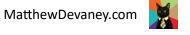# 🎨 Color Functions

Color	Sets a property to a built-in color value.	
ColorFade	Fades a color value.	`colorfade`
ColorValue	Translates a CSS color name or a hex code to a color value.	`color_text`
RGBA	Returns a color value for a set of red, green, blue, and alpha components.	`red_value` `green_value` `blue_value` `alpha_value`

🗃️ Datasource Functions

DataSourceInfo	Provides information about a data source	`source` `datasourceinfo_enum` `column_name`
Defaults	Returns the default values for a data source	`source`
RecordInfo	Provides information about a record of a data source	`record` `record_info_enum`
Refresh	Refreshes the records of a data source	`connected_data_source`
Revert	Reloads and clears errors for the records of a data source	`source` `item`

📅 Date & Time Functions

Calendar	Retrieves information about the calendar for the current locale.	
Clock	Retrieves information about the clock for the current locale.	
Date	Returns a date/time value, based on Year, Month, and Day values.	`year` `month` `day`
DateAdd	Adds days, months, quarters, or years to a date/time value.	`start_date` `number_of_units` `units`
DateDiff	Subtracts two date values, and shows the result in days, months, quarters, or years.	`start_date` `end_date` `units`
DateTimeValue	Converts a date and time string to a date/time value.	`time_text` `language_code`
DateValue	Converts a date-only string to a date/time value.	`date_text` `language_code`
Day	Retrieves the day portion of a date/time value.	`date`
Hour	Returns the hour portion of a date/time value.	`date_time`
ISOWeekNum	Returns the ISO week number of a date/time value.	`date`

Minute	Retrieves the minute portion of a date/time value.	`date_time`
Month	Retrieves the month portion of a date/time value.	`date`
Now	Returns the current date/time value.	
Second	Retrieves the second portion of a date/time value.	`date_time`
Time	Returns a date/time value, based on Hour, Minute,and Second values.	`hour` `minute` `second`
TimeValue	Converts a time-only string to a date/time value.	`time_text` `language_code`
TimeZoneOffset	Returns the difference between UTC and the user's local time in minutes.	`date`
Today	Returns the current date value.	
UTCNow	Returns the current timezone independent date/time value	
UTCToday	Returns the current timezone independent date value	
Weekday	Retrieves the weekday portion of a date/time value.	`date`

WeekNum	Returns the week number of a date/time value.	`date`
Year	Retrieves the year portion of a date/time value.	`date`

⚠️ Error Functions

Errors	Provides error information for previous changes to a data source	`source`
Error	A record containing the custom values for the produced error.	`error_information`
IfError	Detects errors and provides an alternative value or takes action	`value` `replacement1` `value2` `replacement2` `...` `default_result`

📄 Forms & Controls Functions

EditForm	Resets a form control for editing of an item.	`form`
NewForm	Resets a form control for creation of an item.	`form`
Reset	Resets an input control to its default value, discarding any user changes.	`control`
ResetForm	Resets a form control for editing of an existing item.	`form`
Select	Simulates a select action on a control, causing the OnSelect formula to be evaluated.	`control` `row_or_column` `child_control`
SetFocus	Moves input focus to a specific control.	`control`
SubmitForm	Saves the item in a form control to the data source.	`form`
ViewForm	Resets a form control for viewing of an existing item.	`form`

🔎 Information Functions

IsBlank	Checks for a blank value	`expression`
IsBlankOrError	Checks for a blank value or error	`expression`
IsEmpty	Checks for an empty table	`source`
IsError	Checks for an error	`value`
IsMatch	Checks a string against a pattern. Regular expressions can be used	`textformat` `extent`
IsNumeric	Checks for a numeric value	`value`
IsToday	Checks whether a date/time value is sometime today	`date`
IsUTCToday	Checks whether a timezone independent date/time value is today	
IsType	Checks whether a record reference refers to a specific table type	`value` `typeTable`

🧮 Logical Functions

If	Returns one value if a condition is true and another value if not.	`logical_test1` `true_value1` `logical_test2` `true_value2` `…` `elsevalue`
And	Boolean logic AND. Returns true if all arguments are true. You can also use the && operator.	`logical1` `logical2` `logical3` `…`
EndsWith	Checks whether a text string ends with another text string.	`textend`
Match	Extracts a substring based on a pattern. Regular expressions can be used.	`text` `regular_expression` `options`
MatchAll	Extracts multiple substrings based on a pattern. Regular expressions can be used.	`text` `regular_expression` `options`
Not	Boolean logic NOT. Returns true if its argument is false, and returns false if its argument is true. You can also use the ! operator.	`logical`
Or	Boolean logic OR. Returns true if any of its arguments are true. You can also use the || operator.	`logical1` `logical2` `logical3` `…`
StartsWith	Checks if a text string begins with another text string.	`text` `start`

Switch

Matches with a set of values and then evaluates a corresponding formula.

```
switch_value
match_value1 match_result1
match_value2 Match_result2
... default_result
```

🧮 Math Functions

Abs	Absolute value of a number	`number`
Exp	Constant e raised to a power	`number`
Int	Rounds down to the nearest integer	`number`
Ln	Returns the natural log	`number`
Log	Returns the logarithm of a number for the given base. The default base is 10.	`number`
Mod	Remainder after a number is divided by a divisor	`number` `divisor`
Pi	Returns the number π	
Power	Number raised to a power. You can also use the ^ operator	`base` `exponent`
Rand	Returns a pseudo-random number	
RandBetween	Returns a random number between bottom and top, evenly distributed	`bottom` `top`
Round	Rounds a number to the closest number	`number` `num_digits`

RoundDown	Rounds down to the largest previous number.	`number` `num_digits`
RoundUp	Rounds up to the smallest next number.	`number` `num_digits`
Sqrt	Returns the square root of a number	`number`
Sum	Calculates the sum of a table expression	`source` `expression`
Trunc	Truncates the number to only the integer portion by removing any decimal portion	`number` `num_digits`

🧭 Navigation Functions

Back	Displays the previous screen.	`transition`
Exit	Exits the currently running app and optionally signs out the current user.	`logout`
Navigate	Changes which screen is displayed.	`target` `transition` `context`
RequestHide	Hides a SharePoint form.	

📶 Offline Functions

ClearData	Clears a collection or all collections from an app host such as a local device.	`name`
LoadData	Loads a collection from an app host such as a local device.	`collectionname` `ignore_non_existent_file`
SaveData	Saves a collection to an app host such as a local device.	`collectionname`

⬡ Other Functions

AsType	Treats a record reference as a specific table type.	`valuetype` `table`
Blank	Returns a blank value that can be used to insert a NULL value in a data source.	
Coalesce	Replaces blank values while leaving non-blank values unchanged.	`value1` `value2` `...`
Concurrent	Evaluates multiple formulas concurrently with one another.	`formula1` `formula2` `formula3` `...`
Notify	Displays a banner message to the user.	`text` `notification_type` `timeout`
PDF*	Export a screen or a container to a PDF	`target` `options`
Print	Open the web browser print dialog to print a screen or save as PDF	
ReadNFC	Reads a Near Field Communication (NFC) tag.	
Run	Starts a Power Automate Flow with the Power Apps trigger (no official documentation)	`parameter1` `parameter2` `...`

🚦 Signals Functions

Acceleration	Reads the acceleration sensor in your device.
App	Provides information about the currently running app and control over the app's behavior.
Compass	Returns your compass heading.
Connection	Returns information about your network connection.
Disable	Disables a signal, such as Location for reading the GPS.
Enable	Enables a signal, such as Location for reading the GPS.
Language	Returns the language tag of the current user.
Location	Returns your location as a map coordinate by using the Global Positioning System (GPS) and other information.
User	Returns information about the current user

🧑‍🔬 Statistical Functions

Average	Calculates the sum of a table expression	`source` `expression`
Count	Counts a single column table of records that contain numbers	`source`
CountA	Counts a single column table of records that aren't empty	`source`
CountIf	Counts table records that satisfy a condition	`source` `condition1` `...`
CountRows	Counts table records	`source`
Max	Maximum value of a set of numbers	`source` `expression`
Min	Minimum value of a set of numbers	`source` `expression`
StdevP	Standard deviation of a table of a table expression	`source` `expression`
VarP	Returns the variance of its arguments	`source` `expression`

Table Functions

AddColumns	Returns a table with columns added.	`source` `column1` `expression1` `column2` `expression2` `...`
Choices	Returns a table of the possible values for a lookup column.	`column` `searchtext`
Clear	Deletes all data from a collection.	`collection`
ClearCollect	Deletes all data from a collection and then adds a set of records.	`collection` `item1` `item2` `...`
Collect	Creates a collection or adds data to a data source.	`collection` `item1` `item2` `...`
Distinct	Summarizes records of a table, removing duplicates.	`source` `expression`
DropColumns	Returns a table with one or more columns removed.	`source` `column_name1` `column_name2` `...`
Filter	Returns a filtered table based on one or more criteria.	`Source` `logical_test1` `logical_test2` `...`
First	Returns the first record of a table.	`source`
FirstN	Returns the first set of records (N records) of a table.	`source` `count`
ForAll	Calculates values and performs actions for all records of a table.	`source` `count`

GroupBy	Returns a table with records grouped together.	`source` `column_name1` `column_name2` `...` `group_name`
Index	Returns a row from a table at the specified row number	`table` `index`
JSON	Generates a JSON text string for a table, a record, or a value.	`data` `format`
Last	Returns the last record of a table.	`source`
LastN	Returns the last set of records (N records) of a table.	`source` `count`
LookUp	Looks up a single record in a table based on one or more criteria.	`source` `condition` `result`
Patch	Modifies or creates a record in a data source, or merges records outside of a data source.	`source` `record` `update1` `update2` `...`
Relate	Relates records of two tables through a one-to-many or many-to-many relationship.	`Entity1RelatedTable` `Entity2Record`
Remove	Removes one or more specific records from a data source.	`collection` `item1` `item2` `...`
RemoveIf	Removes records from a data source based on a condition.	`Collection` `condition1` `condition2` `condition3` `...`
RenameColumns	Renames columns of a table.	`source` `old_column1` `new_column1`

		old_column2 new_column2 ...

Search	Finds records in a table that contain a string in one of their columns.	source text column1 column2 ...
Sequence	Generate a table of sequential numbers, useful when iterating with ForAll.	records start step
ShowColumns	Returns a table with only selected columns.	Source column_name1 column_name2 ...
Shuffle	Randomly reorders the records of a table.	source
Sort	Returns a sorted table based on a formula.	Source expression order
SortByColumns	Returns a sorted table based on one or more columns.	source column1 order1 column2 order2 ...
Table	Creates a temporary table.	record1 record2 record3
Ungroup	Removes a grouping.	source group_name
Unrelate	Unrelates records of two tables from a one-to-many or many-to-many relationship.	Entity1RelatedTable Entity2Record
Update	Replaces a record in a data source.	collection old new all

UpdateIf

Modifies a set of records in a data source based on a condition.

`collection` `condition1` `item1` `condition2` `item2` `...`

🧪 Testing Functions

Assert	Evaluates to true or false in a test.	`expression`
SetProperty	Simulates interactions with input controls.	`control_property` `value`
Trace	Provide additional information in your test results.	`message` `severity` `custom_record` `trace_options`

abc Text Functions

Boolean	Converts text to a true or false value	`text`
Char	Translates a character code into a string.	`number`
Concat	Joins text strings from a data source.	`table` `expression` `separator`
Concatenate	Joins text strings	`text1` `text2` `...`
Copy	Takes a text value and copies it to the clipboard	`text`
Find	Checks whether one string appears within another and returns thelocation.	`find_text` `within_text` `start_num`
GUID	Converts a GUID string to a GUID value or creates a new GUID value.	`GUID_String`
Left	Returns the left-most portion of a string.	`text` `num_chars`
Len	Returns the length of a string.	`text`
Lower	Converts letters in a string of text to all lowercase.	`text`

Mid	Returns the middle portion of a string.	`text` `start_number` `num_chars`
ParseJSON*	Interprets a JSON string and returns an untyped object	`input`
Proper	Converts the first letter of each word in a string to uppercase, andconverts the rest to lowercase.	`text`
Replace	Replaces part of a string with another string, by starting position ofthe string.	`old_text` `start_num` `num_chars` `new_text`
Right	Returns the right-most portion of a string.	`text` `num_chars`
Split	Splits a text string into a table of substrings.	`text` `separator`
Substitute	Replaces part of a string with another string, by matching strings.	`old_text` `text_new` `instance_number`
Text	Converts any value and formats a number or date/time value to a stringof text.	`value` `format_text` `language`
Trim	Removes extra spaces from the ends and interior of a string of text.	`text`
TrimEnds	Removes extra spaces from the ends of a string of text only.	`text`

| Upper | Converts letters in a string of text to all uppercase. | `text` |
| Value | Converts a string to a number. | `value` `language` |

📐 Trigonometry Functions

Acos	Returns the arccosine of a number, in radians.	`number`
Acot	Returns the arccotangent of a number, in radians.	`number`
Asin	Returns the arcsine of a number, in radians.	`number`
Atan	Returns the arctangent of a number, in radians.	`number`
Atan2	Returns the arctangent based on an (x,y) coordinate, in radians.	`x_coordinate` `y_coordinate`
Cos	Returns the cosine of an angle specified in radians.	`number`
Cot	Returns the cotangent of an angle specified in radians.	`number`
Degrees	Converts radians to degrees.	`number`
Radians	Converts degrees to radians.	`number`
Sin	Returns the sine of an angle specified in radians.	`number`
Tan	Returns the tangent of an angle specified in radians.	`number`

❓ Variable Functions

Set	Sets the value of a global variable.	`variable` `value`
UpdateContext	Sets the value of one or more context variables of the current screen.	`context`
With	Calculates values and performs actions for a single record, including inline records of named values.	`scope` `formula`

🌐 Web Functions

Download	Downloads a file from the web to the local device.	`address`
EncodeUrl	Encodes special characters using URL encoding.	`text`
HashTags	Extracts the hashtags (#strings) from a string.	`text`
Launch	Launches a webpage or a canvas app.	`address` `parameter_name1` `parameter_value1` `parameter_name2` `parameter_value2` `target`
Param	Access parameters passed to a canvas app when launched.	`name`
PlainText	Removes HTML and XML tags from a string.	`text`