

Basic Visualization Tools

TOTAL POINTS 5

1. Area plots are stacked by default.

- ☒ True
- ☐ False

2. Which of the following codes uses the artist layer to create a stacked area plot of the data in the *pandas* dataframe, **area_df**?

☐

```
1 ax = area_df.plot(type='area', figsize=(20, 10))
2
3 ax.set_title('Plot Title')
4 ax.set_ylabel('Vertical Axis Label')
5 ax.set_xlabel('Horizontal Axis Label')
```

☐

```
1 import matplotlib.pyplot as plt
2
3 area_df.plot(kind='area', figsize=(20, 10))
4
5 plt.title('Plot Title')
6 plt.ylabel('Vertical Axis Label')
7 plt.xlabel('Horizontal Axis Label')
8
9 plt.show()
```

☒

```
1 ax = area_df.plot(kind='area', figsize=(20, 10))
2
3 ax.set_title('Plot Title')
4 ax.set_ylabel('Vertical Axis Label')
5 ax.set_xlabel('Horizontal Axis Label')
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☐

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1 import matplotlib.pyplot as plt
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7 plt.set_xlabel('Horizontal Axis Label')
8
9 plt.show()
```



```
1 ax = area_df.plot(kind='area', figsize=(20, 10))
2
3 ax.title('Plot Title')
4 ax.ylabel('Vertical Axis Label')
5 ax.xlabel('Horizontal Axis Label')
```

3. Which of the following codes will create an unstacked area plot of the data in the *pandas* dataframe, **area_df**, with a transparency value of 0.35?



```
1 transparency = 0.35
2 ax = area_df.plot(kind='area', alpha=transparency, stacked=False, figsize=(20,
3 10))
4 ax.title('Plot Title')
5 ax.ylabel('Vertical Axis Label')
6 ax.xlabel('Horizontal Axis Label')
```



```
1 transparency = 0.35
2 ax = area_df.plot(type='area_plot', alpha=transparency, stacked=False, figsize
3 =(20, 10))
4 ax.title('Plot Title')
5 ax.ylabel('Vertical Axis Label')
6 ax.xlabel('Horizontal Axis Label')
```



```
1 import matplotlib.pyplot as plt
2
3 transparency = 1 - 0.35
4 area_df.plot(kind='area', alpha=transparency, stacked=False, figsize=(20, 10))
5
6 plt.title('Plot Title')
7 plt.ylabel('Vertical Axis Label')
8 plt.xlabel('Horizontal Axis Label')
9
10 plt.show()
```

☐

```
1 import matplotlib.pyplot as plt
2
3 area_df.plot(kind='area', stacked=False, figsize=(20, 10))
4
5 plt.title('Plot Title')
6 plt.ylabel('Vertical Axis Label')
7 plt.xlabel('Horizontal Axis Label')
8
9 plt.show()
```

☒

```
1 transparency = 0.35
2 ax = area_df.plot(kind='area', alpha=transparency, stacked=False, figsize=(20,
3 10))
4 ax.set_title('Plot Title')
5 ax.set_ylabel('Vertical Axis Label')
6 ax.set_xlabel('Horizontal Axis Label')
```

4. The following code will create a histogram of a *pandas* series, **series_data**, and align the bin edges with the horizontal tick marks.

```
1 count, bin_edges = np.histogram(series_data)
2 series_data.plot(kind='hist', xticks = bin_edges)
```

- ☒ True.
- ☐ False.

5. The following code will create a horizontal bar chart of the data in a *pandas* dataframe, **question**.

```
1 question.plot(kind='barh')
```

- ☒ True.
- ☐ False.