

Python Pandas Cheat Sheet

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STOPPED FILLING AT LECTURE 6 LINE

Basics	
%matplotlib inline	plots into notebook
<pre>df = pd.read_c- sv(path, index_col ='name')</pre>	loads dataframe
df.head()	
df.tail()	
df.values	
<pre>df.plot() df.plot(style='.')</pre>	
df.index	returns row indexes
df[col].loc[index]	returns value with given column and index
df.loc[:, 'col_n+1'] = X	referring to a col that doesn't exist creates a new one

Basic Dataframe Analysis

df.isnull()	returns bool
df[.isnull().sum	returns sum of trues
df.isnull().any	checks whether there is a true
<pre>df [col] .max() df [col] .min()</pre>	
df[col].idxmax()	
<pre>df [col] .idxmin()</pre>	
df[col].median()	
df[col].mean()	
<pre>df [col] .des- cribe()</pre>	gives statistic analysis
df [col] .qua- ntile(.5)	50% quantile
df.boxplot(by = 'col')	boxplot grouped by column
df.hist(bins = 20)	histogram in 20 bars

Basic Dataframe Analysis (cont)

df.plot.scat- ter(x = 'name', y = 'name')	scatterplot
pd.plotti- ng.scatte- r_matrix(df)	multiple scatterplots
pd.plotti- ng.parall- el_coordi- nates(df, 'name')	lines drawn connecting dimensions of an entry
df['col_n- ame'].u- nique	returns list of singled entries
pd.get_du- mmies(df, columns= ['Name'])	dummie column (0 or 1) that indicates whether the entry in another column is a certain entry
np.ran- dom.ch- oice(n, x, replace=f- alse)	selects random set
np.setdif- f1d(set_1, set_2)	New set with only the differing entries
df.to numpy()	gives array of entries

Working with a Dataframe

di[<i>COIT</i>] == X	bool if entry is x
df[df == x] = y	replace all values of a kind

Label-based indexing with .loc / .iloc

df.loc[3, <i>col1</i>] 3rd entry of 1st df.loc[3:6, [' <i>col1</i> ', column ' <i>col2</i> ']]	df.loc[rowindex, columnname]	
	df.loc[3, col1]	3rd entry of 1st
'col2']]	df.loc[3:6, ['col1',	column
	'col2']]	

Label-based indexing with .loc / .iloc (cont)

df.loc[:, 'col1']	column with t/f whethe
== 'name'	entry in col1 is name

df.iloc[3:-1, 2:]	[rows, columns]
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df.iloc[:,	[3, 1]]	columns with index 3 & 1

.loc is label based, .iloc is integer index based

Series	
s1 = pd.Series([1, 2, 3], index=['a', 'b', 'c'])	creates a pandas series
s1.add(s2, fill_value=0	0)
s.isnull(); s.notnull()	
s.dropna()	drops all rows with missing values
s.fillna(x)	
s = pd.DataFrame- ({'Size':s1, 'Weigh- t':s2})	Best way to define dataframe out of series: Give dict out of columns
'e' in s1	returns bool
s.name = 'str'	names series
s.index.name = 'str'	names index If s doesn't exist, this

s.columns['Red', 'Green'] s.columns.name = 'Color'

s.reindex[('m', 'n', ffill = forward fill 'o'], method = 'ffill')

creates a df



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