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In [65]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
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In [66]: df = pd.read_csv("file1.csv")
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In [67]: df["true_class"].unique()
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Out[67]: array(['Tomato___Bacterial_spot', 'Tomato___healthy',
'Tomato___Late_blight', 'Tomato___Septoria_leaf_spot',
'Tomato___Tomato_Yellow_Leaf_Curl_Virus'], dtype=object)
```

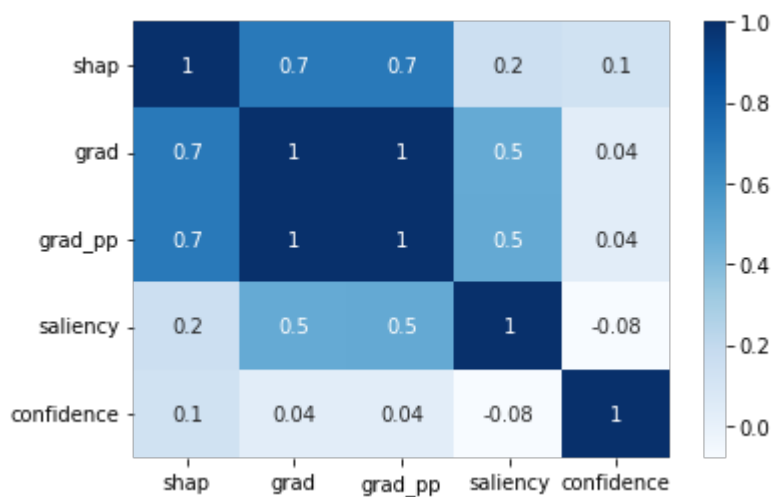
## For all 800 test images with all 5 classes

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In [68]: corr = df.drop(['Unnamed: 0', 'image', 'true_class', 'predicted_class'],axis=1).corr()
heatmap = sns.heatmap(corr, annot=True, cmap="Blues", fmt='.1g')
```



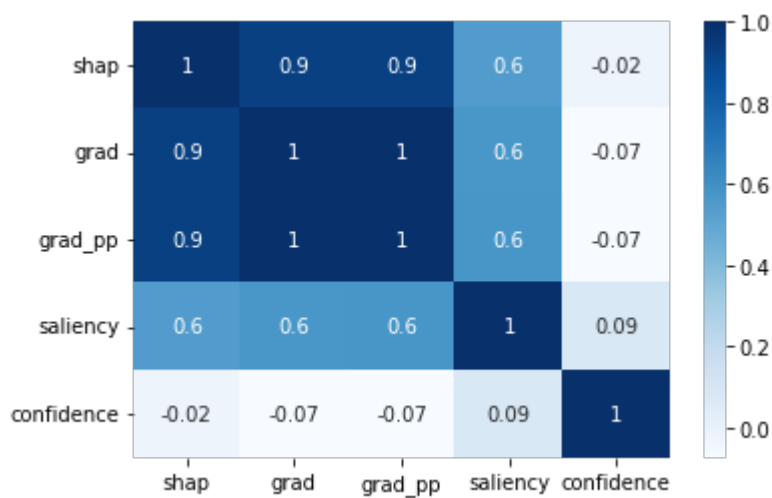
## Tomato\_\_\_healthy

```
In [69]: corr = df.loc[df['true_class'] == 'Tomato___healthy'].drop(['Unnamed: 0', 'image', 'true_class',
'predicted_class'],axis=1).corr()
heatmap = sns.heatmap(corr, annot=True, cmap="Blues", fmt='.1g')
```



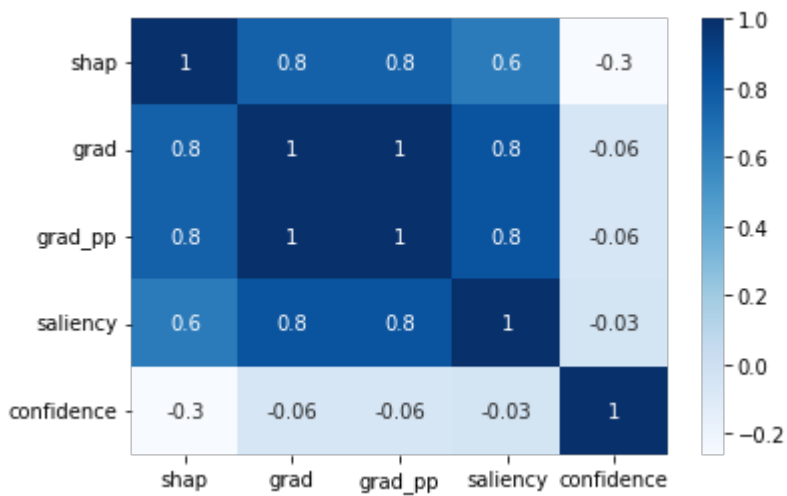
## Tomato\_\_\_Bacterial\_spot

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In [70]: corr = df.loc[df['true_class'] == 'Tomato___Bacterial_spot'].drop(['Unnamed: 0', 'image', 'true_c
lass', 'predicted_class'],axis=1).corr()
heatmap = sns.heatmap(corr, annot=True, cmap="Blues", fmt='.1g')
```



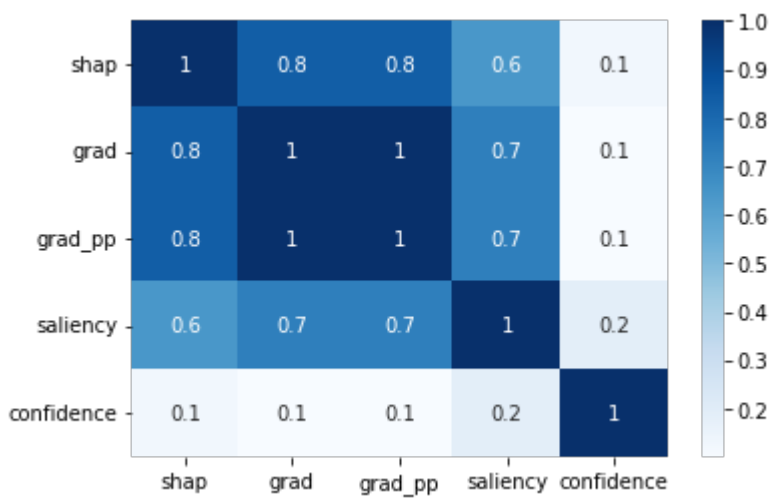
## Tomato\_\_\_Late\_blight

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In [71]: corr = df.loc[df['true_class'] == 'Tomato___Late_blight'].drop(['Unnamed: 0', 'image', 'true_class', 'predicted_class'],axis=1).corr()
heatmap = sns.heatmap(corr, annot=True, cmap="Blues", fmt='.1g')
```



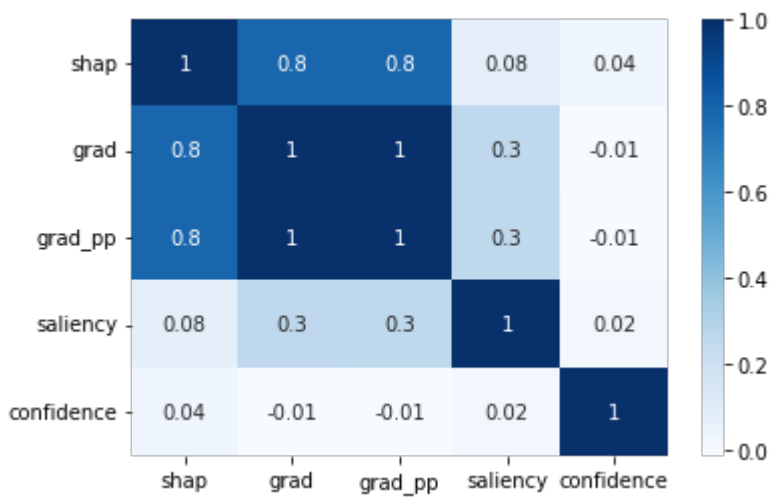
## Tomato\_\_\_Septoria\_leaf\_spot

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In [72]: corr = df.loc[df['true_class'] == 'Tomato___Septoria_leaf_spot'].drop(['Unnamed: 0', 'image', 'true_class', 'predicted_class'],axis=1).corr()
heatmap = sns.heatmap(corr, annot=True, cmap="Blues", fmt='.1g')
```



## Tomato\_\_\_Tomato\_Yellow\_Leaf\_Curl\_Virus

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In [73]: corr = df.loc[df['true_class'] == 'Tomato___Tomato_Yellow_Leaf_Curl_Virus'].drop(['Unnamed: 0', 'image', 'true_class', 'predicted_class'],axis=1).corr()
heatmap = sns.heatmap(corr, annot=True, cmap="Blues", fmt='.1g')
```



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In [78]:
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