

df Tidy data set

	*	
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		

1. Split

	*	
0		
1		

	*	
2		
3		
4		
5		

	*	
6		
7		
8		
9		

```
grouped = df.groupby(by=*)
```

```
g1 = grouped.get_group()
```

2. Apply

```
grouped.aggregate(np.mean).reset_index()
```

```
grouped.mean().reset_index()
```

```
g1.transform([np.sqrt, np.exp])
```

```
def f_exp(x):
    return np.exp(x)
def f_sqrt(x):
    return np.sqrt(x)
```

```
g1.transform([f_sqrt, f_exp])
```

	*	sqrt	exp
6			
7			
8			
9			

	*	mean
0		
1		
2		

```
grouped.filter(lambda x: len(x) > 3)
```

	*	
2		
3		
4		
5		
6		
7		
8		
9		

len() > 3

len() > 3

3. Combine

df1

	*	
0		
1		

```
pd.concat([df1, df2], axis=1)
```

	*		
0			
1			

df2

	*	
0		
1		

```
pd.concat([df1, df2])
```

df1

	*	
0		
1		

df2

	*	
0		

	*	
0		
1		
2		