

# SERIALNUMBER Function

Generates a serial date number from a valid date value.

- Serial date number values begin with January 1, 1900.
- Source values can be a valid date or output of a function that generates a valid date.

**Wrangle vs. SQL:** This function is part of Wrangle, a proprietary data transformation language. Wrangle is not SQL. For more information, see *Wrangle Language*.

## Basic Usage

### Integer literal values:

```
serialnumber(date(2015,02,15))
```

**Output:** Returns the serial date number for February 15, 2015.

### Column reference values:

```
serialnumber(date(myYear, myMonth, myDay))
```

**Output:** Returns serial date number based on three input columns, which contain valid values for day, month, and year in the calendar.

## Syntax and Arguments

```
serialnumber(date_col)
```

Argument	Required?	Data Type	Description
date_col	Y	Datetime	Date literal, name of column containing valid date values, or function returning a valid date value.

For more information on syntax standards, see *Language Documentation Syntax Notes*.

### date\_col

Date literal, column containing date values, or function returning date values. Time values in the input value are not used.

- Missing values for this function in the source data result in missing values in the output.
- Multiple columns and wildcards are not supported.

### Usage Notes:

Required?	Data Type	Example Value
Yes	Datetime (literal, column reference, or function)	DATE(2020, 01, 02)

## Examples

**Tip:** For additional examples, see *Common Tasks*.

### Example - serial date numbers

#### Source:

eventId	Year	Month	Day
e001	2021	01	01
e002	2021	01	02
e003	2021	01	03
e004	2021	01	04
e005	2021	01	05

#### Transformation:

<b>Transformation Name</b>	New formula
<b>Parameter: Formula type</b>	Single row formula
<b>Parameter: Formula</b>	serialnumber(date(Year, Month, Day))
<b>Parameter: New column name</b>	'datSerialNumber'

#### Results:

eventId	Year	Month	Day	datSerialNumber
e001	2021	01	01	44197
e002	2021	01	02	44198
e003	2021	01	03	44199
e004	2021	01	04	44200
e005	2021	01	05	44201