In [1]:
```
import pandas as pd
df = pd.read_csv('C://Users//khage//OneDrive//Documents//Data Visualization//
df
```

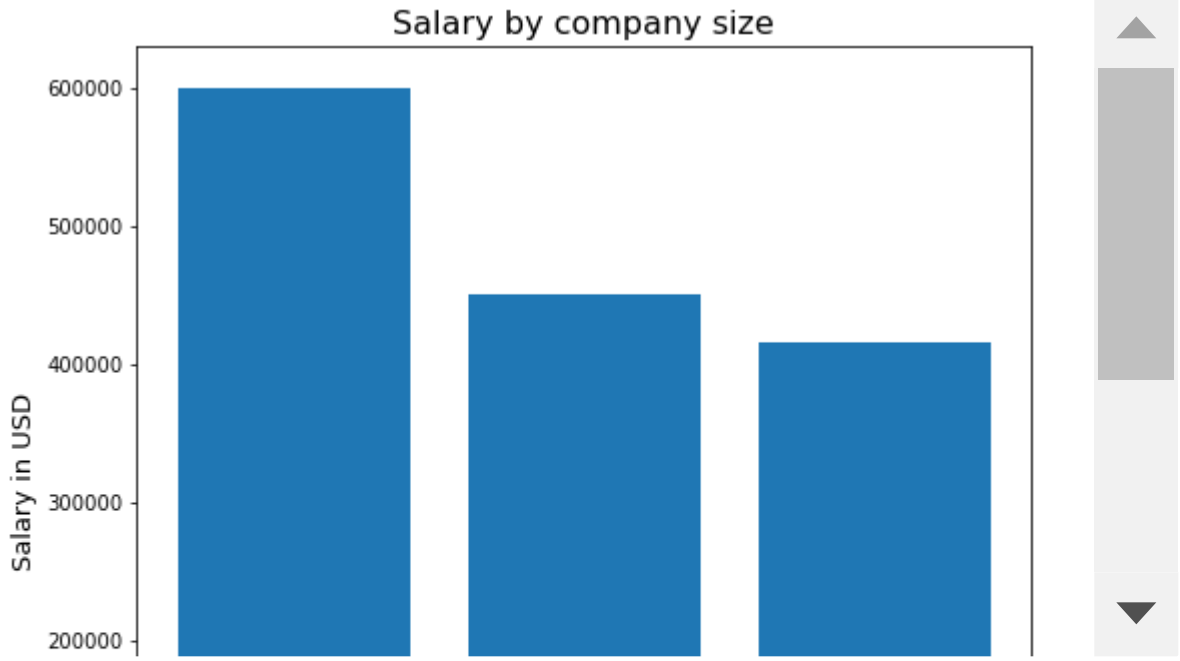
Out[1]:

nt_type	job_title	salary	salary_currency	salary_in_usd	employee_residence	remote_ratio
FT	Data Science Consultant	54000	EUR	64369	DE	50
FT	Data Scientist	60000	EUR	68428	GR	100
FT	Head of Data Science	85000	USD	85000	RU	0
FT	Head of Data	230000	USD	230000	RU	50
FT	Machine Learning Engineer	125000	USD	125000	US	100
...	...	...	...	...	...	...
FT	Data Scientist	412000	USD	412000	US	100
FT	Principal Data Scientist	151000	USD	151000	US	100
FT	Data Scientist	105000	USD	105000	US	100
CT	Business Data Analyst	100000	USD	100000	US	100
FT	Data Science Manager	7000000	INR	94917	IN	50

Salary in usd by company size

In [36]:

```
import matplotlib.pyplot as plt
import numpy as np
df_sorted_desc= df.sort_values('salary_in_usd',ascending=False)
fig, ax = plt.subplots()
ax.bar('company_size','salary_in_usd', data=df_sorted_desc)
ax.set_title("Salary by company size",fontdict={'size':16,'color':'black'})
ax.set_xlabel("Company Size",fontdict={'size':13,'color':'black'})
ax.set_ylabel("Salary in USD",fontdict={'size':13,'color':'black'})
ax.grid='False'

fig.set_size_inches(8,8)
plt.show()
plt.savefig('my_plot.png')
```



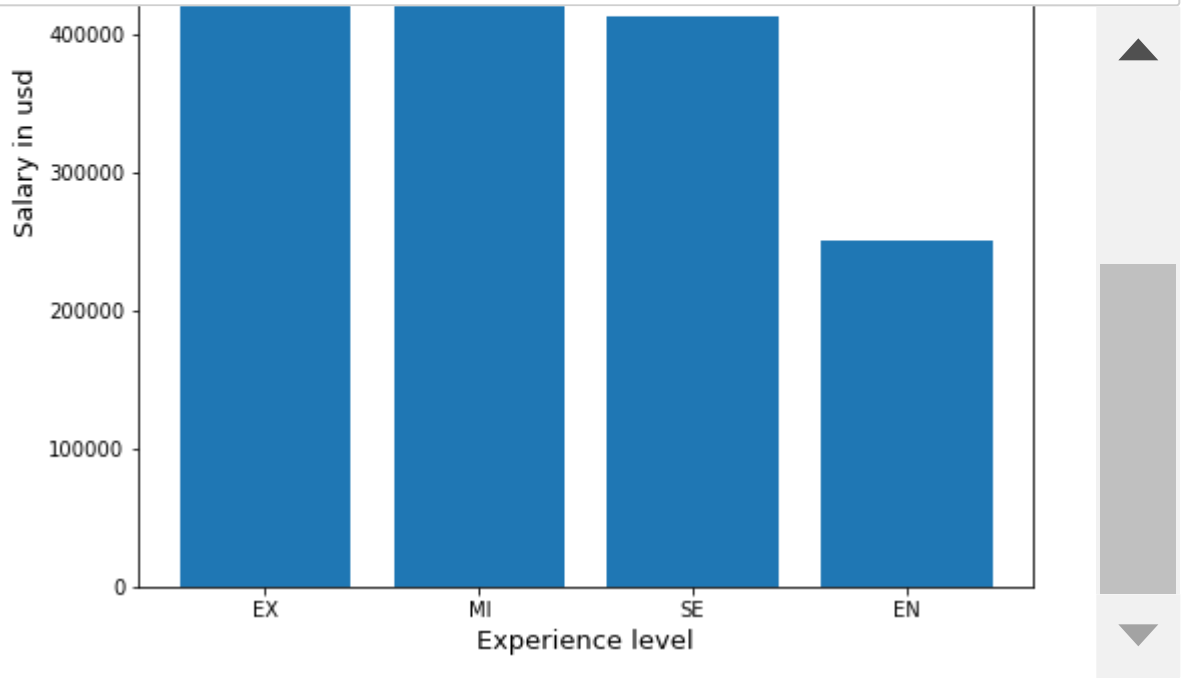
Salary in usd by employee residence

In [39]:

```
import matplotlib.pyplot as plt
import numpy as np
df_sorted_desc= df.sort_values('salary_in_usd',ascending=False)

fig, ax = plt.subplots()

ax.bar('employee_residence','salary_in_usd', data=df_sorted_desc)
ax.set_title("Salary by employee residence",fontdict={'size':16,'color':'blac
ax.set_xlabel("Employee residence",fontdict={'size':13,'color':'black'})
ax.set_ylabel("Salary in USD",fontdict={'size':13,'color':'black'})
ax.grid='False'

fig.set_size_inches(12,10)
plt.show()
```

Salary by each level of experience

In [24]:
```
import matplotlib.pyplot as plt
import numpy as np

df_sorted_desc= df.sort_values('salary_in_usd',ascending=False)

fig, ax = plt.subplots()

ax.bar('experience_level','salary_in_usd',data=df_sorted_desc)
ax.set_title("Salary by each experience level",fontdict={'size':16,'color':'b
ax.set_xlabel("Experience level",fontdict={'size':13,'color':'black'})
ax.set_ylabel("Salary in usd",fontdict={'size':13,'color':'black'})
ax.grid='false'

fig.set_size_inches(8,8)
plt.show()
```



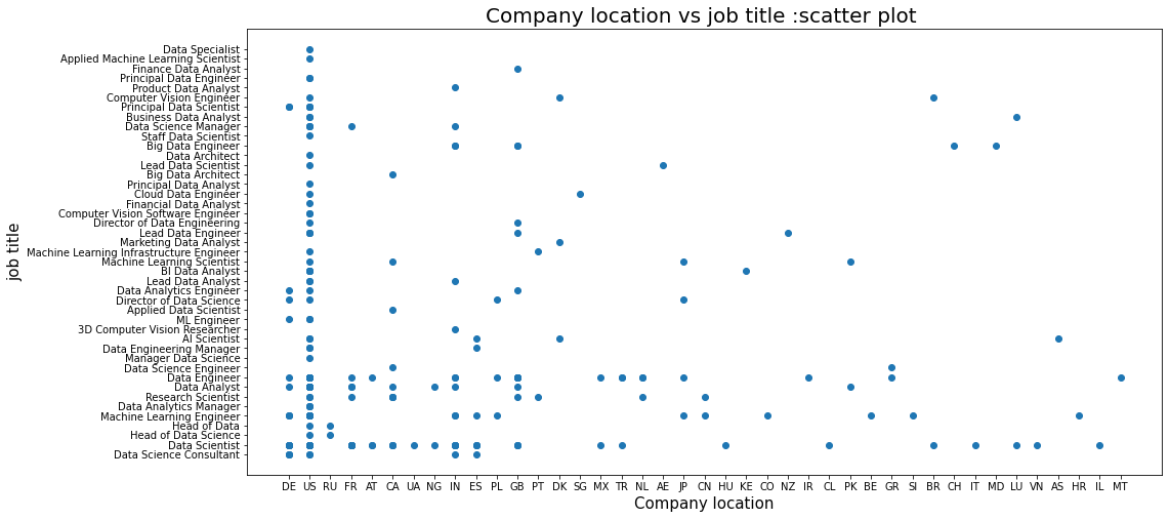
Scatter plot of experience level and salary in usd

In [25]:

```
fig, ax = plt.subplots()

ax.scatter('experience_level','salary_in_usd',data=df)

ax.set_title("Salary in usd on the basis of experience level",fontdict={'size
ax.set_xlabel("Experience level",fontdict={'size':15,'color':'black'})
ax.set_ylabel("Salary(usd)",fontdict={'size':15,'color':'black'})
fig.set_size_inches(8,8)
plt.show()
```

Scatter plot of company location and job title.

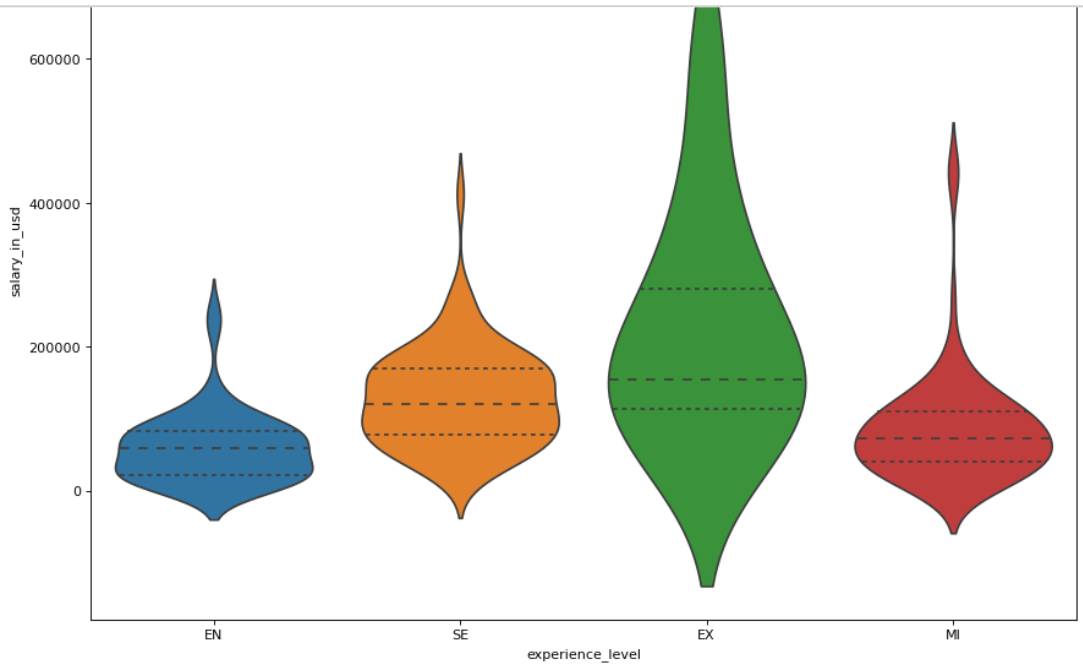
In [26]:
```
fig, ax = plt.subplots()

ax.scatter('company_location','job_title',data=df)

ax.set_title("Company location vs job title :scatter plot ",fontdict={'size':
ax.set_xlabel("Company location",fontdict={'size':15,'color':'black'})
ax.set_ylabel("job title",fontdict={'size':15,'color':'black'})
fig.set_size_inches(16,8)
plt.show()
```



Violin plot of experience level by salary in usd.

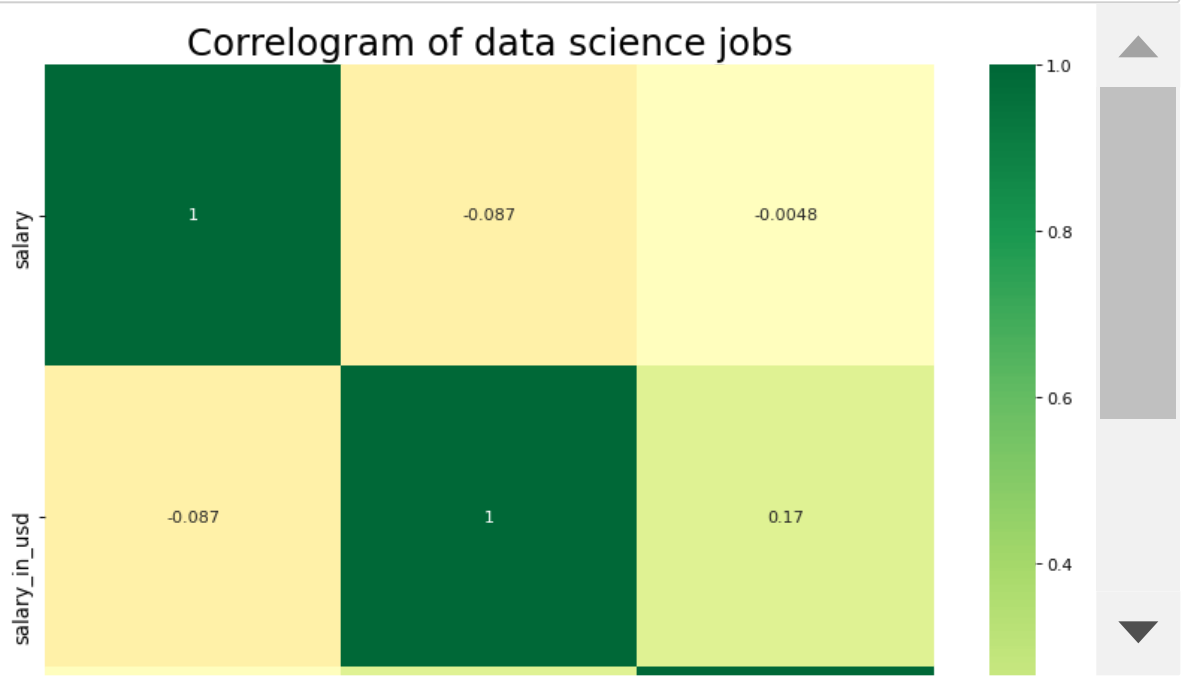
In [6]:

```
# Draw Plot
import seaborn as sns
plt.figure(figsize=(13,10), dpi= 80)
sns.violinplot(x='experience_level', y='salary_in_usd', data=df, scale='width

# Decoration
plt.title('Violin Plot of experience level by salary in usd', fontsize=22)
fig.set_size_inches(8,8)
plt.show()
```



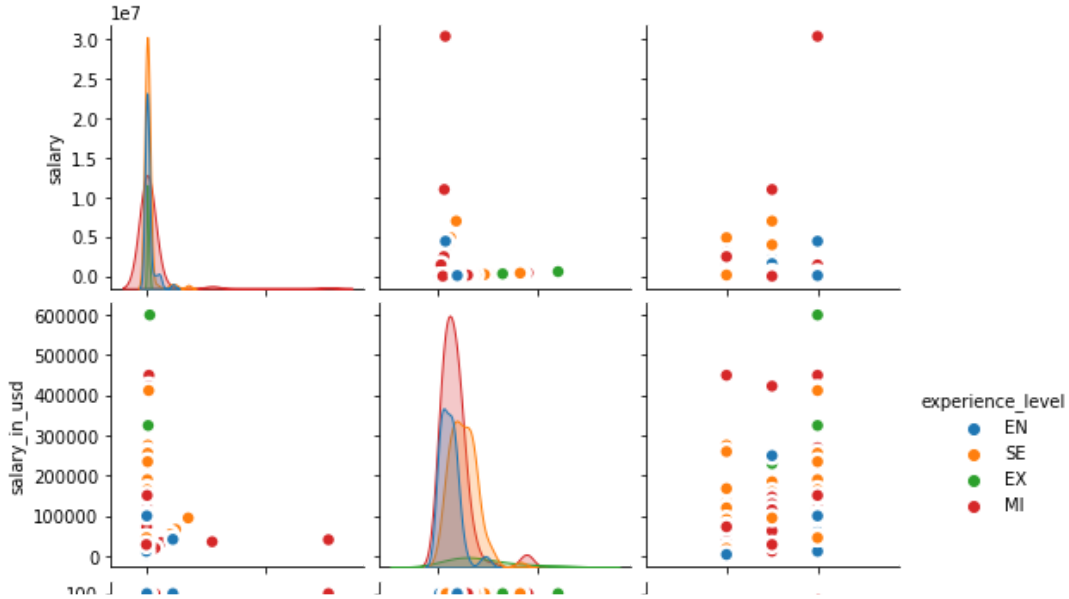
In [27]:

```
# Plot
plt.figure(figsize=(12,10), dpi= 80)
sns.heatmap(df.corr(), xticklabels=df.corr().columns, yticklabels=df.corr().c

# Decorations
plt.title('Correlogram of data science jobs', fontsize=22)
plt.xticks(fontsize=12)
plt.yticks(fontsize=12)
plt.show()
```



In [33]:
```
# Plot
plt.figure(figsize=(10,8), dpi= 80)
sns.pairplot(df, kind="scatter", hue="experience_level", plot_kws=dict(s=80,
fig.set_size_inches(40,16)
plt.show()
```

```
<Figure size 800x640 with 0 Axes>
```



In [ ]: