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Comparison Plots with pairplot() and jointplot()

Imports

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

The Data

```
In [2]: df = pd.read_csv("StudentsPerformance.csv")
```

```
In [3]: df.head()
```

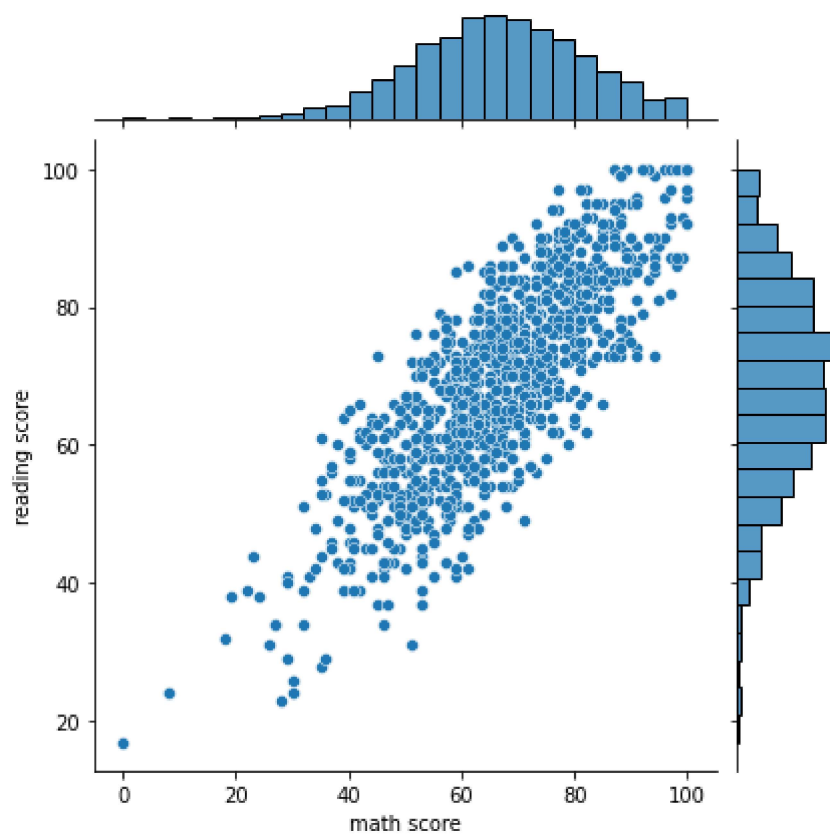
```
Out[3]:
```

	gender	race/ethnicity	parental level of education	lunch	test preparation course	math score	reading score	writing score
0	female	group B	bachelor's degree	standard	none	72	72	74
1	female	group C	some college	standard	completed	69	90	88
2	female	group B	master's degree	standard	none	90	95	93
3	male	group A	associate's degree	free/reduced	none	47	57	44
4	male	group C	some college	standard	none	76	78	75

jointplot

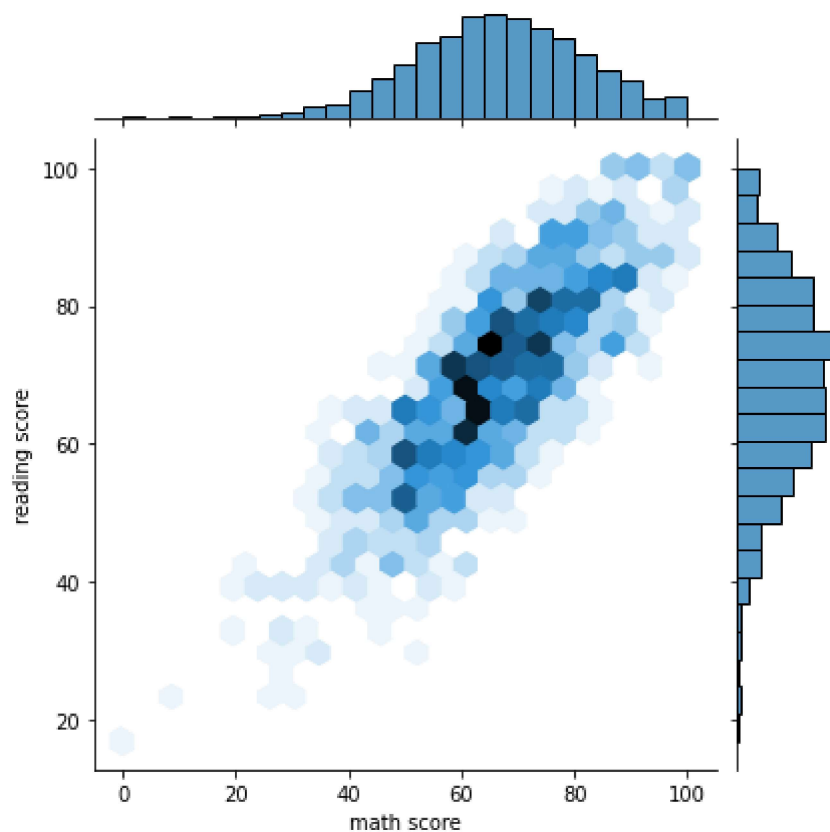
```
In [4]: sns.jointplot(x='math score',y='reading score',data=df)
```

```
Out[4]: <seaborn.axisgrid.JointGrid at 0x23f9ed8dd08>
```



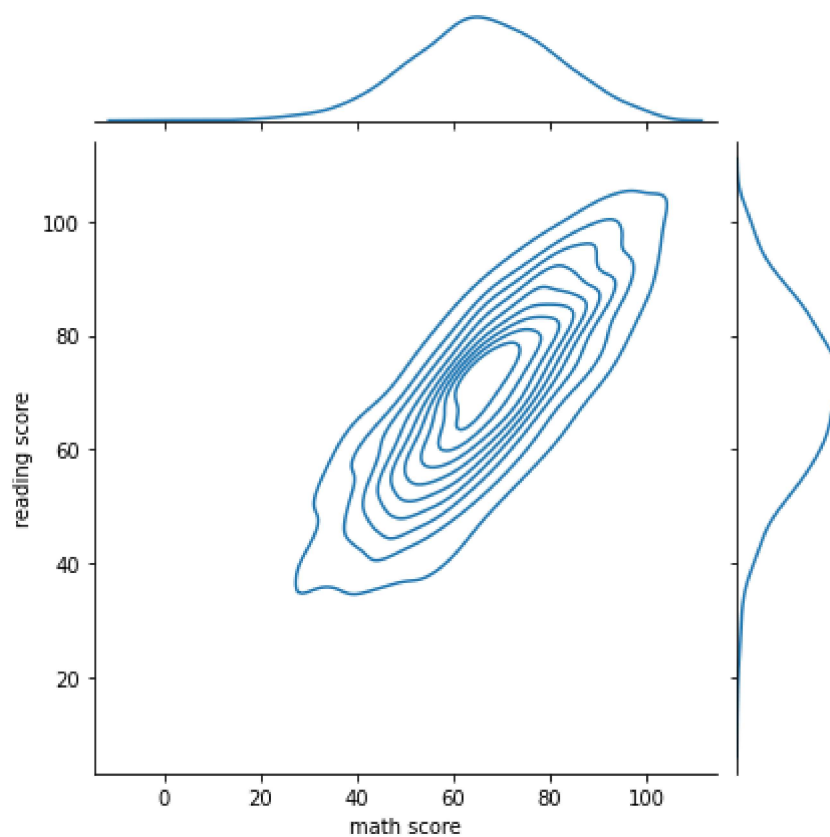
```
In [5]: sns.jointplot(x='math score',y='reading score',data=df,kind='hex')
```

```
Out[5]: <seaborn.axisgrid.JointGrid at 0x23fa1027308>
```



```
In [6]: sns.jointplot(x='math score',y='reading score',data=df,kind='kde')
```

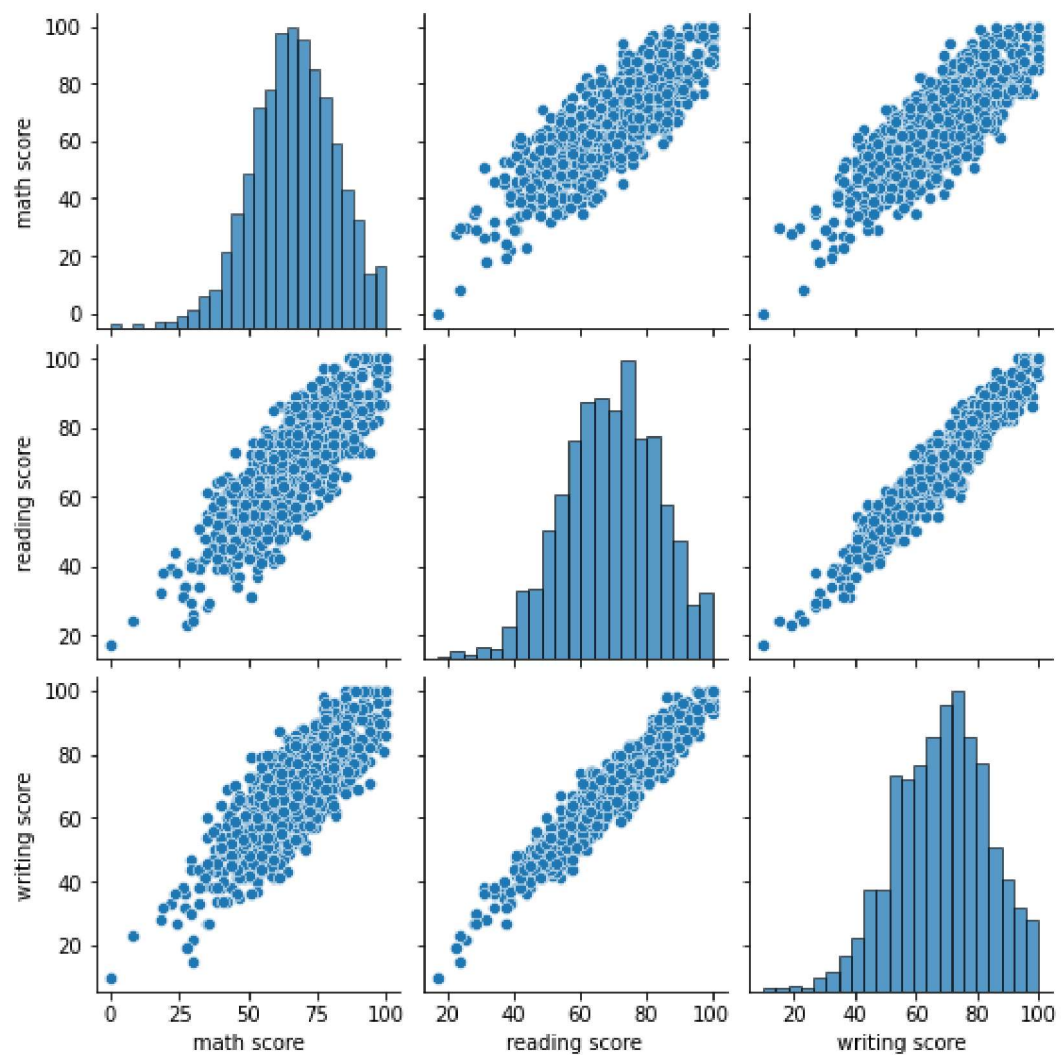
```
Out[6]: <seaborn.axisgrid.JointGrid at 0x23fa11d4108>
```



pairplot

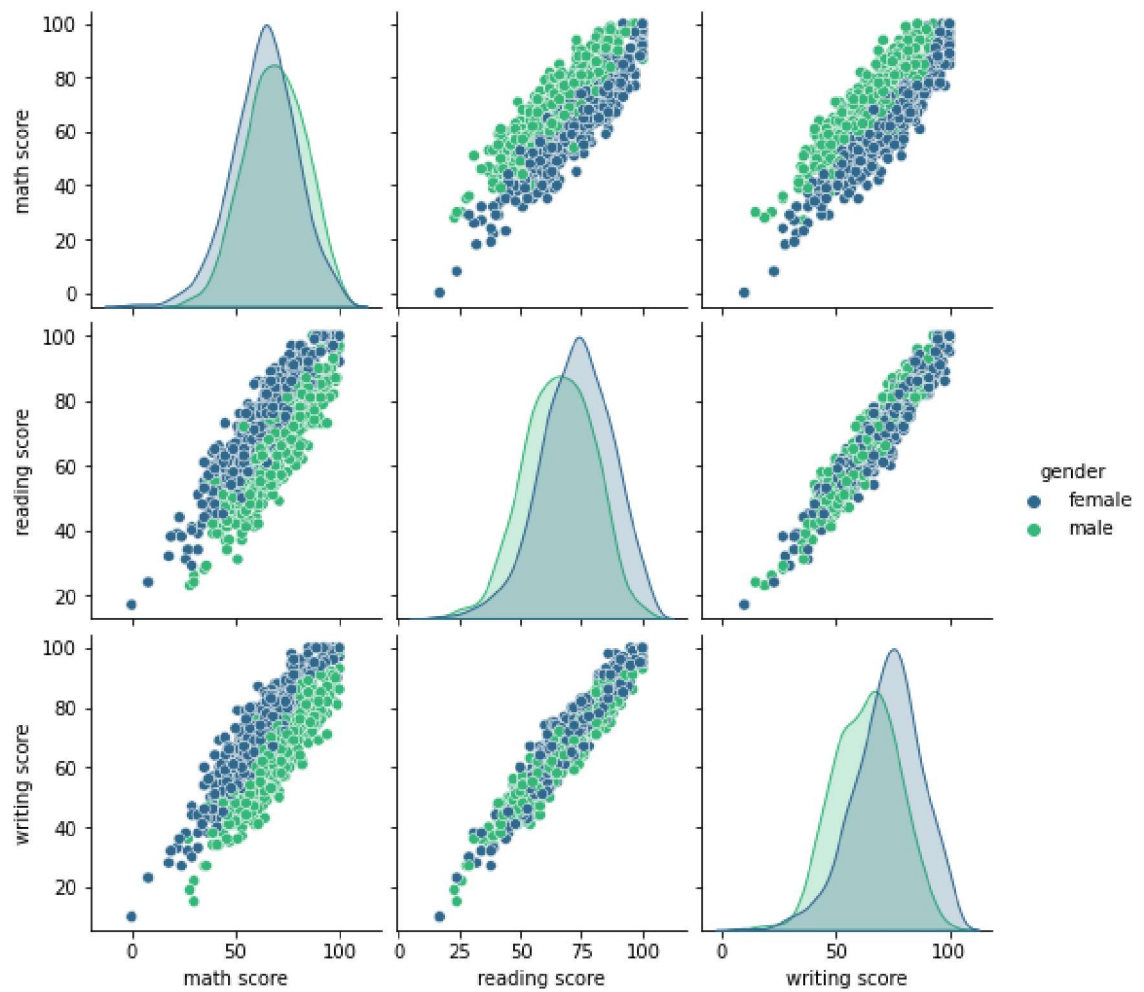
```
In [7]: sns.pairplot(df)
```

```
Out[7]: <seaborn.axisgrid.PairGrid at 0x23fa12eb608>
```



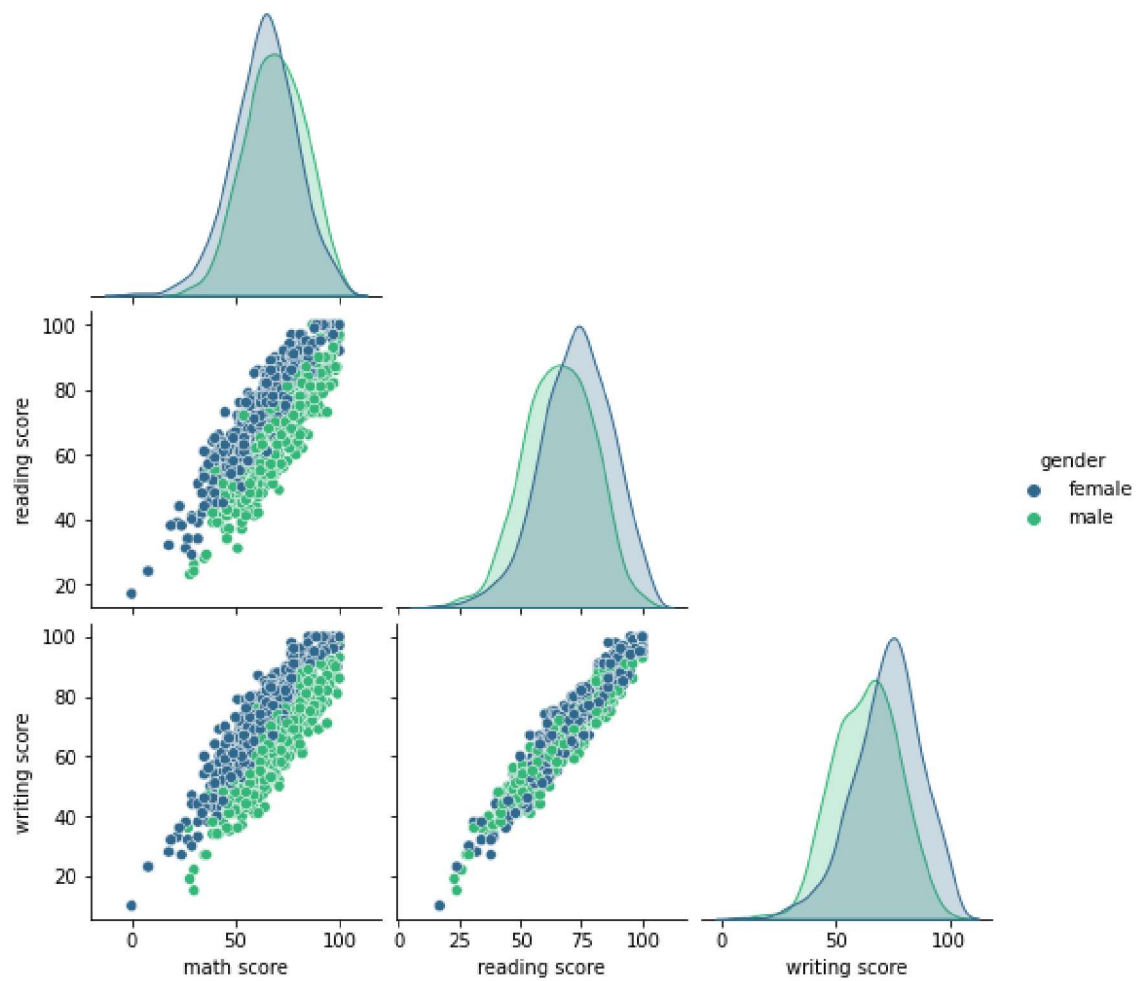
```
In [8]: sns.pairplot(df,hue='gender',palette='viridis')
```

```
Out[8]: <seaborn.axisgrid.PairGrid at 0x23fa18c8908>
```



```
In [9]: sns.pairplot(df,hue='gender',palette='viridis',corner=True)
```

```
Out[9]: <seaborn.axisgrid.PairGrid at 0x23fa1e07948>
```



```
In [10]: sns.pairplot(df,hue='gender',palette='viridis',diag_kind='hist')
```

```
Out[10]: <seaborn.axisgrid.PairGrid at 0x23fa190ef88>
```

