Table Transformer macro and paste the table or the macros outputting tables within the macro body.
3. Select the macro and click **Edit**.
4. In the **Presets** tab select **Custom transformation** and click **Next**.
5. Enter either of the following SQL query patterns:

```
SELECT FORMATWIKI("{cell:border-color=red}",
T1. 'Transaction_Amount', "{cell}")
AS 'Transaction_Amount' FROM T*
```

6. Click **Next**.
7. [Define the table settings and view options](#) if needed.
8. **Save** the macro and the page.

Conditional inserting of values and coloring cells background

Use case:

You need to add values in a newly created column and color its cells through conditions.

Solution:

1. Switch the page to the edit mode.
2. Insert the Table Transformer macro and paste the table or the macros outputting tables within the macro body.
3. Select the macro and click **Edit**.
4. In the **Presets** tab select **Custom transformation** and click **Next**.
5. Enter the following SQL query:

```
SELECT T1.'Employees', CASE WHEN T1.'Job
Title'="Developer" THEN FORMATWIKI("{cell:
bgColor=#0099FF}Dev{cell}") WHEN T1.'Job
Title'="Product Analyst" THEN FORMATWIKI
("{cell:bgColor=#00CC00}BI{cell}") ELSE
FORMATWIKI("{cell:bgColor=grey}Others
{cell}") END AS 'Team' FROM T1 ORDER BY
'Team'
```

6. Click **Next**.
7. [Define the table settings and view options](#) if needed.
8. **Save** the macro and the page.

Conditional formatting

Use case:

You need to add conditional formatting of table data.

Solution:

1. Switch the page to the edit mode.
2. Insert the Table Transformer macro and paste the table or the macros outputting tables within the macro body.
3. Select the macro and click **Edit**.
4. In the **Presets** tab select **Custom transformation** and click **Next**.
5. Enter the following SQL query:

```
SELECT T1.'Month', FORMATWIKI("{cell:
bgColor=" + CASE WHEN T1.'Bread' <= "100"
THEN "#FA7E70" WHEN T1.'Bread' > "100" AND
T1.'Bread' <= "200" THEN "#FFE784" ELSE
"#8FCA7D" END + "}" + "$" + T1.'Bread' +
"{cell}") AS 'Bread', FORMATWIKI("{cell:
bgColor=" + CASE WHEN T1.'Rolls' <= "100"
THEN "#FA7E70" WHEN T1.'Rolls' > "100" AND
T1.'Rolls' <= "200" THEN "#FFE784" ELSE
"#8FCA7D" END + "}" + "$" + T1.'Rolls' +
"{cell}") AS 'Rolls', FORMATWIKI("{cell:
bgColor=" + CASE WHEN T1.'Cookies' <= "100"
THEN "#FA7E70" WHEN T1.'Cookies' > "100" AND
T1.'Cookies' <= "200" THEN "#FFE784" ELSE
"#8FCA7D" END + "}" + "$" + T1.'Cookies' +
"{cell}") AS 'Cookies', FORMATWIKI("{cell:
bgColor=" + CASE WHEN T1.'Muffins' <= "100"
THEN "#FA7E70" WHEN T1.'Muffins' > "100" AND
T1.'Muffins' <= "200" THEN "#FFE784" ELSE
"#8FCA7D" END + "}" + "$" + T1.'Muffins' +
"{cell}") AS 'Muffins' FROM T*
```

6. Click **Next**.
7. [Define the table settings and view options](#) if needed.
8. **Save** the macro and the page.

Hex codes:

#99b3ff	
#9999ff	
#b399ff	
#cc99ff	
#e699ff	
#ff99ff	
#ff99e6	
#ff99cc	
#ff99b3	
#ff9999	

#ff9999	
#ffb399	
#ffcc99	
#ffe699	
#ffff99	
#e6ff99	
#ccff99	
#b3ff99	
#99ff99	
#99ffb3	

Conditional inserting of statuses

Use case:

You need to insert statuses depending on some condition.

Solution:

1. Switch the page to the edit mode.
2. Insert the Table Transformer macro and paste the table or the macros outputting tables within the macro body.
3. Select the macro and click **Edit**.
4. In the **Presets** tab select **Custom transformation** and click **Next**.
5. Enter the following SQL query:

```
SELECT *, CASE WHEN 'Employees' < 60 THEN FORMATWIKI("{status:colour=Green|title=Low}") WHEN
'Employees' >= 60 AND 'Employees' < 150 THEN FORMATWIKI("{status:colour=Yellow|title=Medium}") ELSE
FORMATWIKI("{status:colour=Red|title=High}") END AS 'Status' FROM T1
```

6. Click **Next**.
7. [Define the table settings and view options](#) if needed.
8. **Save** the macro and the page.



You can also use [an alternative way](#) of inserting statuses in a table.

Adding lighter status color

Use case:

You need to choose a lighter status color.

Solution:

1. Switch the page to the edit mode.
2. Insert the Status macro and paste the table or the macros outputting tables within the macro body.
3. Select the macro and click **Edit**.
4. In the **Presets** tab select **Custom transformation** and click **Next**.
5. Enter the following SQL query:

```
SELECT *,
CASE
WHEN 'Employees' < 60
THEN FORMATWIKI("{status:
colour=Green|subtle=true|title=Low}")
WHEN 'Employees' >= 60 AND 'Employees' < 150
THEN FORMATWIKI("{status:
colour=Yellow|subtle=true|title=Medium}")
ELSE FORMATWIKI("{status:
colour=Red|subtle=true|title=High}")
END AS 'Status'
FROM T1
```

6. Click **Next**.
7. [Define the table settings and view options](#) if needed.
8. **Save** the macro and the page.

Creating clickable links

Use case:

You need to create clickable links from multiple text pieces put together.

Solution:

1. Switch the page to the edit mode.
2. Insert the Table Transformer macro and paste the table or the macros outputting tables within the macro body.
3. Select the macro and click **Edit**.
4. In the **Presets** tab select **Custom transformation** and click **Next**.
5. Enter the following SQL query:

```
SELECT T1.'Name', T1.'Phone Number',
T1.'City', FORMATWIKI("[ " + CONCAT
("https://", T1.'City', ".mycompany.com/",
T2.'Folder') + "]") AS 'workspace',
FORMATWIKI("[The link|" + CONCAT("https://",
T1.'City', ".mycompany.com/", T2.'Folder') +
"]") AS 'workspace 2' FROM T1 OUTER JOIN T2
ON T1.'Name' = T2.'Name'
```

6. Click **Next**.
7. [Define the table settings and view options](#) if needed.
8. **Save** the macro and the page.



[Here's the example](#) on how to create them to the JIRA issues.

Preserving initial cell formatting

Use case:

You need to preserve the initial formatting and apply a new one.

Solution:

1. Switch the page to the edit mode.
2. Insert the Table Transformer macro and paste the table or the macros outputting tables within the macro body.
3. Select the macro and click **Edit**.
4. In the **Presets** tab select **Custom transformation** and click **Next**.
5. Enter the following SQL query:

```
SELECT 'Week', FORMATWIKI("{cell:
textColor=green|align=left|width=200px}",
'Plan for Weekly Progress', "{cell}") AS
'Weekly plan' FROM T*
```

6. Click **Next**.
7. [Define the table settings and view options](#) if needed.
8. **Save** the macro and the page.



Preserving initial cell formatting doesn't work in case of rows concatenation.

