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In [1]: # Date:- 12/07/2021
# Assignment 3
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In [29]: import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
from numpy.random import randn
%matplotlib inline
```

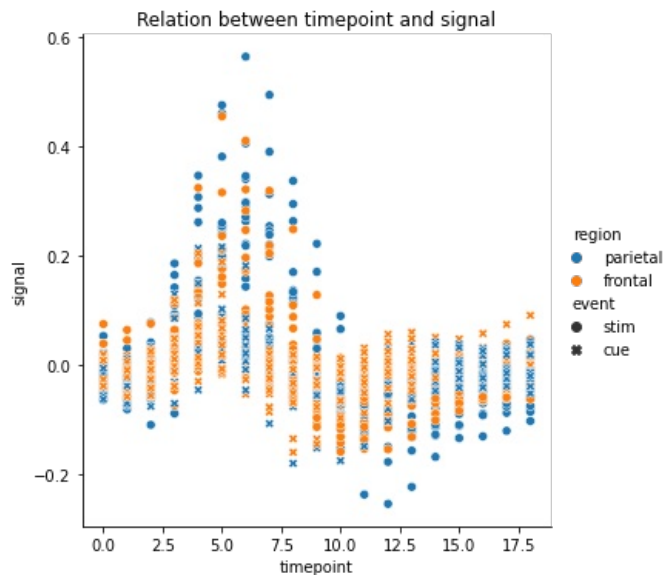
```
In [30]: fmri = sns.load_dataset('fmri')
fmri.head(10)
```

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Out[30]:
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	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
5	s9	18	stim	parietal	-0.103513
6	s8	18	stim	parietal	-0.064408
7	s7	18	stim	parietal	-0.060526
8	s6	18	stim	parietal	-0.007029
9	s5	18	stim	parietal	-0.040557

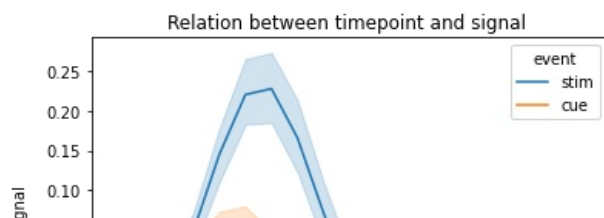
```
In [31]: sns.relplot(x = 'timepoint', y = 'signal', data=fmri, hue='region', style='event')
plt.title('Relation between timepoint and signal')
```

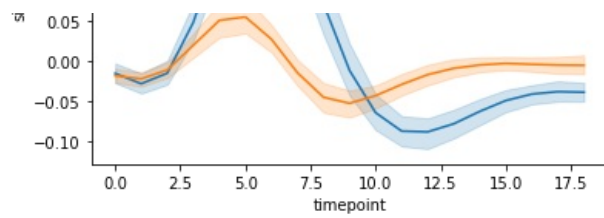
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Out[31]: Text(0.5, 1.0, 'Relation between timepoint and signal')
```



```
In [32]: sns.lineplot(x = 'timepoint', y = 'signal', data=fmri, hue = 'event')
plt.title('Relation between timepoint and signal')
```

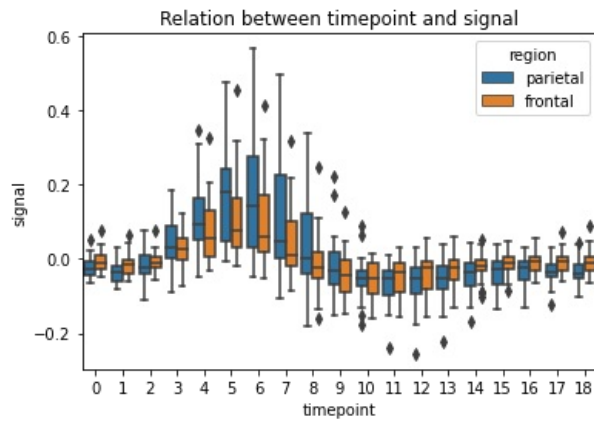
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Out[32]: Text(0.5, 1.0, 'Relation between timepoint and signal')
```





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In [33]: sns.boxplot(data = fmri, x = 'timepoint', y = 'signal', hue = 'region')
plt.title('Relation between timepoint and signal')
```

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Out[33]: Text(0.5, 1.0, 'Relation between timepoint and signal')
```



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In [ ]:
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