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Introduction to Data Visualization Tools

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1. Matplotlib was created by

1 / 1 point

- ☐ Daniel Johnson, a German physicist.
- ☐ Cleve Moler, an American mathematician and computer programmer.
- ☒ John Hunter, an American neurobiologist.
- ☐ John Butler, an American psychologist.
- ☐ James Gosling, a Canadian computer scientist.

✔ **Correct**
Correct.

2. Using the notebook backend, you can modify a figure after it is rendered.

1 / 1 point

- ☒ True.
- ☐ False.

✔ **Correct**
Correct. You can modify a figure after it is rendered using the notebook backend.

3. `%matplotlib inline` is an example of Matplotlib magic functions.

0 / 1 point

- ☐ True.
- ☒ False.

✘ **Incorrect**
Incorrect. `%matplotlib inline` is an example of Matplotlib magic functions.

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Basic Visualization Tools

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1. Area plots are stacked by default.

1 / 1 point

☒ True

☐ False

✔ Correct
Correct.

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

0 / 1 point

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

☒ True.

☐ False.

✘ Incorrect
Incorrect. The parameter xticks should be equal to bin_edges only.

3. Given a *pandas* dataframe, **question**, which of the following will create a horizontal bar chart of the data in **question**?

1 / 1 point

☐ `1 question.plot(type='bar', rot=90)`

☐ `1 question.plot(kind='bar', orientation='horizontal')`

☒ `1 question.plot(kind='barh')`



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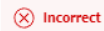
2. The following code will create a histogram of a *pandas* series, **series_data**, and align the bin edges with the horizontal tick marks.

0 / 1 point

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

☒ True.

☐ False.



Incorrect

Incorrect. The parameter xticks should be equal to bin_edges only.

3. Given a *pandas* dataframe, **question**, which of the following will create a horizontal bar chart of the data in **question**?

1 / 1 point

☐ 1 question.plot(type='bar', rot=90)

☐ 1 question.plot(kind='bar', orientation='horizontal')

☒ 1 question.plot(kind='barh')

☐ 1 question.plot(kind='bar')

☐ 1 question.plot(kind='bar', type='horizontal')



Correct

Correct.

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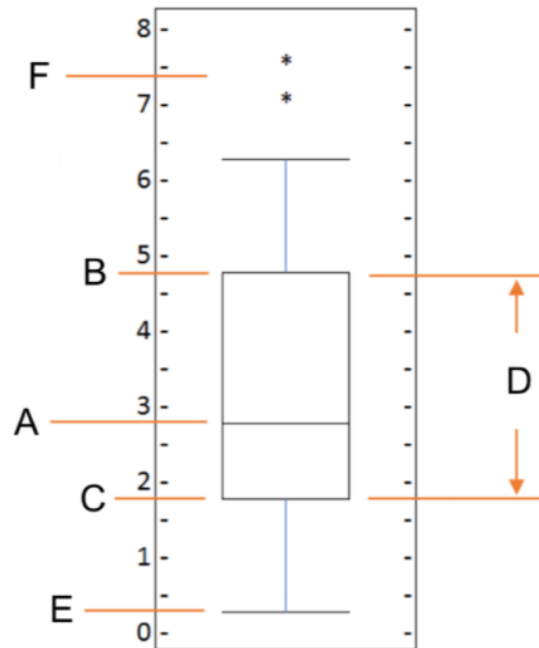
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Specialized Visualization Tools

Latest Submission Grade 100%

1.

1 / 1 point



What do the letters in the box plot above represent?

- ☐ A = Mean, B = Third Quartile, C = First Quartile, D = Inter Quartile Range, E = Minimum, and F = Maximum
- ☒ A = Median, B = Third Quartile, C = First Quartile, D = Inter Quartile Range, E = Minimum, and F = Outliers
- ☐ A = Median, B = Third Quartile, C = Mean, D = Inter Quartile Range, E = Lower Quartile, and F = Outliers
- ☐ A = Mean, B = Upper Mean Quartile, C = Lower Mean Quartile, D = Inter Quartile Range, E = Minimum, and F = Outliers
- ☐ A = Mean, B = Third Quartile, C = First Quartile, D = Inter Quartile Range, E = Minimum, and F = Outliers



What do the letters in the box plot above represent?

- ☐ A = Mean, B = Third Quartile, C = First Quartile, D = Inter Quartile Range, E = Minimum, and F = Maximum
- ☒ A = Median, B = Third Quartile, C = First Quartile, D = Inter Quartile Range, E = Minimum, and F = Outliers
- ☐ A = Median, B = Third Quartile, C = Mean, D = Inter Quartile Range, E = Lower Quartile, and F = Outliers
- ☐ A = Mean, B = Upper Mean Quartile, C = Lower Mean Quartile, D = Inter Quartile Range, E = Minimum, and F = Outliers
- ☐ A = Mean, B = Third Quartile, C = First Quartile, D = Inter Quartile Range, E = Minimum, and F = Outliers

✓ **Correct**
Correct.

2. What is the correct combination of function and parameter to create a box plot in Matplotlib?

1 / 1 point

- ☐ Function = boxplot, and Parameter = type with value = "plot"
- ☐ Function = box, and Parameter = type with value = "plot"
- ☒ Function = plot, and Parameter = kind with value = "box"
- ☐ Function = plot, and Parameter = kind with value = "boxplot"
- ☐ Function = plot, and Parameter = type with value = "box"

✓ **Correct**
Correct.

3. Which of the lines of code below will create the following scatter plot, given the *pandas* dataframe, *df_total*?

1 / 1 point

df_total	
year	total
1980	99137
1981	110563
1982	104271
1983	75550
1984	73417



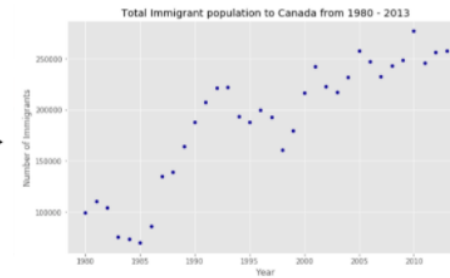
3. Which of the lines of code below will create the following scatter plot, given the *pandas* dataframe, *df_total*?

1/1 point

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df_total

year	total
1980	99137
1981	110563
1982	104271
1983	75550
1984	73417
.	.
2013	258654



☐ 1 import matplotlib.pyplot as plt
2
3 df_total.plot(type='scatter', x='year', y='total')
4
5 plt.title('Total Immigrant population to Canada from 1980 - 2013')
6 plt.label ('Year')
7 plt.label('Number of Immigrants')

☐ 1 import matplotlib.scripting.pyplot as plt
2
3 df_total.plot(type='scatter', y='year', x='total')
4
5 plt.title('Total Immigrant population to Canada from 1980 - 2013')
6 plt.xlabel ('Year')
7 plt.ylabel('Number of Immigrants')

☒ 1 import matplotlib.pyplot as plt
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6 plt.xlabel ('Year')
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☐ 1 import matplotlib.pyplot as plt
2
3 plot(kind='scatter', x='year', y='total', data=df_total)
4
5 plt.title('Total Immigrant population to Canada from 1980 - 2013')
6 plt.label ('Year')
7 plt.label('Number of Immigrants')

☐ 1 import matplotlib.scripting.pyplot as plt
2
3 df_total.plot(kind='scatter', x='year', y='total')