

pandas	
conda install pandas	pandas
	conda
python3 -m pip install --upgrade pandas	PyPI
pip install -i https://pypi.tuna.tsinghua.edu.cn/simple pandas	gevent

df	Pandas DataFrame
s	Pandas Series

import pandas as pd	pandas	pd
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import numpy as np	numpy	np
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df[col]	Series
df[[col1, col2]]	DataFrame
s.iloc[0]	
s.loc['index_one']	
df.iloc[0,:]	
df.iloc[0,0]	

df.columns = ['a','b','c']	
pd.isnull()	DataFrame Boolean
pd.notnull()	DataFrame Boolean
df.dropna()	
df.dropna(axis=1)	
df.dropna(axis=1, threshold=n)	n
df.fillna(x)	x DataFrame
s.astype(float)	Series float
s.replace(1,'one')	'one' 1
s.replace([1,3],['one','three'])	'one' 1 'three' 3
df.rename(columns=lambda x: x + 1)	
df.rename(columns={'old_name': 'new_name'})	
df.set_index('column_one')	
df.rename(index=lambda x: x + 1)	

pd.read_csv(filename)	CSV	1
pd.read_table(filename)		2
pd.read_excel(filename)	Excel	3
pd.read_sql(query, connection_object)	SQL /	4
pd.read_json(json_string)	JSON	5
pd.read_html(url)	URL HTML tables	6
pd.read_clipboard()	read-table()	7
pd.DataFrame(dict)	Key-Value	8
		6 2
1 df.to_csv(filename)	CSV	
2 df.to_excel(filename)	Excel	
3 df.to_sql(table_name, connection_object)	SQL	



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(cont)

4 df.to_json(filename) Json

..

Filter Sort GroupBy

df[df[col] > 0.5] col 0.5

df.sort_values(col1) col1

df.sort_values(col2, ascending=False) col1

df.sort_values([col1,col2], ascending=[True,False]) col1 col2 c-

df.groupby(col) col G-
roupby

df.groupby([col1,col2]) Gro-
upby

df.groupby(col1)[col2] col1 -
col2

df.pivot_table(index=col1, values=[col2,col3], aggfunc=max) col1 col2 col3

df.groupby(col1).agg(np.mean) col1

Filter Sort GroupBy (cont)

data.apply(np.mean) DataFrame
np.mean

data.apply(np.max,axis=1) DataFrame
np.max

pd.DataFrame(np.random.rand(20,5)) 20 5
Data-
Frame

pd.Series(my_list) my_list
Series

df.index = pd.date_range('1900/1/30', periods=df.shape[0])

df.head(n) DataFrame
n

df.tail(n) DataFrame
n

df.shape()

[http://df.info\(\)](#)

df.describe()

s.value_counts(dropna=False) Series

df.apply(pd.Series.value_counts) DataFrame

df1.append(df2) df2 df1

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

df1.join(df2,on=col1,how='inner') df1 df2 SQL
join

df.describe()

df.mean()

df.corr()

df.count()

df.max()

df.min()

df.median()

df.std()



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