

<merge>

内部結合
inner

(デフォルト)

```
pd.merge(df_ab, df_ac, how='inner', on='a')
```

df_ab	
a	b
0	a_1 b_1
1	a_2 b_2
2	a_3 b_3

df_ac	
a	c
0	a_1 c_1
1	a_2 c_2
2	a_4 c_4

a	b	c
0	a_1	b_1 c_1
1	a_2	b_2 c_2

左結合
left

```
pd.merge(df_ab, df_ac, how='left', on='a')
```

df_ab	
a	b
0	a_1 b_1
1	a_2 b_2
2	a_3 b_3

df_ac	
a	c
0	a_1 c_1
1	a_2 c_2
2	a_4 c_4

a	b	c
0	a_1	b_1 c_1
1	a_2	b_2 c_2
2	a_3	b_3 NaN

右結合
right

```
pd.merge(df_ab, df_ac, how='right', on='a')
```

df_ab	
a	b
0	a_1 b_1
1	a_2 b_2
2	a_3 b_3

df_ac	
a	c
0	a_1 c_1
1	a_2 c_2
2	a_4 c_4

a	b	c
0	a_1	b_1 c_1
1	a_2	b_2 c_2
2	a_4	NaN c_4

外部結合
(outer)

```
pd.merge(df_ab, df_ac, how='outer', on='a')
```

df_ab	
a	b
0	a_1 b_1
1	a_2 b_2
2	a_3 b_3

df_ac	
a	c
0	a_1 c_1
1	a_2 c_2
2	a_4 c_4

a	b	c
0	a_1	b_1 c_1
1	a_2	b_2 c_2
2	a_3	b_3 NaN
3	a_4	NaN c_4