Libraries in python

seaborn library

-> used for visualization / ploting and styling

-> it is built over matplotlib library

-> to use seaborn we have to use matplotlib also

-> there are some datasets present in the seaborn library

importing seaborn,matplotlib and other libraries

In [1]:

```python
#if seaborn is not installed try this in the cell(!pip install seaborn)
import seaborn as sns
from matplotlib import pyplot as plt
# or we can write
# import matplotlib.pyplot as plt
# importing another required libraries
import numpy as np
import pandas as pd
```

In [10]:

```python
# importing datasets from seaborn
# note: you must be connected to internet
fmri=sns.load_dataset("fmri")
fmri.head()
```
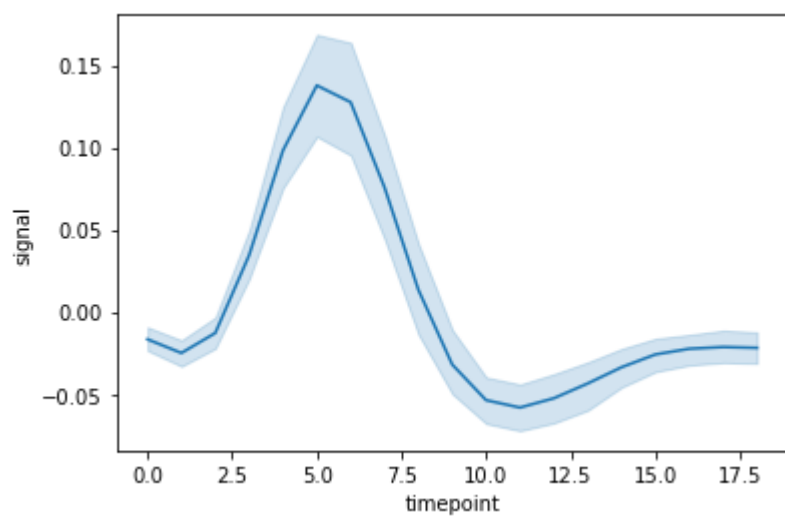
Out[10]:

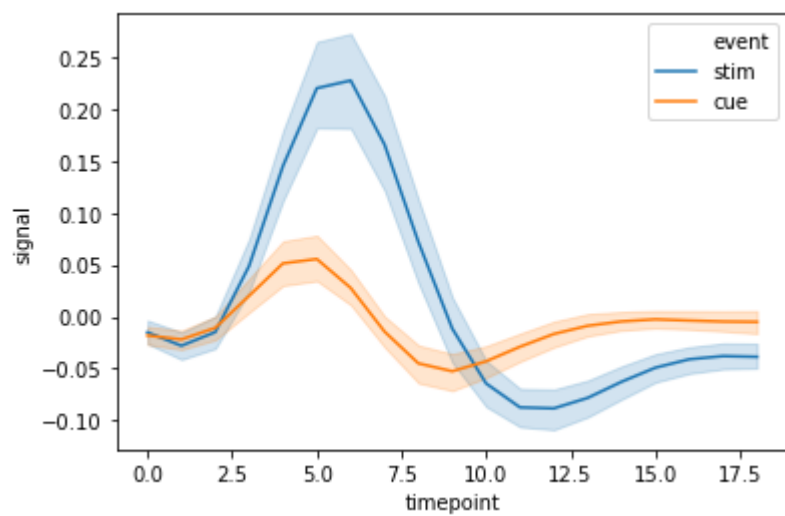|	subject	timepoint	event	region	signal
0	s13	18	stim	parietal	-0.017552
1	s5	14	stim	parietal	-0.080883
2	s12	18	stim	parietal	-0.081033
3	s11	18	stim	parietal	-0.046134
4	s10	18	stim	parietal	-0.037970

lineplot

```python
sns.lineplot(x="timepoint",y="signal",data=fmri)
plt.show()
```

```python
# grouping data with hue
sns.lineplot(x="timepoint",y="signal",data=fmri,hue="event")
plt.show()
```
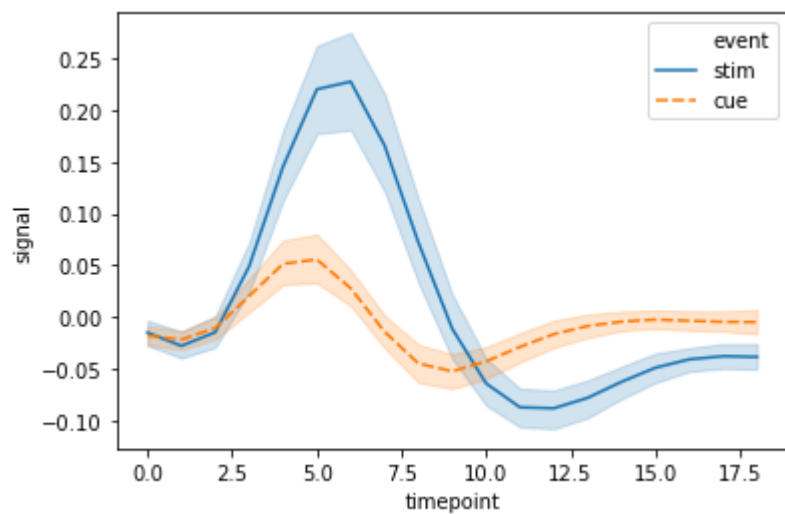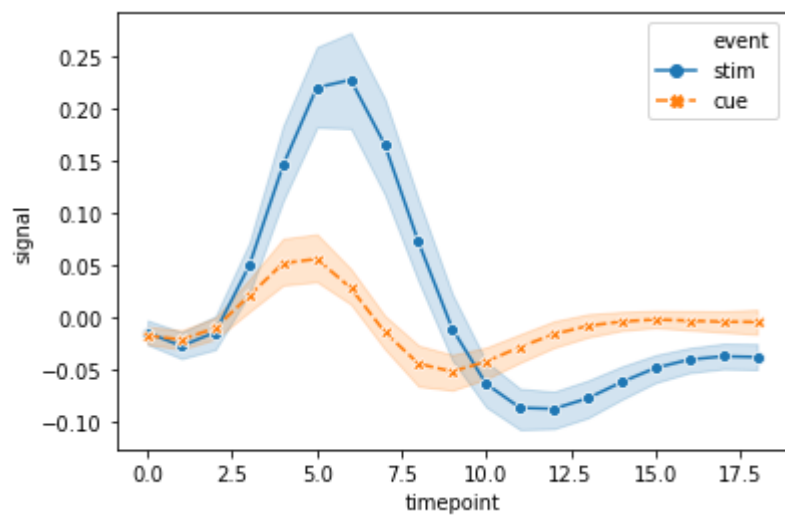
```python
#adding styles
sns.lineplot(x="timepoint",y="signal",data=fmri,hue="event",style="event")
plt.show()
```
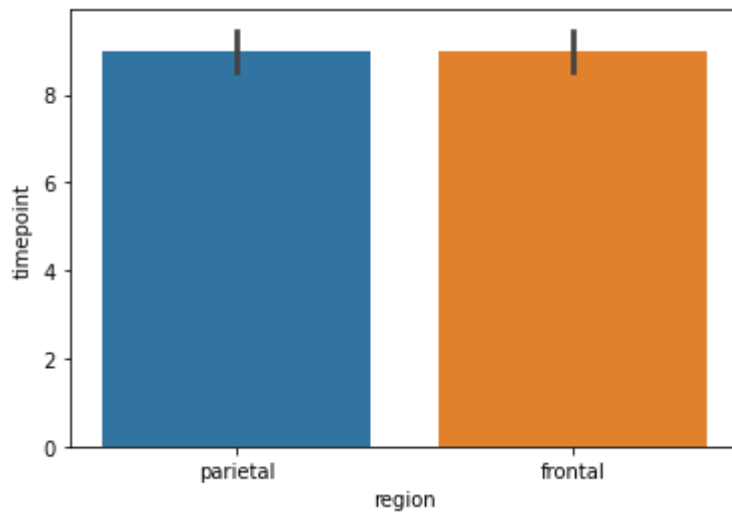
```python
# adding markers
sns.lineplot(x="timepoint",y="signal",data=fmri,hue="event",style="event",markers=True)
plt.show()
```
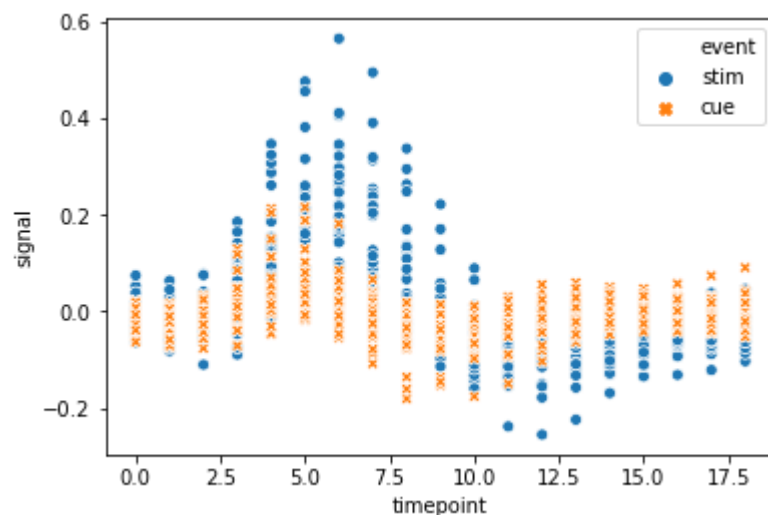
barplot

```
sns.barplot(x="region",y="timepoint",data=fmri)
plt.show()
```
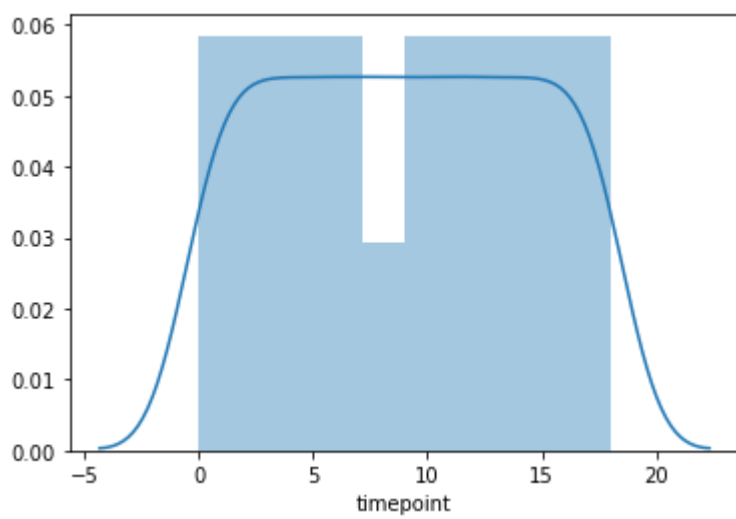

scatterplot

```
sns.scatterplot(x="timepoint",y="signal",data=fmri,hue="event",style="event",markers=True)
plt.show()
```
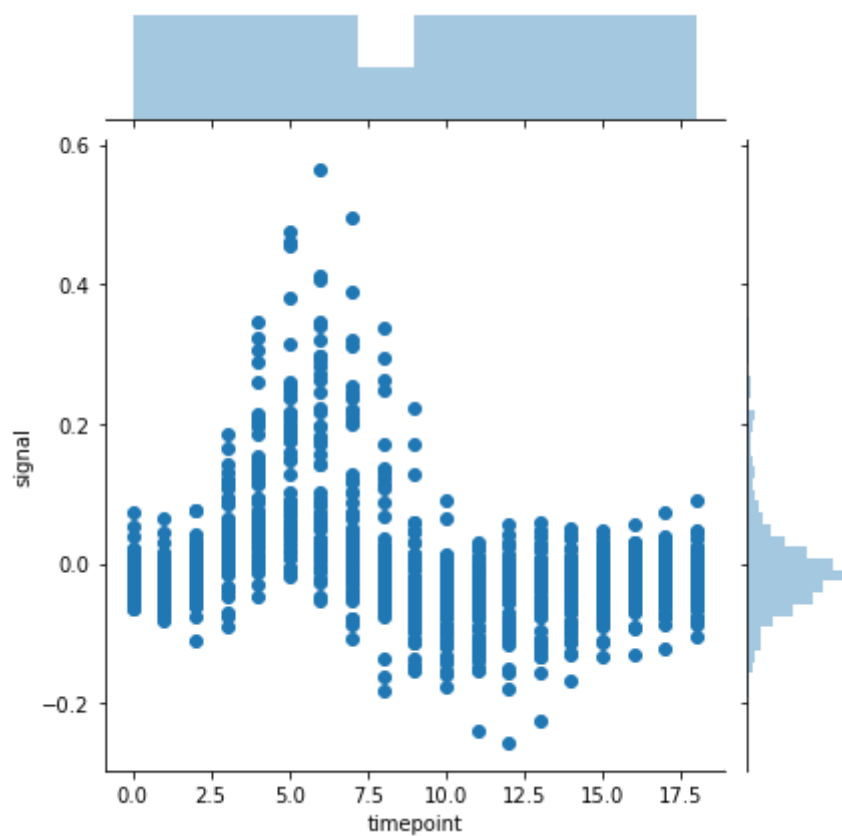

distplot

```
sns.distplot(fmri["timepoint"])
plt.show()
```
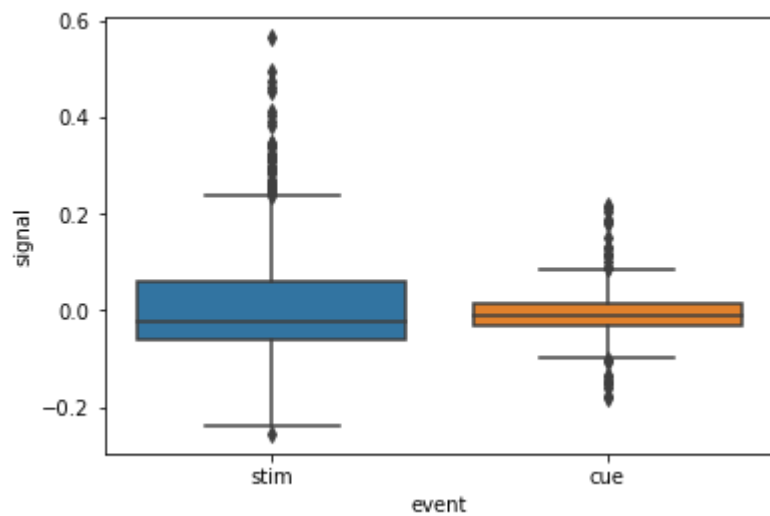

jointplot

```
sns.jointplot(x="timepoint",y="signal",data=fmri)
plt.show()
```


boxplot
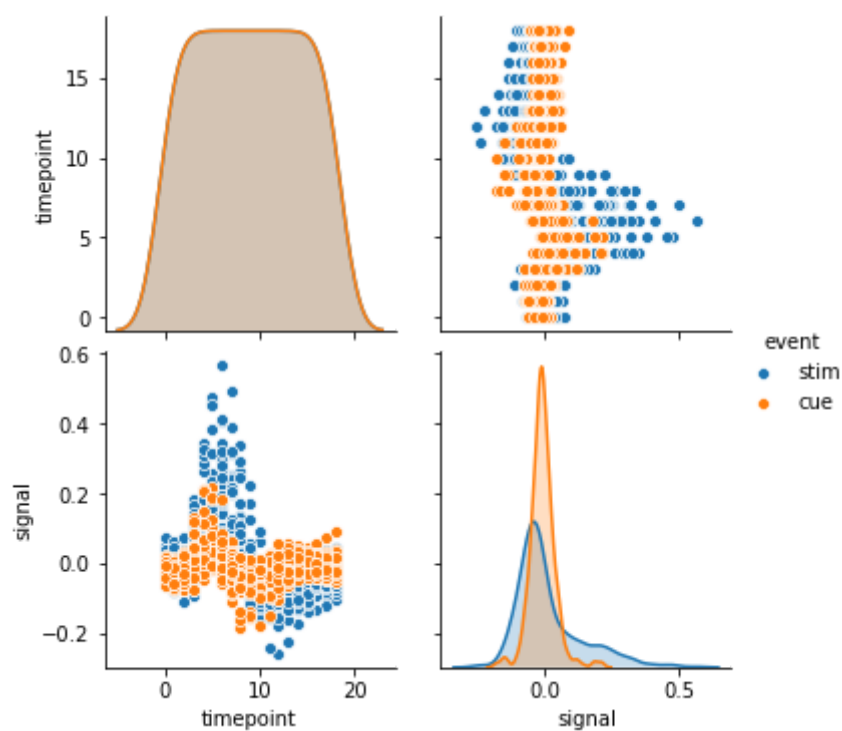
```
sns.boxplot(x="event",y="signal",data=fmri)
plt.show()
```


pairplot

```python
sns.pairplot(fmri,hue="event")
plt.show()
```