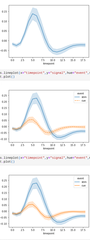
```
import pandas as pd
import numpy as np
from matplotlib import pyplot as plt
```

```
df=sns.load_dataset("mpg")
df.head()
```

	mpg	cylinders	displacement	horsepower	weight	acceleration	model_year	origin	name
0	18.0	8	307.0	130.0	3504	12.0	70	usa	chevrolet chevelle malibu
1	15.0	8	350.0	165.0	3693	11.5	70	usa	buick skylark 320
2	18.0	8	318.0	150.0	3436	11.0	70	usa	plymouth satellite
3	16.0	8	304.0	150.0	3433	12.0	70	usa	amc rebel sst
4	17.0	8	302.0	140.0	3449	10.5	70	usa	ford torino

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

[]

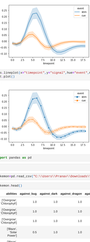



```
sns.lineplot(x="timepoint",y="signal",hue="event",style="event",data=fmri)
plt.plot()
```

[]


```
sns.lineplot(x="timepoint",y="signal",hue="event",marker=True,data=fmri)
plt.plot()
```

[]




```
sns.lineplot(x="timepoint",y="signal",hue="event",marker=True,style="event",data=fmri)
plt.plot()
```

[]


```
import pandas as pd
```

```
pokemonreport.read_csv("C:\Users\Prraven\Downloads\pokemon.csv")
```

```
pokemon.head()
```

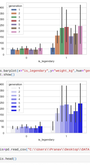
	abilities	against_bug	against_dark	against_dragon	against_electric	against_fairy	against_fight	against_fire	against_flying	against_ghost	against_grass	against_ground	against_ice	against_normal	against_poison	against_psychic	against_rock	against_steel	against_water	attack	base_egg	base_happiness	base_total	capture_rate	classfication	defense	description	...	pokedex_number	percentage_male	primary_capture_rate	name	generation	type1	type2
0	['Overgrow', 'Chlorophyll']	1.0	1.0	1.0	0.5	0.5	0.5	2.0	2.0	1.0	0.25	1.0	1.0	1.0	1.0	2.0	1.0	1.0	0.5	49.0	5	60	318	45	Seed Pokémon	49	A strange seed was planted on its back at birth. The plant sp	...	1	88.1	45	bulbasaur	1	grass	poison
1	['Overgrow', 'Chlorophyll']	1.0	1.0	1.0	0.5	0.5	0.5	2.0	2.0	1.0	0.25	1.0	1.0	1.0	1.0	2.0	1.0	1.0	0.5	62.0	5	60	405	45	Seed Pokémon	63	When the bulb on its back grows large, it appears to lose the	...	2	88.1	45	ivysaur	1	grass	poison
2	['Overgrow', 'Chlorophyll']	1.0	1.0	1.0	0.5	0.5	0.5	2.0	2.0	1.0	0.25	1.0	1.0	1.0	1.0	2.0	1.0	1.0	0.5	82.0	5	60	625	45	Seed Pokémon	83	Vines extend from its back. They are used to capture prey and	...	3	88.1	45	venusaur	1	grass	poison
3	['Blaze', 'Solar Power']	0.5	1.0	1.0	1.0	0.5	0.5	0.5	1.0	1.0	0.25	1.0	0.5	1.0	1.0	1.0	2.0	0.5	0.5	52.0	5	60	309	45	Lizard Pokémon	43	Spits fire that is hot enough to melt boulders. Known to cause	...	4	88.1	45	charmander	1	fire	NaN
4	['Blaze', 'Solar Power']	0.5	1.0	1.0	1.0	0.5	0.5	0.5	1.0	1.0	0.25	1.0	0.5	1.0	1.0	1.0	2.0	0.5	0.5	64.0	5	60	405	45	Flame Pokémon	58	Spits fire that is hot enough to melt boulders. Known to cause	...	5	88.1	45	charmeleon	1	fire	NaN

5 rows × 41 columns

```
sns.barplot(x="is_legendary",y="speed",data=pokemon)
plt.show()
```

```
sns.barplot(x="is_legendary",y="weight_kg",data=pokemon)
plt.show()
```

```
sns.barplot(x="is_legendary",y="weight_kg",hue="generation",data=pokemon)
plt.show()
```




```
sns.barplot(x="is_legendary",y="weight_kg",hue="generation",palette="Blue",data=pokemon)
plt.show()
```

```
pirtipd.read_csv("C:\Users\Prraven\Desktop\DATA SCIENCE INTERVIEW FILES\titanic.csv")
```

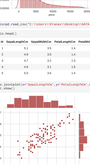
```
titn.head()
```

	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
0	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	NaN	S
1	1	1	Cumings, Mrs. John Bradley (Florence Briggs Thayer)	female	38.0	1	0	PC 17599	71.2833	C85	C
2	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	NaN	S
3	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000	C123	S
4	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500	NaN	S

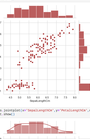
```
sns.barplot(x="Survived",y="Fare",data=titn)
plt.show()
```

```
sns.barplot(x="Survived",y="Fare",hue="Pclass",data=titn)
plt.show()
```

```
sns.barplot(x="Survived",y="Fare",hue="Pclass",palette="Blue",data=titn)
plt.show()
```




```
sns.barplot(x="Survived",y="Fare",hue="Pclass",palette="Pastel1",data=titn)
plt.show()
```




```
import pandas as pd
import numpy as np
from matplotlib import pyplot as plt
```

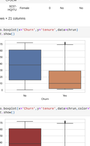
```
diamondpriad.read_csv("C:\Users\Prraven\Desktop\DATA SCIENCE INTERVIEW FILES\diamonds.csv")
```

```
diamond.head()
```

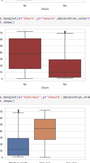
	Unnamed: 0	carat	cut	color	clarity	depth	table	price	x	y	z
0	1	0.23	Ideal	E	SI2	61.5	55.0	326	3.95	3.98	2.43
1	2	0.21	Premium	E	SI1	59.8	61.0	326	3.89	3.84	2.31
2	3	0.23	Good	E	VS1	56.9	65.0	327	4.05	4.07	2.31
3	4	0.29	Premium	I	VS2	62.4	58.0	334	4.20	4.23	2.63
4	5	0.31	Good	J	SI2	63.3	58.0	335	4.34	4.35	2.75

```
sns.distplot(diamond['price'],kde=True)
plt.show()
```

```
C:\Users\Prraven\continuum\anaconda3\lib\site-packages\seaborn\distributions.py:2619: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please a
dapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).
  warnings.warn(msg, FutureWarning)
```

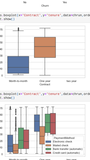



```
sns.distplot(diamond['price'],kde=False)
plt.show()
```



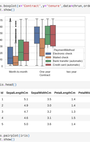

```
sns.distplot(diamond['price'],kde=False)
plt.show()
```

```
C:\Users\Prraven\continuum\anaconda3\lib\site-packages\seaborn\distributions.py:2619: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please a
dapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).
  warnings.warn(msg, FutureWarning)
```




```
sns.distplot(diamond['price'],color='brown',bins=5)
plt.show()
```

```
C:\Users\Prraven\continuum\anaconda3\lib\site-packages\seaborn\distributions.py:2619: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please a
dapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).
  warnings.warn(msg, FutureWarning)
```

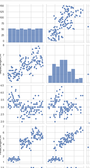



```
pirtipd.read_csv("C:\Users\Prraven\Desktop\DATA SCIENCE INTERVIEW FILES\titn.csv")
```

```
titn.head()
```

	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
0	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	NaN	S
1	1	1	Cumings, Mrs. John Bradley (Florence Briggs Thayer)	female	38.0	1	0	PC 17599	71.2833	C85	C
2	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	NaN	S
3	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000	C123	S
4	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500	NaN	S

```
sns.barplot(x="Survived",y="Fare",data=titn,color="brown")
plt.show()
```




```
sns.barplot(x="Survived",y="Fare",hue="Pclass",palette="Blue",data=titn)
plt.show()
```



```
sns.barplot(x="Survived",y="Fare",hue="Pclass",palette="Pastel1",data=titn)
plt.show()
```



```
pirtipd.read_csv("C:\Users\Prraven\Desktop\DATA SCIENCE INTERVIEW FILES\Fire-Dept-SF.csv\Fire-Dept-SF.csv")
```

```
firef.head()
```

	Unnamed: 0	Call Number	Unit ID	Incident Number	Call Type	Call Date	Watch Date	Received DtTm	Entry DtTm	Dispatch DtTm	Response DtTm	On Scene DtTm	Transport DtTm	Hospital DtTm	Call Final Disposition	Complete Datetime	Address	City	Zipcode of Incident	Battalion	Station Area	Box	Original Priority	Priority	Final Priority	ALS Unit	Call Type Group	Number of Alarms	Unit Type	Unit sequence in call dispatch	Fire Prevention District	Supervisor District	Neighborhoods - Analysis Boundaries	RowID	Delay
0	0	34091051	34091051-WTR	34091051	WATER LOSS	06/04/2034	06/04/2034	06/04/2034 10:38:00 AM	06/04/2034 10:38:00 AM	06/04/2034 10:39:00 AM	NaN	NaN	NaN	NaN	Cancel	06/04/2034 10:39:00 AM	2000 Block of CALIFORNIA ST	SF	94109	B04	04	3362	3	3	NaN	False	WATER LOSS	1	WATER TRUCK	1	NaN	5	Nob Hill	6	0.00000000
1	1	34091052	34091052-MED	34091052	MEDICAL INCIDENT	06/04/2034	06/04/2034	06/04/2034 10:39:00 AM	06/04/2034 10:39:00 AM	06/04/2034 10:41:00 AM	06/04/2034 10:43:00 AM	06/04/2034 10:48:00 AM	06/04/2034 11:00:00 AM	NaN	Cancel	06/04/2034 11:00:00 AM	800 Block of BRYANT ST	SF	94103	B03	03	3213	3	3	NaN	False	MEDICAL INCIDENT	1	MEDIC	1	NaN	6	Mission	22	0.00000000
2	2	34091053	34091053-WTR	34091053	WATER LOSS	06/04/2034	06/04/2034	06/04/2034 10:39:00 AM	06/04/2034 10:39:00 AM	06/04/2034 10:40:00 AM	NaN	NaN	NaN	NaN	Cancel	06/04/2034 10:40:00 AM	0 Block of SHIPLEY ST	SF	94107	B02	02	3143	3	3	NaN	False	WATER LOSS	1	WATER TRUCK	1	NaN	6	South of Market	64	0.00000000
3	3	34091054	34091054-MED	34091054	MEDICAL INCIDENT	06/04/2034	06/04/2034	06/04/2034 10:40:00 AM	06/04/2034 10:40:00 AM	06/04/2034 10:42:00 AM	06/04/2034 10:43:00 AM	06/04/2034 10:48:00 AM	06/04/2034 11:00:00 AM	NaN	Cancel	06/04/2034 11:00:00 AM	1000 Block of POST ST	SF	94109	B04	04	3362	3	3	NaN	False	MEDICAL INCIDENT	1	MEDIC	1	NaN	5	Nob Hill	6	0.00000000
4	4	34091055	34091055-MED	34091055	MEDICAL INCIDENT	06/04/2034	06/04/2034	06/04/2034 10:41:00 AM	06/04/2034 10:41:00 AM	06/04/2034 10:42:00 AM	06/04/2034 10:43:00 AM	06/04/2034 10:48:00 AM	06/04/2034 11:00:00 AM	NaN	Cancel	06/04/2034 11:00:00 AM	1000 Block of POST ST	SF	94109	B04	04	3362	3	3	NaN	False	MEDICAL INCIDENT	1	MEDIC	1	NaN	5	Nob Hill	6	0.00000000

5 rows × 34 columns

```
sns.boxplot(x="Churn",y="Tenure",data=echarf)
plt.show()
```



```
sns.boxplot(x="Churn",y="Tenure",data=echarf,color="brown")
plt.show()
```



```
sns.boxplot(x="contract",y="Tenure",data=echarf,order=["Month-to-month","One year","Two year"])
plt.show()
```



```
sns.boxplot(x="contract",y="Tenure",data=echarf,order=["Month-to-month","One year","Two year"],hue="PaymentMethod")
plt.show()
```



```
import pandas as pd
```

```
titn.head()
```

	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
0	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	NaN	S
1	1	1	Cumings, Mrs. John Bradley (Florence Briggs Thayer)	female	38.0	1	0	PC 17599	71.2833	C85	C
2	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	NaN	S
3	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000	C123	S
4	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500	NaN	S

```
sns.pairplot(titn)
plt.show()
```