

# How can I add days to a date in SAS, and can you provide an example?

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## RECOMMENDED CITATION

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In SAS, there are several ways to add days to a given date. One method is to use the INTNX function, which allows for the addition of a specified number of days to a date. This function takes in three arguments: the interval, the number of intervals to add, and the starting date. For example, the code "INTNX('DAY', 7, '01JAN2021')" will add 7 days to the date '01JAN2021' and return the date '08JAN2021'. This allows for easy manipulation of dates for various analytical purposes.

## Add Days to Date in SAS (With Example)

**The easiest way to add days to a date variable in SAS is to use the INTNX function.**

**This function uses the following basic syntax:**

**INTNX(interval, start\_date, increment)**

**where:**

**interval:** The interval to add to date (day, week, month, year, etc.)  
**start\_date:** Variable that contains start dates  
**increment:** The number of intervals to add

**The following example shows how to use this syntax in practice.**

**Example: Add Days to Date in SAS**

**Suppose we have the following dataset in SAS that shows the total sales made on various days at some store:**

```
/*create dataset*/  
data data1;  
input month day year sales;  
datalines;  
10 15 2022 45  
10 19 2022 50  
10 25 2022 39  
11 05 2022 14  
12 19 2022 29  
12 23 2022 40  
;  
run;
```

```
/*create second dataset with date formatted*/  
data data2;  
set data1;  
date=mdy(month,day,year);  
format date mmddy10.;  
drop month day year;  
run;
```

```
/*view dataset*/  
proc printdata=data2;
```

Obs	sales	date
1	45	10/15/2022
2	50	10/19/2022
3	39	10/25/2022
4	14	11/05/2022
5	29	12/19/2022
6	40	12/23/2022

**We can use the following code to create a new column called `date_plus5` that adds five days to the values in the date column:**

```
/*create new dataset with column that adds 5 days to  
date*/  
data data3;  
set data2;  
date_plus5=intnx('day', date, 5);  
format date_plus5 mmddyy10.;  
run;  
  
/*view dataset*/  
proc printdata=data3;
```

Obs	sales	date	date_plus5
1	45	10/15/2022	10/20/2022
2	50	10/19/2022	10/24/2022
3	39	10/25/2022	10/30/2022
4	14	11/05/2022	11/10/2022
5	29	12/19/2022	12/24/2022
6	40	12/23/2022	12/28/2022

Notice that the new column called `date_plus5` contains the values in the `date` column with five days added to them.

Note that you can also subtract days by simply using a negative value in the `INTNX` function.

For example, we can use the following code to subtract five days from each value in the `date` column:

```
/*create new dataset with column that subtracts 5 days  
to date*/  
data data3;  
set data2;  
date_minus5=intnx('day', date, -5);  
format date_minus5 mmddyy10.;  
run;
```

```
/*view dataset*/  
proc printdata=data3;
```

Obs	sales	date	date_minus5
1	45	10/15/2022	10/10/2022
2	50	10/19/2022	10/14/2022
3	39	10/25/2022	10/20/2022
4	14	11/05/2022	10/31/2022
5	29	12/19/2022	12/14/2022
6	40	12/23/2022	12/18/2022

**Notice that the new column called `dateminus5` contains the values in the `date` column with five days subtracted from them.**

**Note: You can find the complete documentation for the `SAS INTNX` function .**

**The following tutorials explain how to perform other common tasks in SAS:**