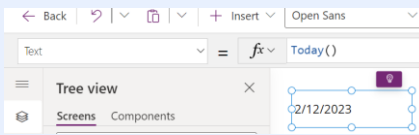# CHEAT SHEETS   **PowerFX** - **DATE**

DATE - Use the Date function to working with Date format data type objects

System Date

Syntax: Today()
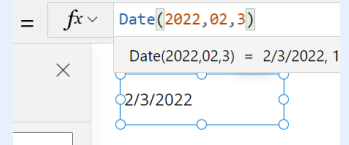
Returns Todays date

Convert to Date

Syntax:
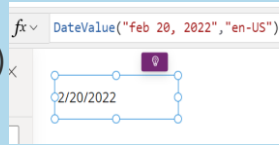Date(year,month,day)

Creates a date from a year, month and day

`Date(2022,02,3)`
`Date(2022,02,3) = 2/3/2022, 1`
`2/3/2022`

Convert Text to date

Syntax:
DateValue(string [,language])

Converts a date stored as text into a date data-type

`DateValue("feb 20, 2022","en-US")`
`2/20/2022`

Convert Date to Text

Syntax:
Text(Date,Format)

Applies a date format and changes the data-type to text

`Text(Date(2021,03,25))`
`Text(Date(2021,03,25)) = 3/25/2021    Data type: text`
`3/25/2021`

`Text(value, format_text, …)    format_text: A`
`Text(Date(2021,03,25),)`

DateTimeFormat.LongDateTime24
DateTimeFormat.LongTime
DateTimeFormat.LongTime24
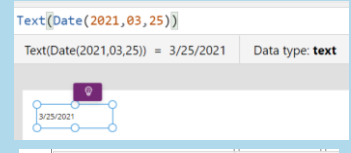
Formatting codes in the 2nd parameter of the Text function.
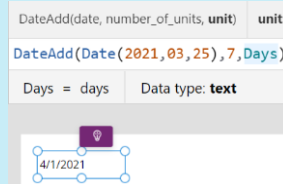
Enum Format	Text Format	Result
LongDate	"dddd, mmmm d, yyyy"	"Friday, January 15, 2021"
LongDateTime	"dddd, mmmm d, yyyy hh:mm:ss AM/PM"	"Friday, January 15, 2021 5:00:00 PM"
LongDateTime24	"dddd, mmmm d, yyyy hh:mm:ss"	"Friday, January 15, 2021 17:00:00"
ShortDate	"m/d/yyyy"	"1/15/2021"
ShortDateTime	"m/d/yyyy hh:mm AM/PM"	"1/15/2021 5:00 PM"
ShortDateTime24	"m/d/yyyy hh:mm"	"1/15/2021 17:00:00"
UTC		"2021-01-15T23:00:00.000Z"

Add to a Date

Syntax:
DateAdd(DateTime, Addition, [, Units])

Adds a number or days to a date & time value

`DateAdd(date, number_of_units, unit)    unit:`
`DateAdd(Date(2021,03,25),7,Days)`
`Days = days    Data type: text`
`4/1/2021`

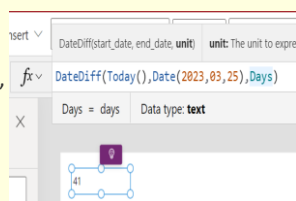## Gap inbetween Dates

Syntax:
DateDiff(StartDateTime, EndDateTime, [, Units])

Finds the a number or days between a start date and an end date

`DateDiff(start_date, end_date, unit)    unit: The unit to expres`
`DateDiff(Today(),Date(2023,03,25),Days)`
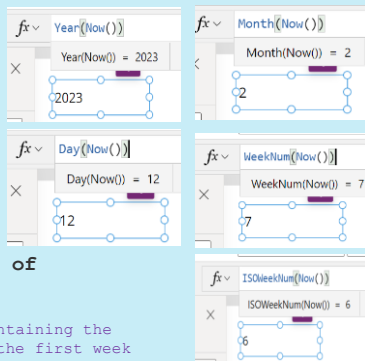`Days = days    Data type: text`
`41`

Parse Date

Syntax:
Year()
Month()
Day()
WeekNum()
ISOWeekNumber()

Extracts an single part of the date

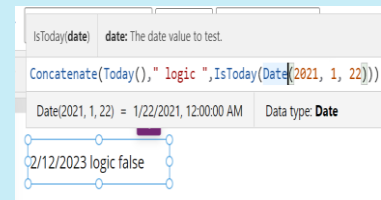** ISOWeekNum uses the week containing the first Thursday of the year as the first week of the year

`Year(Now())`
`Year(Now()) = 2023`
`2023`

`Month(Now())`
`Month(Now()) = 2`
`2`

`Day(Now())`
`Day(Now()) = 12`
`12`

`WeekNum(Now())`
`WeekNum(Now()) = 7`
`7`

`ISOWeekNum(Now())`
`ISOWeekNum(Now()) = 6`
`6`

Logic

Syntax:
IsToday(DateTime)

Returns True / False comparing if the date passes is todays date

`IsToday(date)    date: The date value to test.`
`Concatenate(Today()," logic ",IsToday(Date(2021, 1, 22)))`
`Date(2021, 1, 22) = 1/22/2021, 12:00:00 AM    Data type: Date`
`2/12/2023 logic false`