





♠ > API reference > DataFrame > pandas.DataF...

pandas.DataFrame.dropna

Remove missing values.

See the <u>User Guide</u> for more on which values are considered missing, and how to work with missing data.

Parameters:

axis: {0 or 'index', 1 or 'columns'}, default 0

Determine if rows or columns which contain missing values are removed.

- 0, or 'index': Drop rows which contain missing values.
- 1, or 'columns' : Drop columns which contain missing value.

Only a single axis is allowed.

how: {'any', 'all'}, default 'any'

Determine if row or column is removed from DataFrame, when we have at least one NA or all NA.

- 'any' : If any NA values are present, drop that row or column.
- 'all' : If all values are NA, drop that row or column.

thresh: int, optional

Require that many non-NA values. Cannot be combined with how.

subset: column label or sequence of labels, optional

Labels along other axis to consider, e.g. if you are dropping rows these would be a list of columns to include.

inplace: bool, default False

Whether to modify the DataFrame rather than creating a new one.

ignore_index : bool, default False

If True, the resulting axis will be labeled 0, 1, ..., n - 1.

• New in version 2.0.0.

Returns:

DataFrame or None

DataFrame with NA entries dropped from it or None if inplace=True.

```
DataFrame.isna
Indicate missing values.

DataFrame.notna
Indicate existing (non-missing) values.

DataFrame.fillna
Replace missing values.

Series.dropna
Drop missing values.

Index.dropna
Drop missing indices.
```

Examples

```
>>> df = pd.DataFrame({"name": ['Alfred', 'Batman', 'Catwoman'],
                     "toy": [np.nan, 'Batmobile', 'Bullwhip'],
. . .
                     "born": [pd.NaT, pd.Timestamp("1940-04-25"),
. . .
                             pd.NaT]})
. . .
>>> df
     name toy
                         born
0
   Alfred
                 NaN
                           NaT
   Batman Batmobile 1940-04-25
1
2 Catwoman Bullwhip
                          NaT
```

Drop the rows where at least one element is missing.

```
>>> df.dropna()
name toy born
1 Batman Batmobile 1940-04-25
```

Drop the columns where at least one element is missing.

Drop the rows where all elements are missing.

```
>>> df.dropna(how='all')
name toy born
O Alfred NaN NaT
1 Batman Batmobile 1940-04-25
2 Catwoman Bullwhip NaT
```

Keep only the rows with at least 2 non-NA values.

```
>>> df.dropna(thresh=2)
name toy born
Batman Batmobile 1940-04-25
Catwoman Bullwhip NaT
```

Define in which columns to look for missing values.

Previous pandas.DataFrame.bfill

Next pandas.DataFrame.ffill

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