In [1]:	<pre>import numpy as np import pandas as pd import matplotlib.pyplot as plt %matplotlib inline</pre>
In [2]: In [3]:	<pre>df1 = pd.read_csv('06 df1.csv') df2 = pd.read_csv('06 df2.csv') df1["Unnamed: 0"] = pd.to_datetime(df1["Unnamed: 0"])</pre>
In [4]:	
Out[4]:	Unnamed: 0 2000-01-01
	2000-01-04 -1.738808 -0.072973 0.015085 2000-01-05 -0.905980 1.778576 0.381918 0.291436
	2002-09-22 1.013897 -0.288680 -0.342295 -0.638537 2002-09-23 -0.642659 -0.104725 -0.631829 -0.909483 2002-09-24 0.370136 0.233219 0.535897 -1.552605 2002-09-25 0.183339 1.285783 -1.052593 -2.565844 2002-09-26 0.775133 -0.850374 0.486728 -1.053427
In [5]:	2002-09-26 0.775133 -0.850374 0.486728 -1.053427 1000 rows × 4 columns df1.index
Out[5]:	DatetimeIndex(['2000-01-01', '2000-01-02', '2000-01-03', '2000-01-04',
In [6]:	'2002-09-25', '2002-09-26'], dtype='datetime64[ns]', name='Unnamed: 0', length=1000, freq=None) df2
Out[6]:	0 0.039762 0.218517 0.103423 0.957904 1 0.937288 0.041567 0.899125 0.977680 2 0.780504 0.008948 0.557808 0.797510
	3 0.672717 0.247870 0.264071 0.444358 4 0.053829 0.520124 0.552264 0.190008 5 0.286043 0.593465 0.907307 0.637898 6 0.430436 0.166230 0.469383 0.497701 7 0.313396 0.503833 0.806600 0.850510
	7 0.312296 0.502823 0.806609 0.850519 8 0.187765 0.997075 0.895955 0.530390 9 0.908162 0.232726 0.414138 0.432007
	Style Sheets Matplotlib has style sheets you can use to make your plots look a little nicer. These style sheets include plot_bmh,plot_fivethirtyeight,plot_ggplot and more. They basically create a set of style rules that your plots follow. I recommend using them, they make all your plots have the same look and feel more professional. You can even create your own if you want your company's plots to all have the same look (it is a bit tedious to create on though).
In [7]:	<pre>Here is how to use them. # Before plt.style.use() your plots look like this: df1['A'].hist()</pre>
Out[7]:	<pre><axessubplot:></axessubplot:></pre>
	150
In [8]:	" THE COLUMN TO SEY TO SHOULD BY APPLICATION OF THE CHIEF
Out[8]:	
	250 - 200 - 150 -
	100 - 50 - -4 -3 -2 -1 0 1 2 3
In [9]: Out[9]:	<pre>plt.style.use('dark_background') df1['A'].hist()</pre>
	250
	100
In [10]:	plt.style.use('fivethirtyeight') df1['A'].hist()
Out[10]:	
	200 150
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	Plot Types There are several plot types built-in to pandas, most of them statistical plots by nature:
	 df.plot.area df.plot.barh df.plot.density df.plot.hist df.plot.line
	 df.plot.scatter df.plot.bar df.plot.box df.plot.hexbin
	 df.plot.kde df.plot.pie You can also just call df.plot(kind='hist') or replace that kind argument with any of the key terms shown in the list above (e.g. 'box','barh', etc)
In [11]: Out[11]:	Area df2.plot.area(alpha=0.4) <axessubplot:></axessubplot:>
	2.5 - b c c c c c c c c c c c c c c c c c c
In [12]:	df2.plot(kind = "area", alpha=0.4)
Out[12]:	
In [13]:	Barplots df2
Out[13]:	0 0.039762 0.218517 0.103423 0.957904 1 0.937288 0.041567 0.899125 0.977680 2 0.780504 0.008948 0.557808 0.797510
	3 0.672717 0.247870 0.264071 0.444358 4 0.053829 0.520124 0.552264 0.190008 5 0.286043 0.593465 0.907307 0.637898 6 0.430436 0.166230 0.469383 0.497701
In [14]:	7 0.312296 0.502823 0.806609 0.850519 8 0.187765 0.997075 0.895955 0.530390 9 0.908162 0.232726 0.414138 0.432007
out[14]:	<pre>df2.plot.bar() </pre>
In [15]: Out[15]:	
In [16]:	Histograms df1['A'].plot.hist(bins=50)
Out[16]:	
	50 40 40 30 a day
In [17]:	Scatter Plots df1.plot.scatter(x='A', y='B')
Out[17]:	<pre><axessubplot:xlabel='a', ylabel="B"></axessubplot:xlabel='a',></pre>
	-3 -4 -3 -2 -1 0 1 2 3 A
In [18]: Out[18]:	<pre>df1.plot.scatter(x='A', y='B', c='C', cmap='coolwarm') <axessubplot:xlabel='a', ylabel="B"></axessubplot:xlabel='a',></pre>
	$egin{array}{cccccccccccccccccccccccccccccccccccc$
In [19]:	# Or use s to indicate size based off another column. s parameter needs to be an array, not just the name of a column: df1.plot.scatter(x='A',y='B',s=df1['C']*200)
Out[19]:	C:\Users\Yasin\anaconda3\lib\site-packages\matplotlib\collections.py:922: RuntimeWarning: invalid value encountered in sqrt scale = np.sqrt(selfsizes) * dpi / 72.0 * selffactor <axessubplot:xlabel='a', ylabel="B"></axessubplot:xlabel='a',>
In [20]:	BoxPlots df2.plot.box() # Can also pass a by= argument for groupby
In [20]: Out[20]:	<pre>df2.plot.box() # Can also pass a by= argument for groupby <axessubplot:></axessubplot:></pre>
	0.6
	0.2 0.0 a b c d
	$a_1 = ba_1ba_2a_1 + a_1a_2(1b_1) +$
In [21]: Out[21]:	df.plot.hexbin(x='a',y='b',gridsize=25,cmap='Oranges')
	2 12 1 - 1 8 2 0 6
	Kernel Density Estimation plot (KDE)
In [22]: Out[22]:	<pre>df2['a'].plot.kde() </pre> <pre><axessubplot:ylabel='density'></axessubplot:ylabel='density'></pre>
	0.8
In [23]: Out[23]:	df2.plot.density() # the mean of all these distribution is KDE <axessubplot:ylabel='density'></axessubplot:ylabel='density'>
-1,	1.2 1.0 2 0.8
	0.6 0.4 0.2
In []:	0.0