## **Pandas Visualization**

```
In [1]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```

Matplotlib is building the font cache; this may take a moment.

## Out[4]:

## Flavor Rating Texture Rating Overall Rating

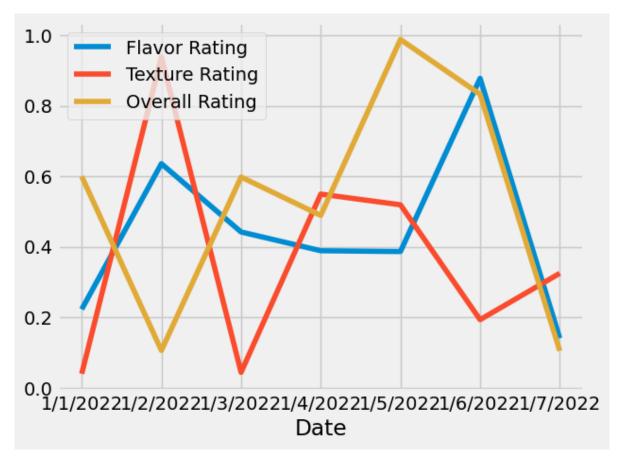
Date			
1/1/2022	0.223090	0.040220	0.600129
1/2/2022	0.635886	0.938476	0.106264
1/3/2022	0.442323	0.044154	0.598112
1/4/2022	0.389128	0.549676	0.489353
1/5/2022	0.386887	0.519439	0.988280
1/6/2022	0.877984	0.193588	0.832827
1/7/2022	0.140995	0.325110	0.105147

```
In [30]: print(plt.style.available)
   plt.style.use('fivethirtyeight')
```

['Solarize\_Light2', '\_classic\_test\_patch', '\_mpl-gallery', '\_mpl-gallery-nogrid', 'bm h', 'classic', 'dark\_background', 'fast', 'fivethirtyeight', 'ggplot', 'grayscale', 'seaborn-v0\_8', 'seaborn-v0\_8-bright', 'seaborn-v0\_8-colorblind', 'seaborn-v0\_8-dark', 'seaborn-v0\_8-dark-palette', 'seaborn-v0\_8-darkgrid', 'seaborn-v0\_8-deep', 'seaborn-v0\_8-muted', 'seaborn-v0\_8-notebook', 'seaborn-v0\_8-paper', 'seaborn-v0\_8-pastel', 'seaborn-v0\_8-poster', 'seaborn-v0\_8-talk', 'seaborn-v0\_8-ticks', 'seaborn-v0\_8-white', 'seaborn-v0\_8-whitegrid', 'tableau-colorblind10']

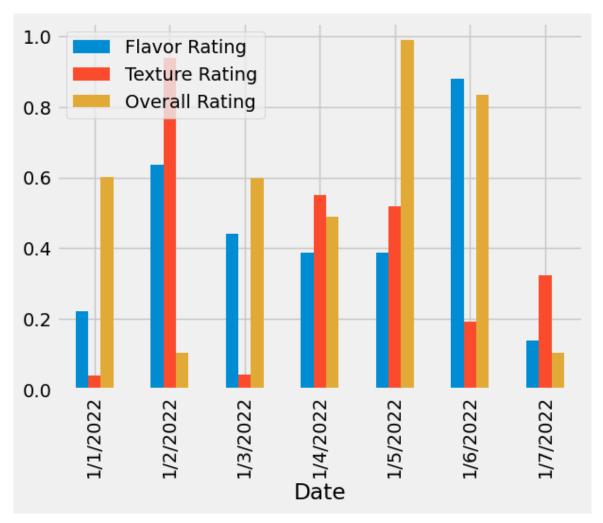
In [31]: df.plot()

Out[31]: <Axes: xlabel='Date'>

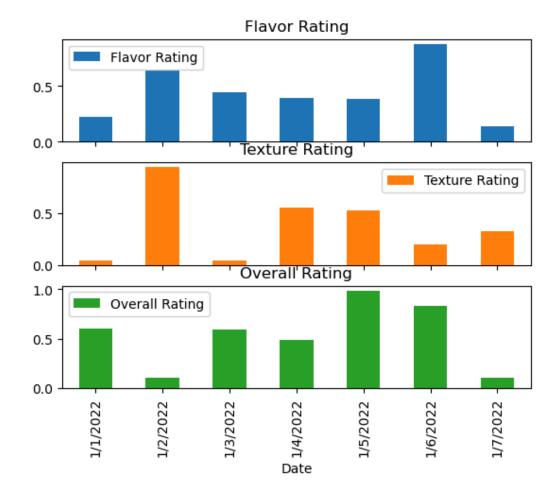


In [29]: df.plot(kind = 'bar')

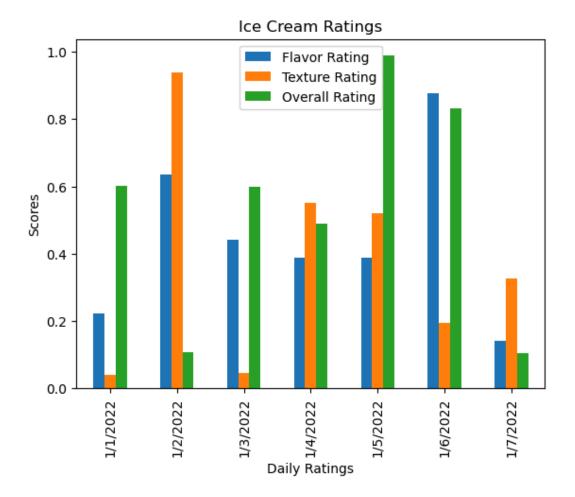
Out[29]: <Axes: xlabel='Date'>



```
In [9]: df.plot(kind = 'bar', subplots=True)
Out[9]: array([<Axes: title={'center': 'Flavor Rating'}, xlabel='Date'>,
```

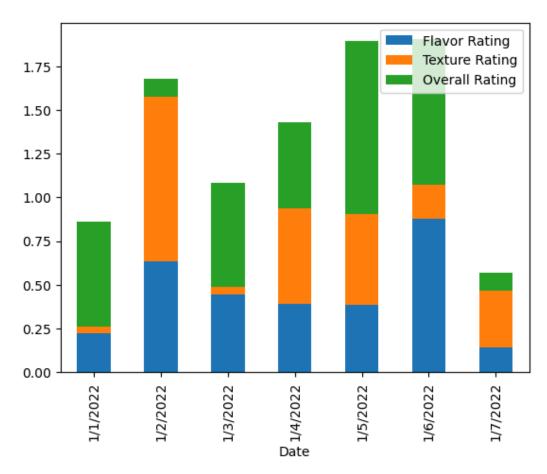


```
In [11]: df.plot(kind = 'bar', title='Ice Cream Ratings',xlabel='Daily Ratings',ylabel='Scores'
Out[11]: <Axes: title={'center': 'Ice Cream Ratings'}, xlabel='Daily Ratings', ylabel='Score
    s'>
```

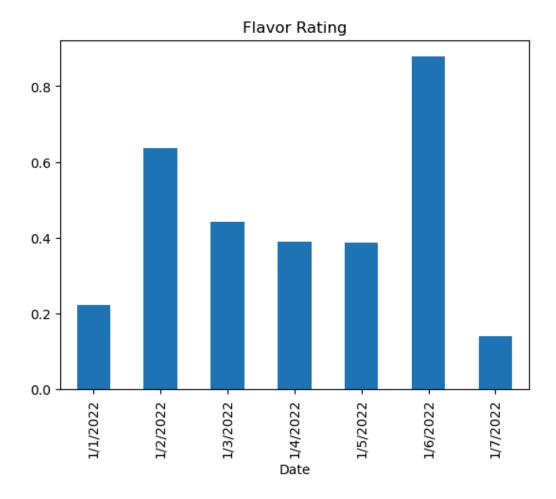


In [12]: df.plot(kind = 'bar', stacked=True)

Out[12]: <Axes: xlabel='Date'>

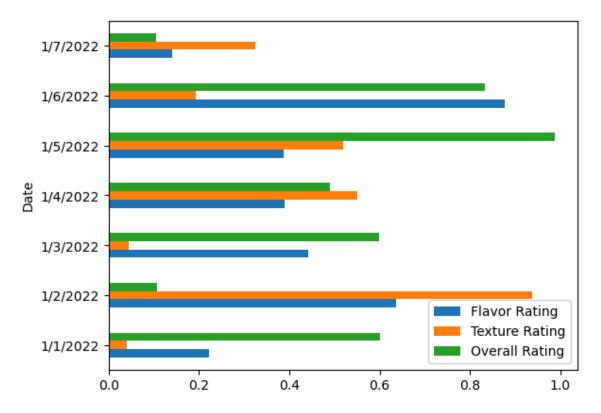


```
In [13]: df['Flavor Rating'].plot(kind = 'bar', subplots=True)
```



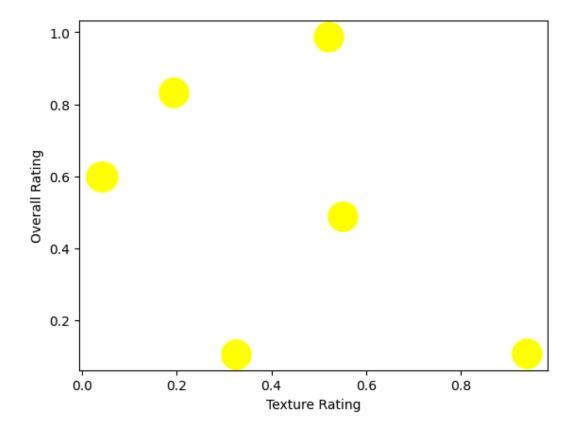
In [15]: df.plot.barh()

Out[15]: <Axes: ylabel='Date'>



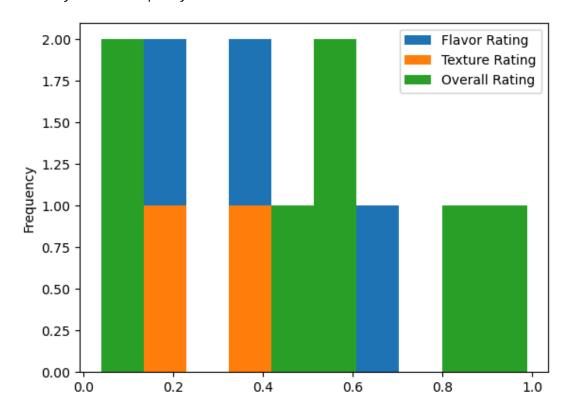
In [16]: df.plot.scatter(x='Texture Rating',y='Overall Rating',s=500,c='Yellow')

Out[16]: <Axes: xlabel='Texture Rating', ylabel='Overall Rating'>



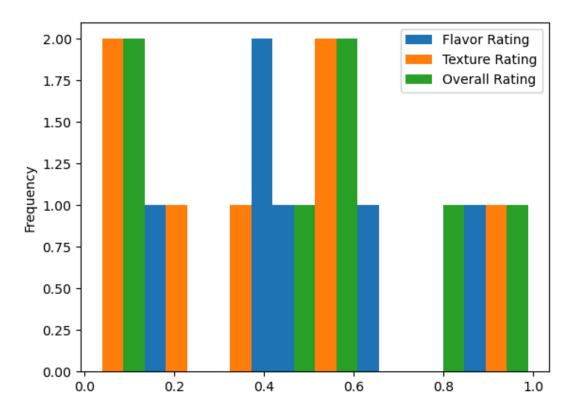
In [19]: df.plot.hist()

Out[19]: <Axes: ylabel='Frequency'>



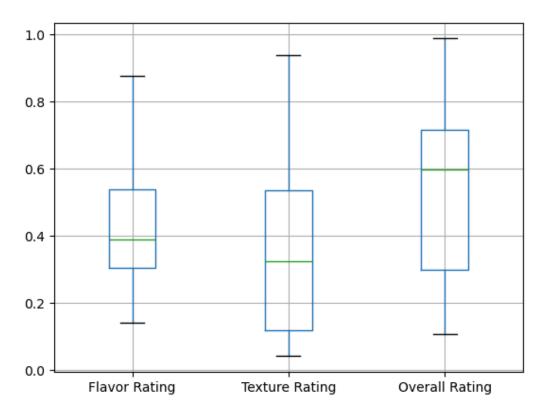
In [20]: df.plot.hist(bins=20)

Out[20]: <Axes: ylabel='Frequency'>



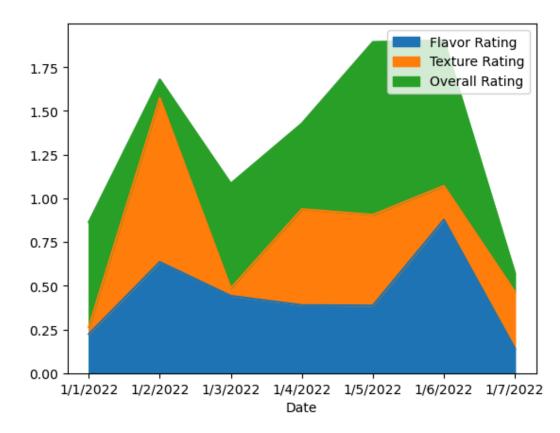
In [21]: df.boxplot()

Out[21]: <Axes: >



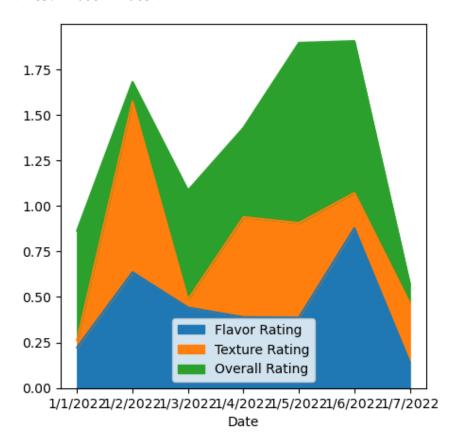
In [22]: df.plot.area()

Out[22]: <Axes: xlabel='Date'>



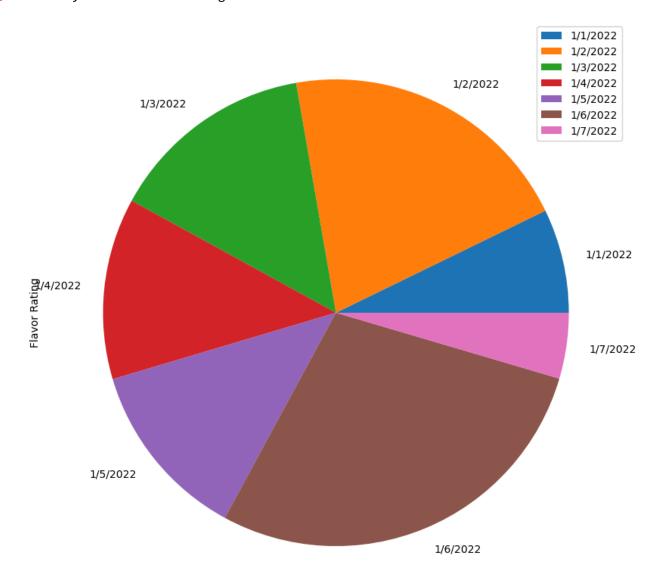
In [24]: df.plot.area(figsize=(5,5))

Out[24]: <Axes: xlabel='Date'>



In [26]: df.plot.pie(y='Flavor Rating',figsize=(10,10))

Out[26]: <Axes: ylabel='Flavor Rating'>



In [ ]: