Data Resoultion Analyser

In [8]:
```
import os
import seaborn as sns
import numpy as np
from matplotlib.pyplot import imread
%matplotlib inline
```

In [9]:
```
dim1 = []
dim2 = []
for image_filename in os.listdir('./images'):
    name, ext = os.path.splitext(image_filename)
    try:
        if not ext == '.xml':
            img = imread('./images/'+image_filename)
            d1,d2,color = img.shape
            dim1.append(d1)
            dim2.append(d2)

    except:
        print(image_filename)
        continue
```

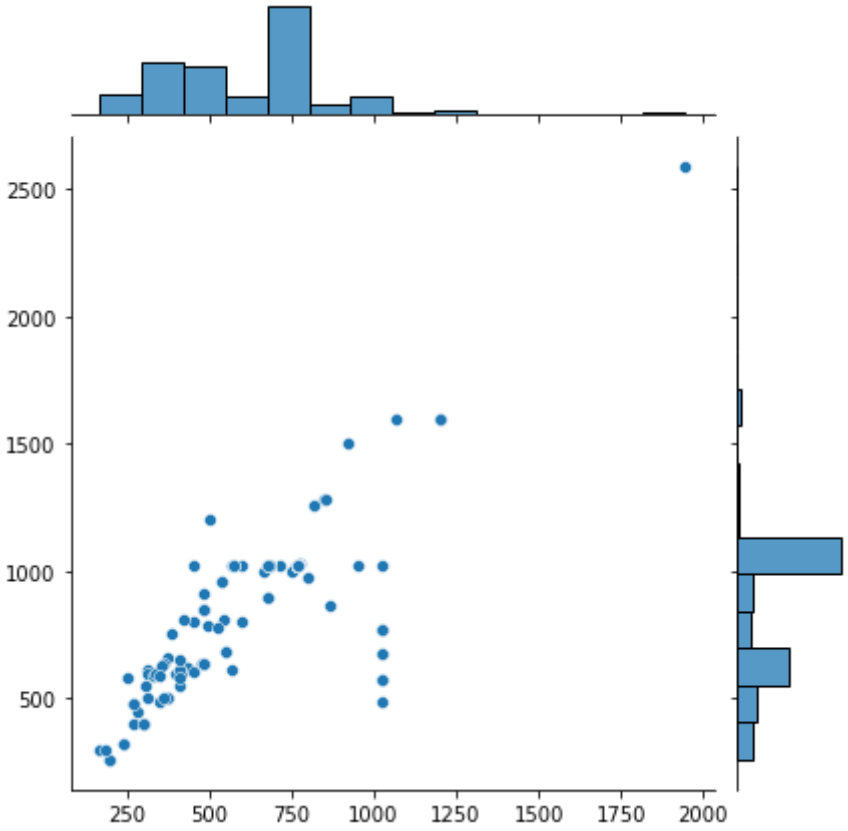
```
Car77.png
Car75.png
Car69.png
Car45.png
train
test
Car53.png
Car50.png
Car42.png
Car56.png
Car67.png
Car65.png
Car63.png
Car73.png
Car58.png
```

In [10]:
```
sns.jointplot(dim1,dim2)
```

```
/home/msc1/anaconda3/envs/Object-Detection-API/lib/python3.7/site-packages/
seaborn/_decorators.py:43: FutureWarning: Pass the following variables as k
eyword args: x, y. From version 0.12, the only valid positional argument wi
ll be `data`, and passing other arguments without an explicit keyword will
```

```
result in an error or misinterpretation.
  FutureWarning
```

Out[10]:
```
<seaborn.axisgrid.JointGrid at 0x7f4c6e9ec0d0>
```



In [11]:
```
np.mean(dim1)
```

Out[11]:
```
610.289156626506
```

In [12]:
```
print('Min:', np.min(dim1))
print('Max:', np.max(dim1))
```

```
Min: 168
Max: 1944
```

In [13]:
```
np.mean(dim2)
```

Out[13]:
```
849.4638554216867
```

In [14]:
```
print('Min:', np.min(dim2))
print('Max:', np.max(dim2))
```

```
Min: 259
Max: 2592
```