

## ✓ Seaborn - Exercise

```
import pandas as pd
import seaborn as sns
```

```
from google.colab import drive
import os
```

```
drive.mount('/content/drive')
os.chdir('/content/drive/MyDrive/')
for item in os.listdir():
    print(item)
print("-----")
os.chdir('/content/drive/MyDrive/cloud/GitHub/AdvDataViz/Notebooks/')
for item in os.listdir():
    print(item)
print("-----")
notebooks = "/content/drive/MyDrive/cloud/GitHub/AdvDataViz/Notebooks"
print(os.listdir(notebooks))
print("-----")
```

```
file = "employee_attrition_.csv"
file_path = os.path.join(notebooks, file)
with open(file_path, "r") as f:
    contents = f.read()
```



Mounted at /content/drive  
 learningStore  
 healthyCar  
 startup  
 cloud  
 Artificial Intelligence

```
-----
03 Matplotlib - Exercise.ipynb
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01 Python_Pandas.ipynb
04 Continuous Variables - Histogram .ipynb
05 Continuous Variables - Histogram - Exercise .ipynb
07 Continuous Variables - Boxplot - Exercise .ipynb
03 Matplotlib - Exercise Solutions.ipynb
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08 Continuous Variables - Scatterplot.ipynb
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10 Categorical Variables - Bar_Pie.ipynb
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Top 50 US Tech Companies.csv
13 Seaborn - Exercise Solution.ipynb
15 Custom Modules.ipynb
14 Functions.ipynb
churn.csv
student_performance.csv
matplotlib.py
```

employee\_attrition\_.csv  
heart-disease.csv

-----  
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## ✓ Dataset: Employee Attrition

```
#df = pd.read_csv("employee_attrition_.csv")
df = pd.read_csv(file_path)
```

```
df = df.drop("EmployeeNumber", axis=1)
df = df.dropna()
df.head()
```

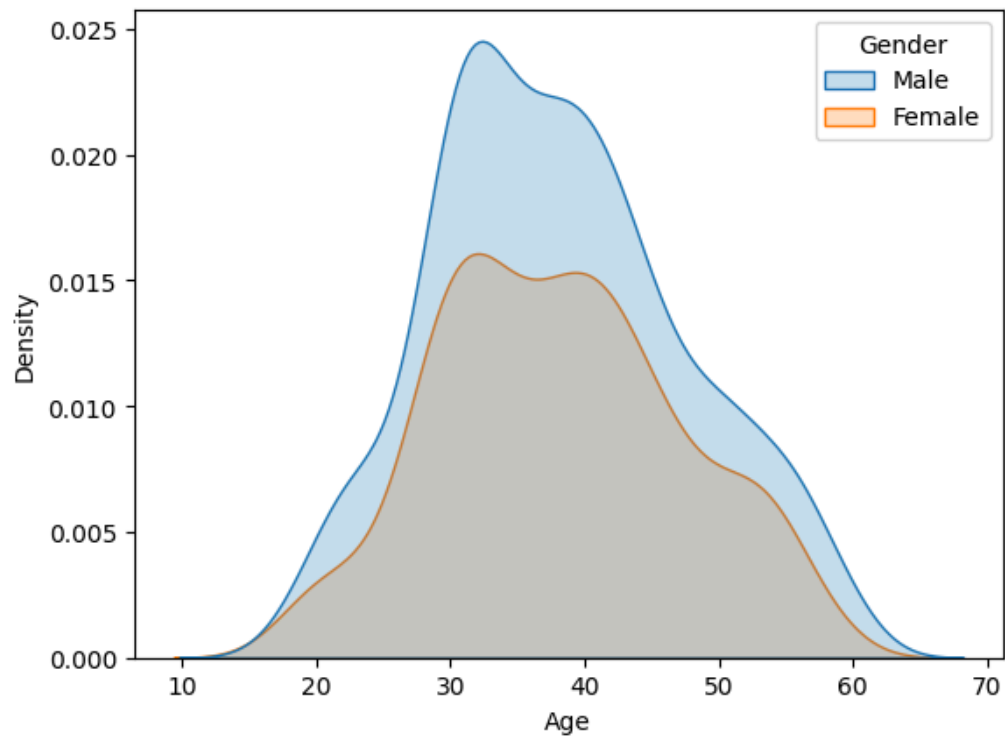
	Gender	Age	Education	Department	JobRole	JobSatisfaction	DistanceFromHome	Monthly
0	Male	50.0	2	Research & Development	Research Director	4	1.0	
1	Male	36.0	2	Research & Development	Manufacturing Director	2	6.0	
2	Male	21.0	1	Sales	Sales Representative	2	7.0	
4	Male	52.0	4	Research & Development	Healthcare Representative	2	7.0	
5	Male	33.0	1	Research & Development	Manager	3	15.0	

Next steps:

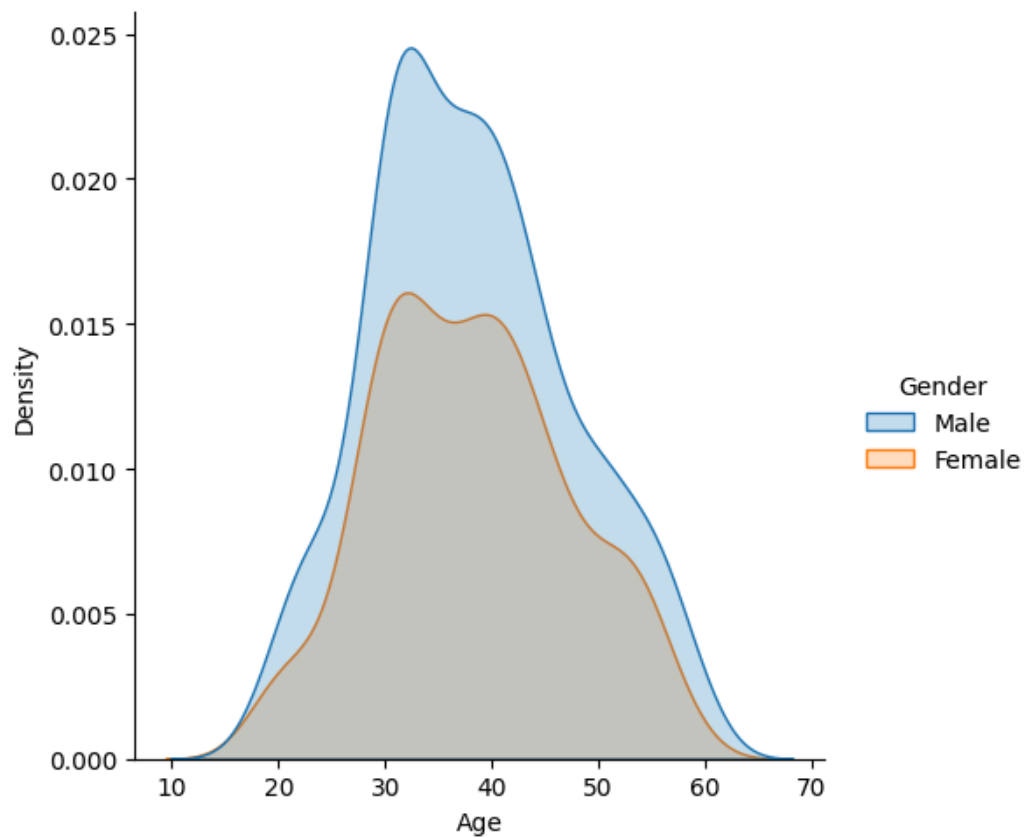
[Generate code with df](#)
[View recommended plots](#)
[New interactive sheet](#)

## ✓ 1.) Create a filled density plot (kdeplot) of "Age". Set the hue to "Gender".

```
#sns.kdeplot(data=df);
sns.kdeplot(data=df, x="Age", hue="Gender", fill=True);
```



```
sns.displot(data=df, x="Age", kind="kde", hue="Gender", fill=True);
```



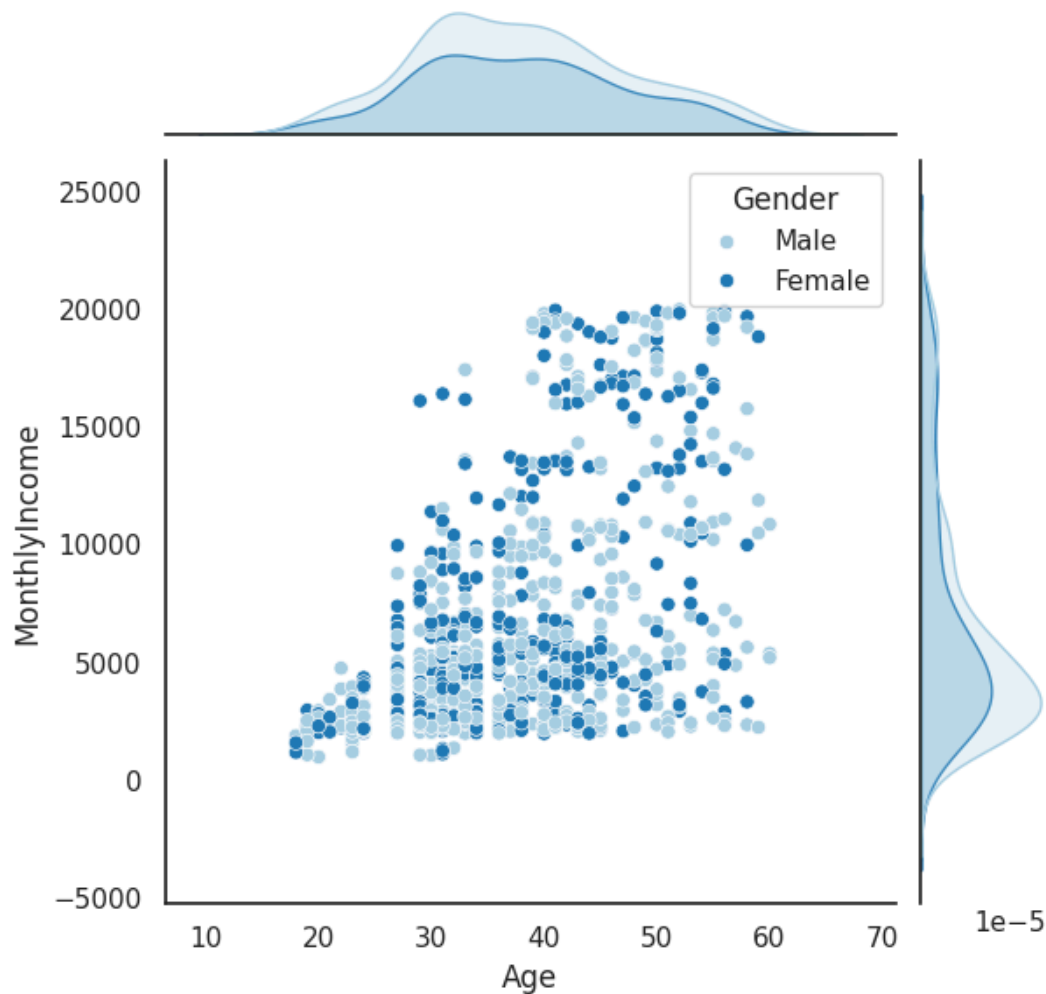
## ✓ 2.) Set Seaborn's theme style to "white" and the palette to "Paired".

Now, create a jointplot of "Age" and "MonthlyIncome". Set hue to "Gender".

```
#sns.jointplot(data=df);

sns.set_theme(style="white", palette="Paired")

sns.jointplot(data=df, x="Age", y="MonthlyIncome", hue="Gender");
```



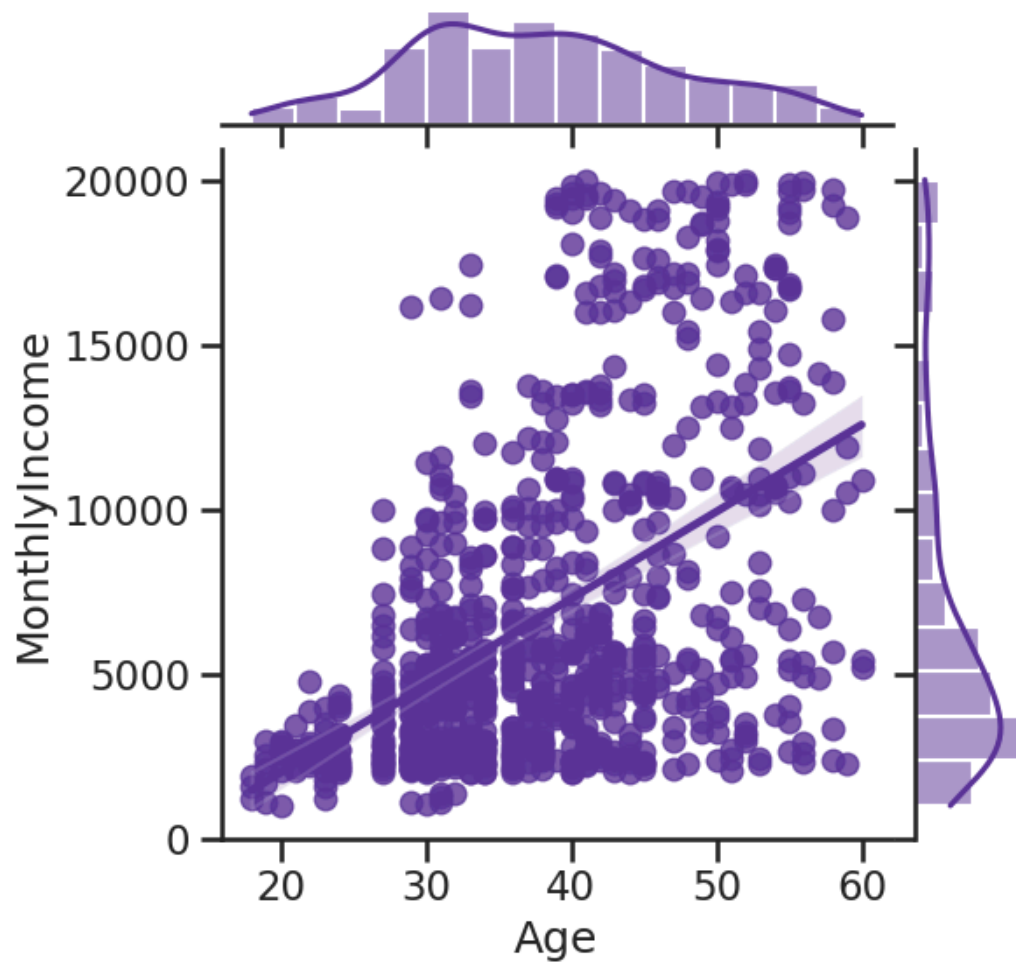
## ✓ 3.) Set Seaborn's theme context to "talk", style to "ticks", and the palette to "twilight\_shifted".

Now, create a joint plot of "Age" and "MonthlyIncome". Set kind to "reg".

```
#sns.jointplot(data=df);

sns.set_theme(context="talk", style="ticks", palette="twilight_shifted")

sns.jointplot(data=df, x="Age", y="MonthlyIncome", kind="reg");
```

[+ Code](#)[+ Text](#)