Linear Algebra

March 12, 2018

```python
In [1]: import pandas as pd
        import matplotlib.pyplot as plt
        import numpy as np
        import seaborn as sns
        %matplotlib inline

In [2]: df=pd.read_csv('creditcard.csv')

In [4]: df.tail()
```

```
Out[4]:              Time         V1         V2        V3        V4        V5  \
        284802  172786.0 -11.881118  10.071785 -9.834783 -2.066656 -5.364473
        284803  172787.0  -0.732789  -0.055080  2.035030 -0.738589  0.868229
        284804  172788.0   1.919565  -0.301254 -3.249640 -0.557828  2.630515
        284805  172788.0  -0.240440   0.530483  0.702510  0.689799 -0.377961
        284806  172792.0  -0.533413  -0.189733  0.703337 -0.506271 -0.012546

                      V6        V7        V8        V9  ...        V21       V22  \
        284802 -2.606837 -4.918215  7.305334  1.914428  ...   0.213454  0.111864
        284803  1.058415  0.024330  0.294869  0.584800  ...   0.214205  0.924384
        284804  3.031260 -0.296827  0.708417  0.432454  ...   0.232045  0.578229
        284805  0.623708 -0.686180  0.679145  0.392087  ...   0.265245  0.800049
        284806 -0.649617  1.577006 -0.414650  0.486180  ...   0.261057  0.643078

                      V23       V24       V25       V26       V27       V28  Amount  \
        284802  1.014480 -0.509348  1.436807  0.250034  0.943651  0.823731    0.77
        284803  0.012463 -1.016226 -0.606624 -0.395255  0.068472 -0.053527   24.79
        284804 -0.037501  0.640134  0.265745 -0.087371  0.004455 -0.026561   67.88
        284805 -0.163298  0.123205 -0.569159  0.546668  0.108821  0.104533   10.00
        284806  0.376777  0.008797 -0.473649 -0.818267 -0.002415  0.013649  217.00

                Class
        284802      0
        284803      0
        284804      0
        284805      0
        284806      0
```

```
        [5 rows x 31 columns]

In [5]: df.head()

Out[5]:    Time        V1        V2        V3        V4        V5        V6        V7  \
        0   0.0 -1.359807 -0.072781  2.536347  1.378155 -0.338321  0.462388  0.239599
        1   0.0  1.191857  0.266151  0.166480  0.448154  0.060018 -0.082361 -0.078803
        2   1.0 -1.358354 -1.340163  1.773209  0.379780 -0.503198  1.800499  0.791461
        3   1.0 -0.966272 -0.185226  1.792993 -0.863291 -0.010309  1.247203  0.237609
        4   2.0 -1.158233  0.877737  1.548718  0.403034 -0.407193  0.095921  0.592941

                 V8        V9  ...       V21       V22       V23       V24  \
        0  0.098698  0.363787  ... -0.018307  0.277838 -0.110474  0.066928
        1  0.085102 -0.255425  ... -0.225775 -0.638672  0.101288 -0.339846
        2  0.247676 -1.514654  ...  0.247998  0.771679  0.909412 -0.689281
        3  0.377436 -1.387024  ... -0.108300  0.005274 -0.190321 -1.175575
        4 -0.270533  0.817739  ... -0.009431  0.798278 -0.137458  0.141267

                V25       V26       V27       V28  Amount  Class
        0  0.128539 -0.189115  0.133558 -0.021053  149.62      0
        1  0.167170  0.125895 -0.008983  0.014724    2.69      0
        2 -0.327642 -0.139097 -0.055353 -0.059752  378.66      0
        3  0.647376 -0.221929  0.062723  0.061458  123.50      0
        4 -0.206010  0.502292  0.219422  0.215153   69.99      0

        [5 rows x 31 columns]

In [7]: df['Class'].describe()

Out[7]: count    284807.000000
        mean          0.001727
        std           0.041527
        min           0.000000
        25%           0.000000
        50%           0.000000
        75%           0.000000
        max           1.000000
        Name: Class, dtype: float64

In [14]: g=df.groupby('Class')

In [18]: for Class, Class_df in g:
             print(Class_df['Class'].describe())
             print('\n')

count    284315.0
mean          0.0
std           0.0
```

```
min           0.0
25%           0.0
50%           0.0
75%           0.0
max           0.0
Name: Class, dtype: float64
```

```
count    492.0
mean       1.0
std        0.0
min        1.0
25%        1.0
50%        1.0
75%        1.0
max        1.0
Name: Class, dtype: float64
```

In [20]: `284315//492`

Out[20]: `577`

In [24]: `577*5`

Out[24]: `2885`

non_fraudulent : fraudulent :: 577 : 1
sample composition -
2885 non_fraudulent 5 fraudeulent transactions

In [71]: `fraudulent_dataset=df[df['Class']==1][5:]`

In [72]: `non_fraudulent_dataset=df[df['Class']==0][2885:]`

In [73]: `fraudulent_sample=df[df['Class']==1][:5]`
        `non_fraudulent_sample=df[df['Class']==0][:2885]`

In [74]: `source=pd.concat((fraudulent_sample, non_fraudulent_sample))`

In [75]: `target=pd.concat((fraudulent_dataset, non_fraudulent_dataset))`

Now source has similar Class distribution as df and for each transaction in source we have to search for top 10 transactions in target with lowest similarity

$$similarity(v_i, v_j) = \cos^{-1} \frac{v_i \cdot v_j}{\|v_i\| \|v_j\|}$$

```
In [94]: source_matrix=source.as_matrix()
         target_matrix=target.as_matrix()

In [97]: ans=[]

         for sIndex, sample in zip(source.index,source_matrix):
             similarity_list=[]


             for tIndex, tVec in  zip(target.index,target_matrix):
                 similarity_list.append((np.dot(sample, np.transpose(tVec))/(np.linalg.norm(samp

             print('sample' + str(sIndex))

             similarity_list=sorted(similarity_list, key=lambda x:x[0])
             similarity_list.reverse()
             ans.append((sIndex, similarity_list[:10]))
```

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In [101]: ans

Out[101]: [(541,
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 ...]
```

1 Now let's do the EDA

1.1 Dataset description

284807 rows 31 features

Feature 1 is time elapsed between this transaction and first transaction in dataset Features 2 - 29 are Principle components of some unknown features Feature 30 in transaction amount

Class label in feature 31

1.2 Objective

Find the best features for classification

```
In [43]: df.describe().loc['std'].max()

Out[43]: 47488.145954565822

In [7]: df.describe()['Amount']

Out[7]: count    284807.000000
        mean         88.349619
        std         250.120109
        min           0.000000
        25%           5.600000
        50%          22.000000
        75%          77.165000
        max       25691.160000
        Name: Amount, dtype: float64

In [3]: fraudulent=df[df['Class']==1]
        genuine=df[df['Class']==0]

In [5]: from statsmodels import robust

In [6]: robust.mad(df['Amount'])

Out[6]: 29.97821685818327
```

Indicates presence of outliers

```
In [57]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
             .map(sns.distplot, "V1") \
             .add_legend();
```
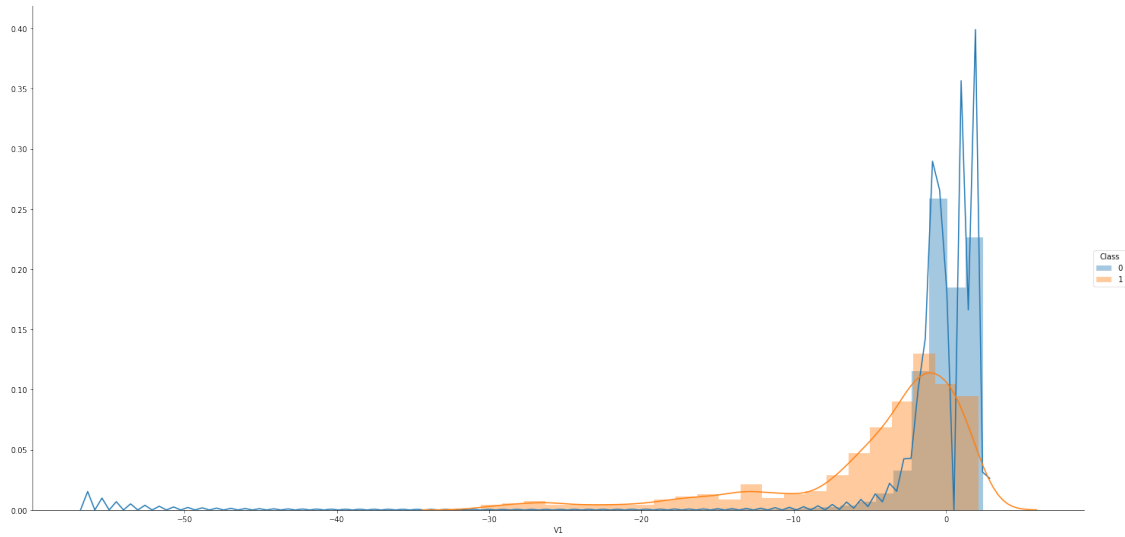
```
In [111]: print(np.percentile(fraudulent['V1'],q=[0,25,50,75,90,100]))
          print(np.percentile(genuine['V1'], q=[100,75,50,25,10,0, 40]))

[-30.55238004  -6.03606299  -2.34249745  -0.41920008    1.07523544
   2.13238602]
[  2.45492999e+00    1.31621801e+00    2.00232859e-02  -9.17543591e-01
  -1.88472416e+00  -5.64075096e+01  -4.24916604e-01]
```

there is overlap between two pdfs however we can observe 75% fraudulent transactions have V1 less than -0.42 60% genuine transactions have V1 more than -0.42. This makes V1 a fairly feature for classification

```
In [58]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
             .map(sns.distplot, "V2") \
             .add_legend();
```
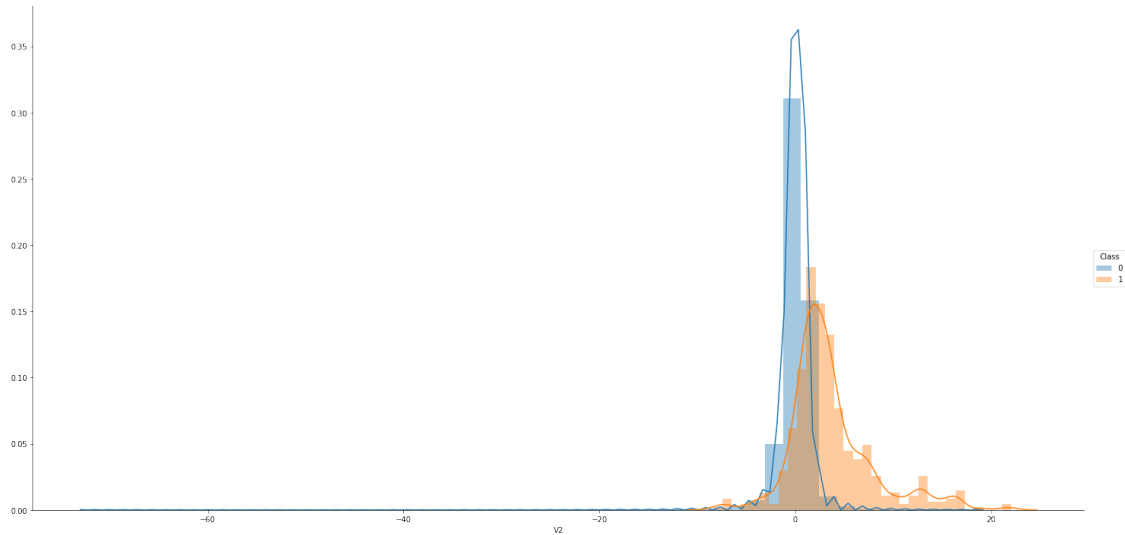
```
In [117]: print(np.percentile(fraudulent['V2'],q=[0,21,50,75,90,100]))
          print(np.percentile(genuine['V2'], q=[100,75,85,50,25,10,0]))

[ -8.40215368    1.06997849    2.7178686    4.97125732    8.76972245
  22.05772899]
[  1.89024528e+01    8.00446405e-01    1.10659479e+00    6.40697590e-02
  -5.99472583e-01   -1.36060501e+00   -7.27157276e+01]
```

At first glance pdfs seem to overlap a lot but careful analysis reveals that 85% of genuine transactions have V2 less than 1.1065 whereas 79% fraudulent transactions have V2 more than 1.1069. This makes V2 a very good choice for discrimination

```
In [59]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
            .map(sns.distplot, "V3") \
            .add_legend();
```
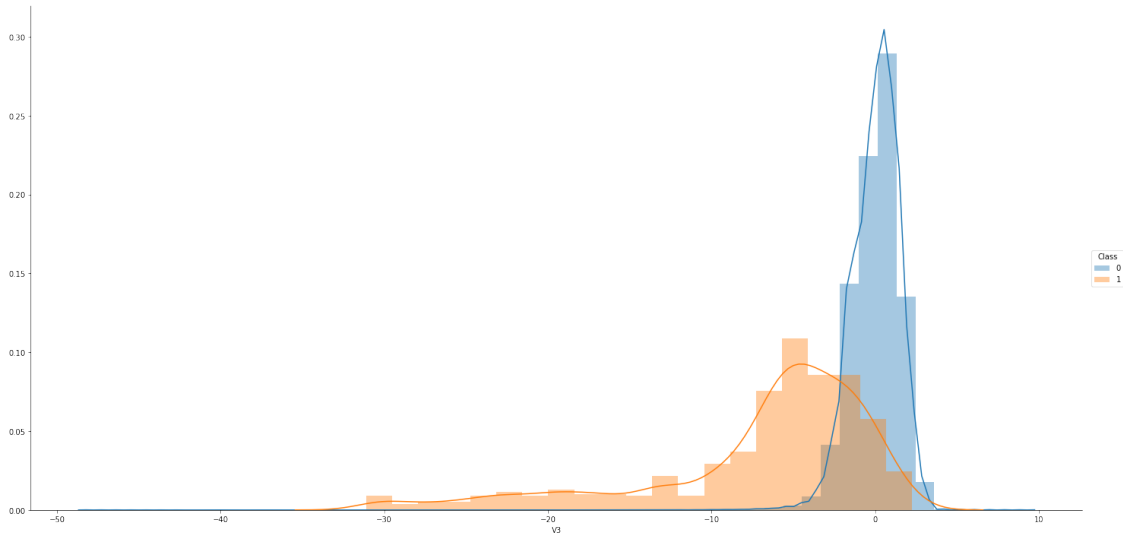
It can be seen visually that a large chunk of fraudulent transactions have V3 less than about -1 (intersection of two pdfs) and genuine ones have V3 greater than -1 A more detailed analysis reveals great results with 80% fraudulent transactions having V3 less than -1.67 and 80% genuine ones having V3 more than -1.16, a very good discriminant indeed.

```
In [121]: print(np.percentile(fraudulent['V3'],q=[80]))
          print(np.percentile(genuine['V3'], q=[20]))
```

```
[-1.67891456]
[-1.16267187]
```

```
In [60]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
             .map(sns.distplot, "V4") \
             .add_legend();
```
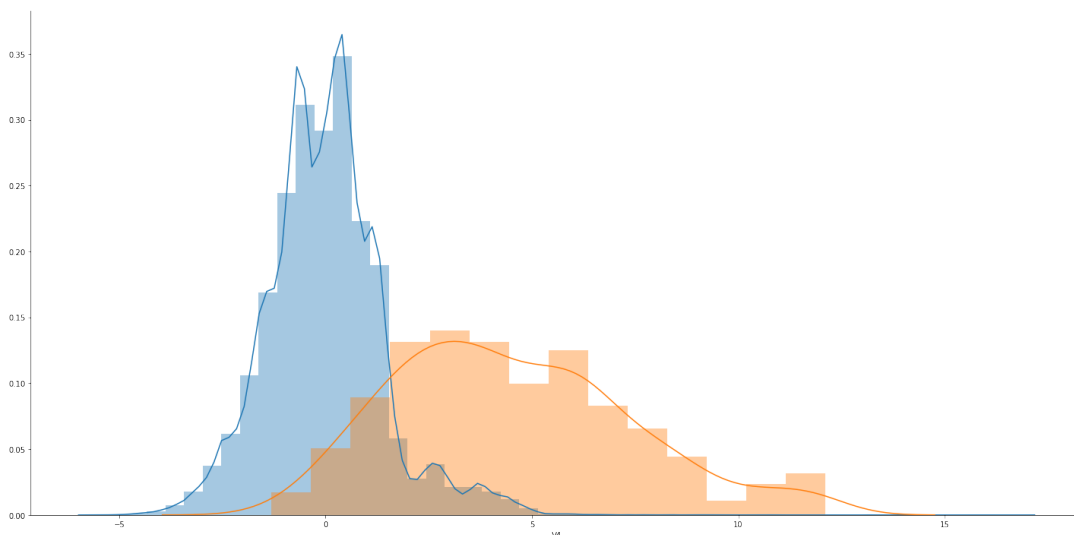
This pretty much resembles V3 and is indeed a great discriminating feature 85% fraudulent transactions have V4 more than 1.6 and 85% genuine transactions have V4 less than 1.2

```
In [126]: print(np.percentile(fraudulent['V4'],q=[15]))
          print(np.percentile(genuine['V4'], q=[85]))

[ 1.60192399]
[ 1.20808306]
```

```
In [61]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
             .map(sns.distplot, "V5") \
             .add_legend();
```
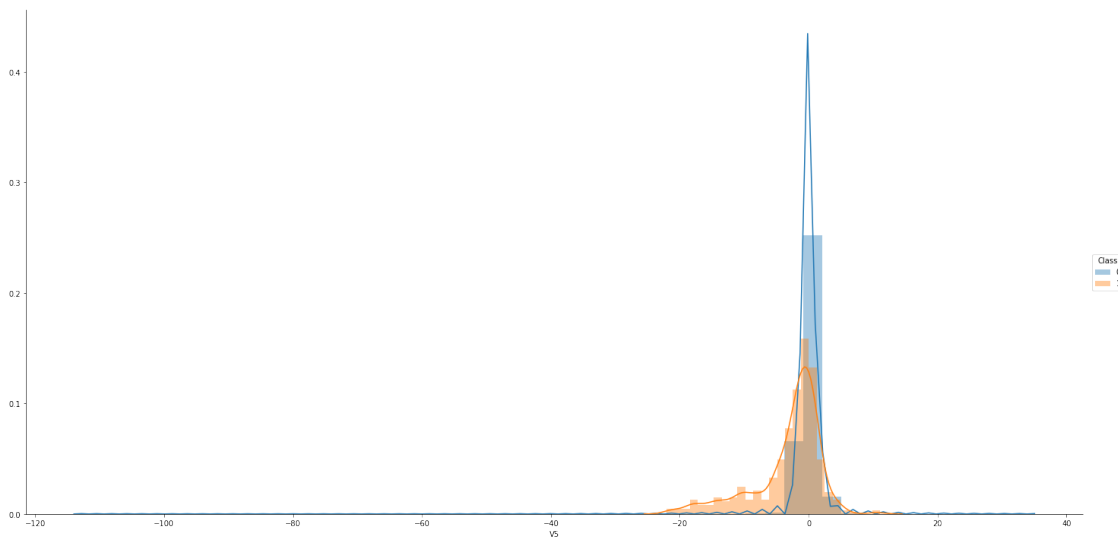

As compared to V4 and V3 this does not seem to be a very good feature 66% fraudulent transactions have V5 less than -0.417 and 66% genuine transactions have V5 more than -0.43

```
In [137]: print(np.percentile(fraudulent['V5'],q=[66]))
          print(np.percentile(genuine['V5'], q=[34]))

[-0.41771202]
[-0.43696705]
```
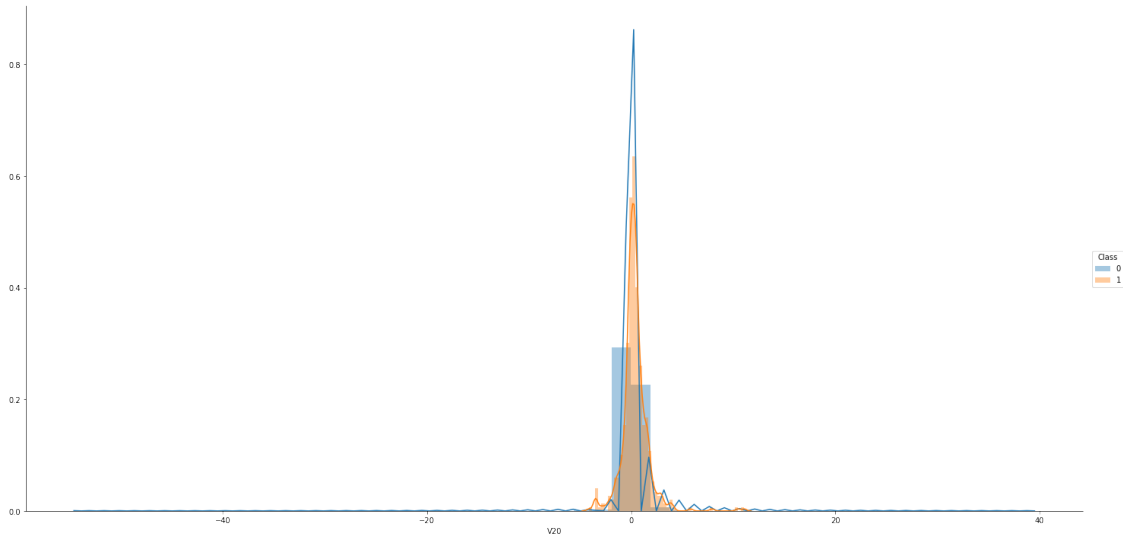
```
In [63]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
             .map(sns.distplot, "V6") \
             .add_legend();
```
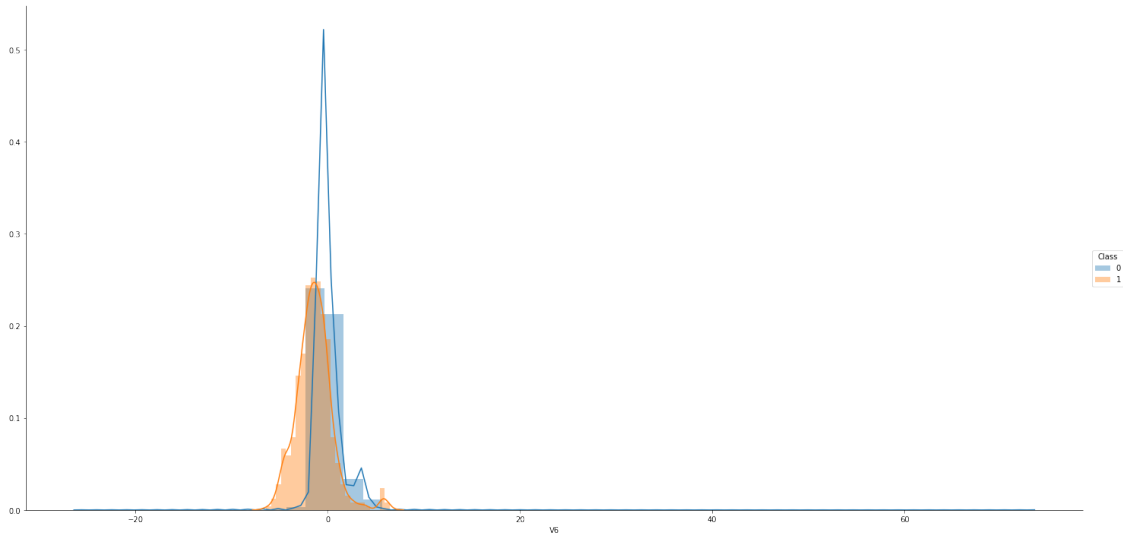
```
In [140]: print(np.percentile(fraudulent['V6'],q=[70]))
          print(np.percentile(genuine['V6'], q=[30]))
```

```
[-0.6244269]
[-0.66644016]
```

This is surely better than V5 as we can see there is a 70% fraudulent distinguished from 70% genuine transactions based on V6

```
In [64]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
             .map(sns.distplot, "V7") \
             .add_legend();
```
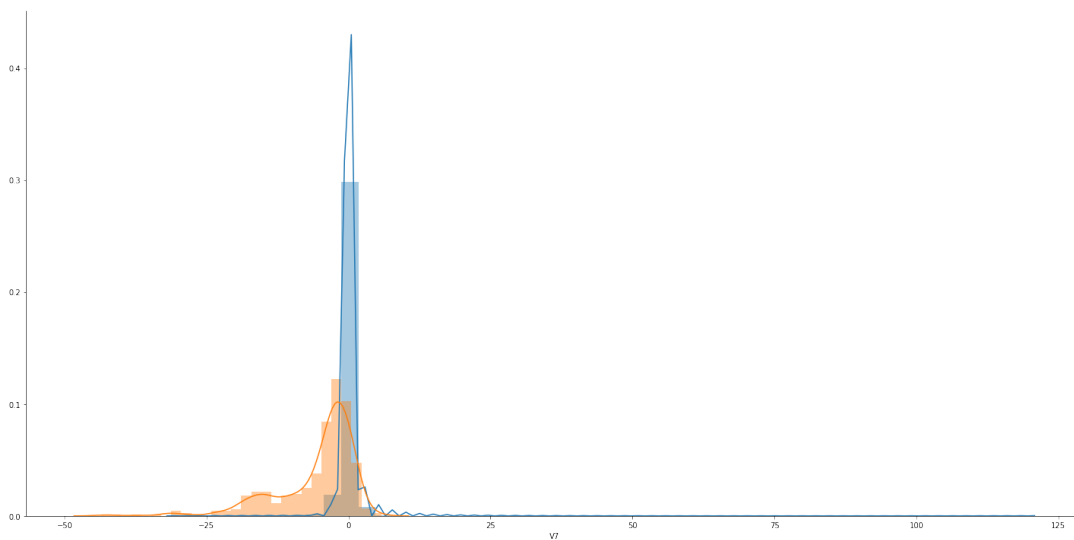
```
In [147]: print(np.percentile(fraudulent['V7'],q=[77]))
          print(np.percentile(genuine['V7'], q=[23]))
```

```
[-0.82341149]
[-0.60213432]
```

This feature is slightly better than V6 offering a 77% classification accuracy

```
In [65]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
             .map(sns.distplot, "V8") \
             .add_legend();
```
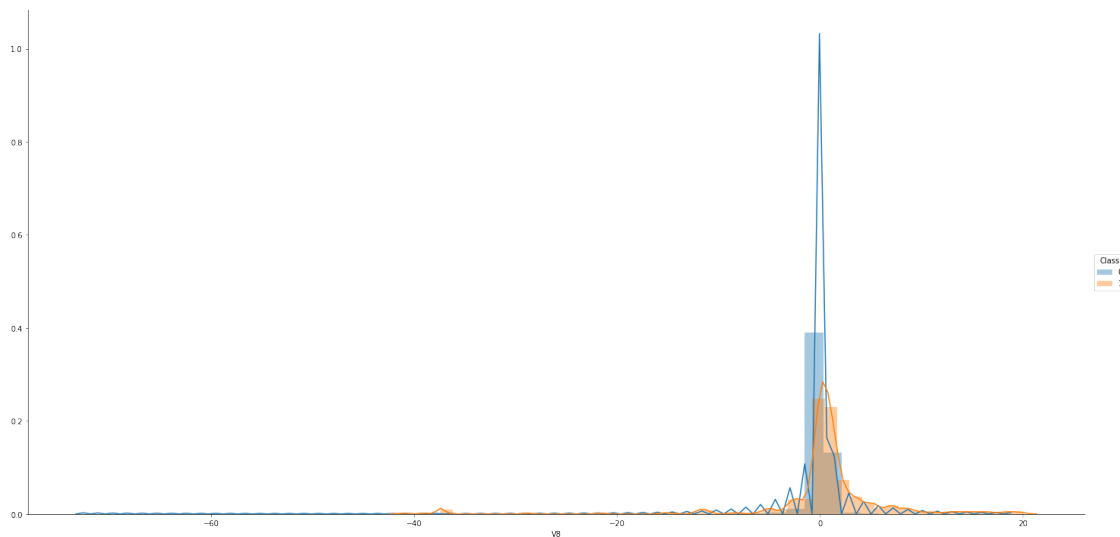


```
In [155]: print(np.percentile(fraudulent['V8'],q=[37]))
          print(np.percentile(genuine['V8'], q=[63]))
```

```
[ 0.1571183]
[ 0.15303342]
```

This feature offers a 63% classification accuracy and hence not a very good choice

```
In [66]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
             .map(sns.distplot, "V9") \
             .add_legend();
```
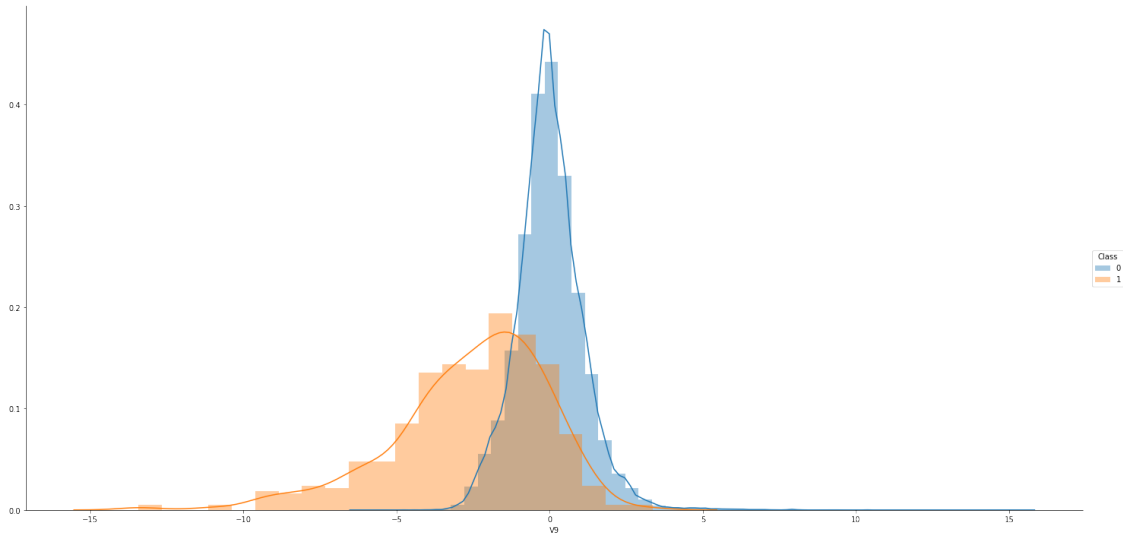
```
In [158]: print(np.percentile(fraudulent['V9'],q=[77]))
          print(np.percentile(genuine['V9'], q=[23]))
```

```
[-0.71721535]
[-0.7035978]
```

This is a fairly good feature offering a 77% classification accuracy

```
In [160]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
              .map(sns.distplot, "V10") \
              .add_legend();
```
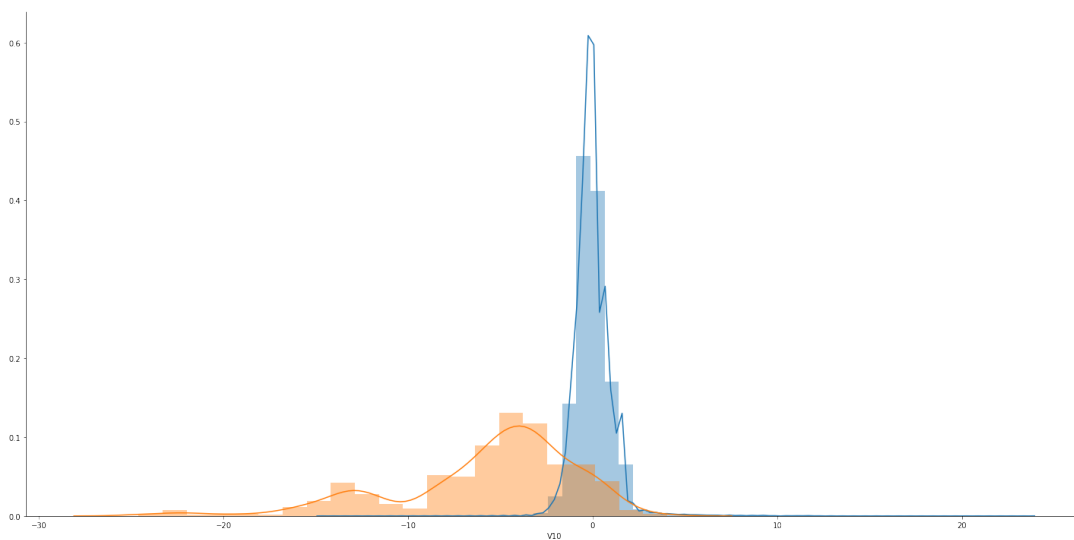
```
In [166]: print(np.percentile(fraudulent['V10'],q=[86]))
          print(np.percentile(genuine['V10'], q=[14]))
```

```
[-0.87019182]
[-0.86167548]
```

Visually one can tell this feature is a great one offering 86% classification accuracy

```
In [68]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
             .map(sns.distplot, "V11") \
             .add_legend();
```
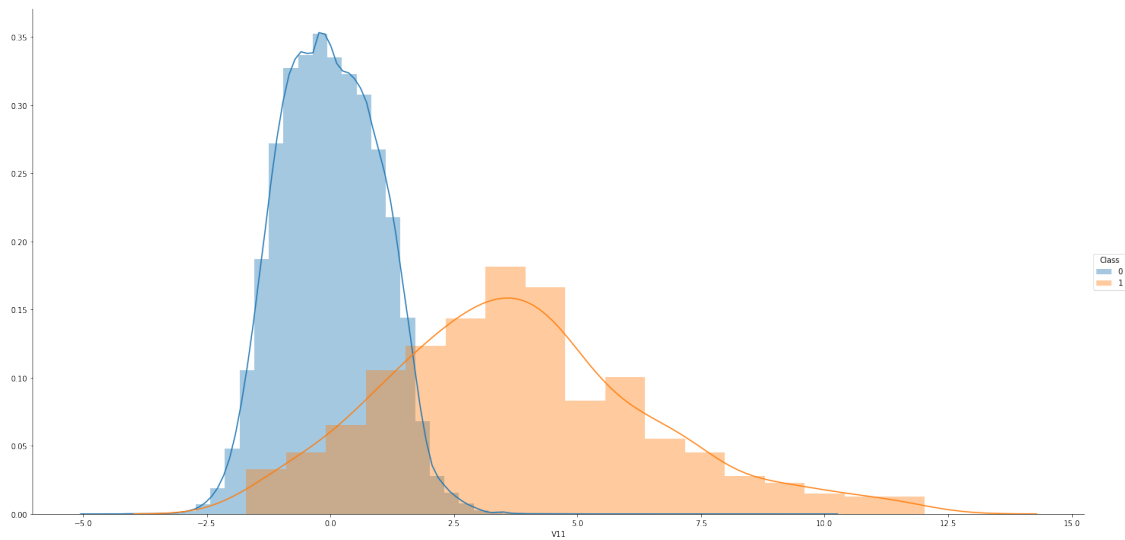


```
In [169]: print(np.percentile(fraudulent['V11'],q=[16]))
          print(np.percentile(genuine['V11'], q=[84]))
```

```
[ 1.17053386]
[ 1.05966576]
```

This is also a great feature offering an 84% accuracy

```
In [69]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
             .map(sns.distplot, "V12") \
             .add_legend();
```
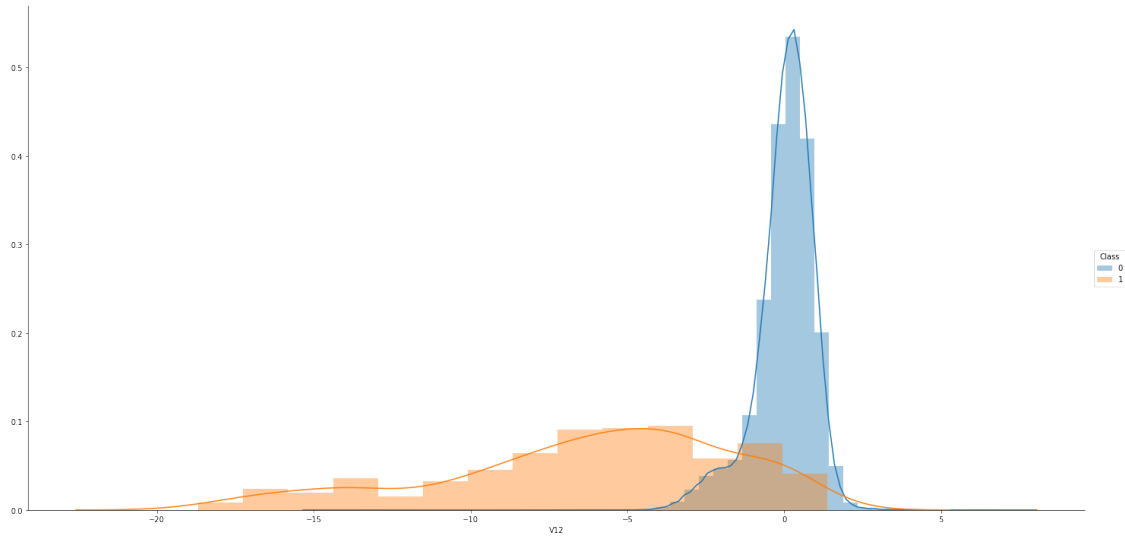
```
In [173]: print(np.percentile(fraudulent['V12'],q=[86]))
          print(np.percentile(genuine['V12'], q=[14]))
```

```
[-0.83130394]
[-0.8352217]
```

This is also a good feature offering roughly 86% accuracy

```
In [70]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
            .map(sns.distplot, "V13") \
            .add_legend();
```
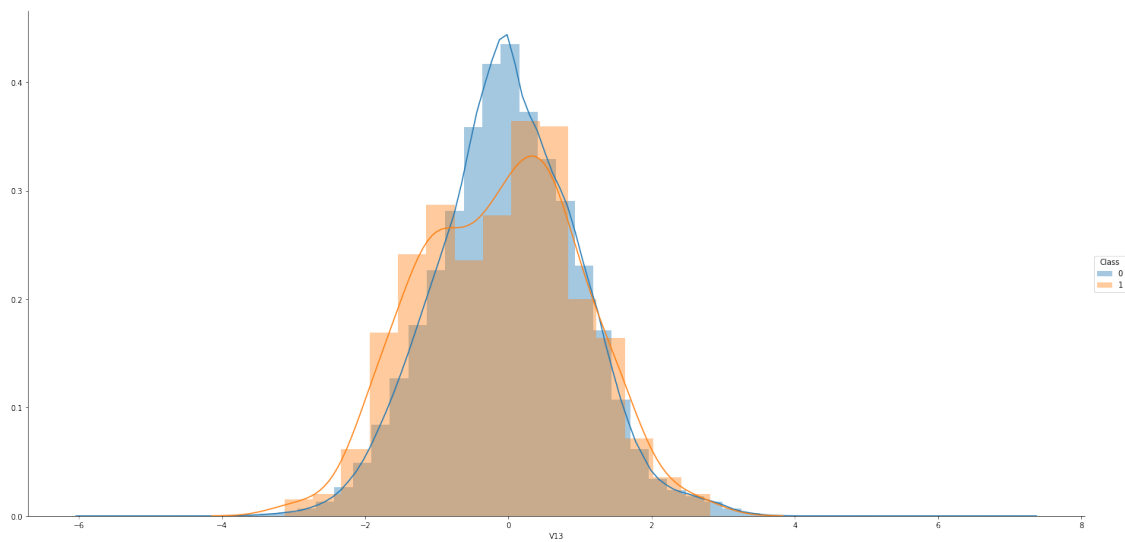
Clearly not a good feature

```
In [71]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
            .map(sns.distplot, "V14") \
            .add_legend();
```
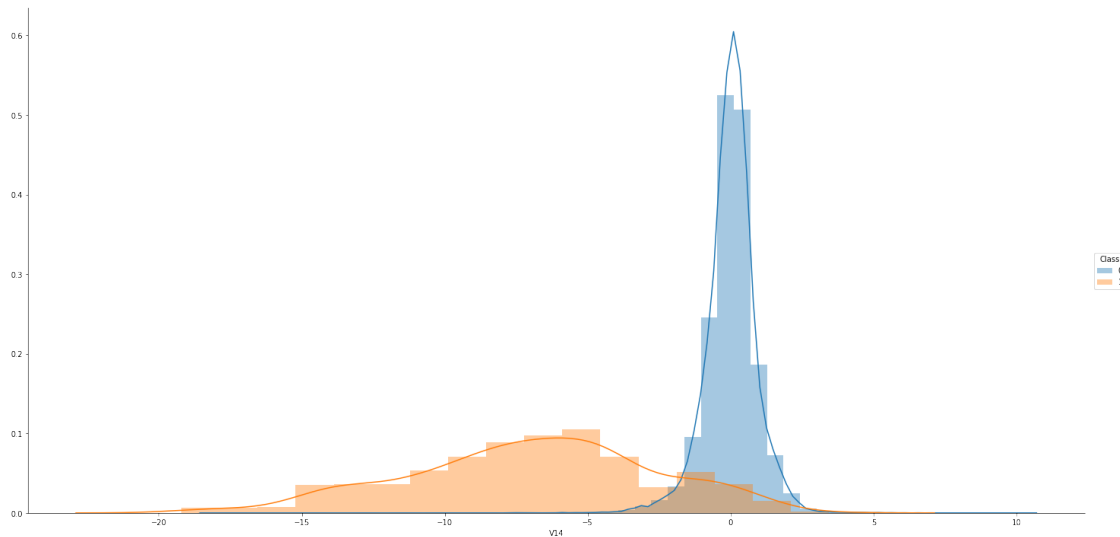


```
In [177]: print(np.percentile(fraudulent['V14'],q=[90]))
            print(np.percentile(genuine['V14'], q=[10]))
```

```
[-1.07836903]
[-0.99523233]
```

An astounding 90% sets this feature apart from others

```
In [72]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
            .map(sns.distplot, "V15") \
            .add_legend();
```
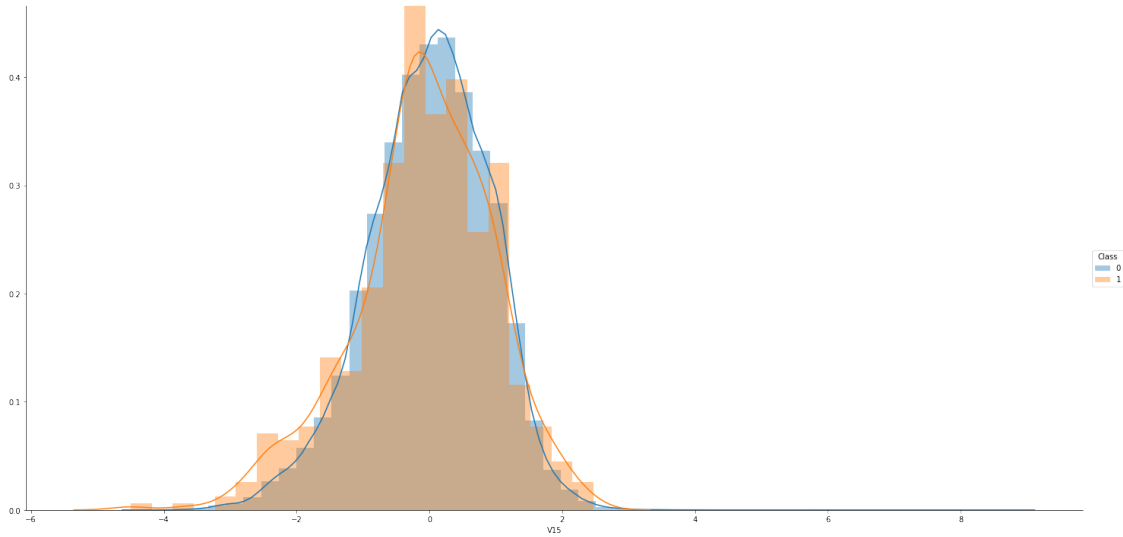
Not a good feature again

```
In [73]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
            .map(sns.distplot, "V16") \
            .add_legend();
```
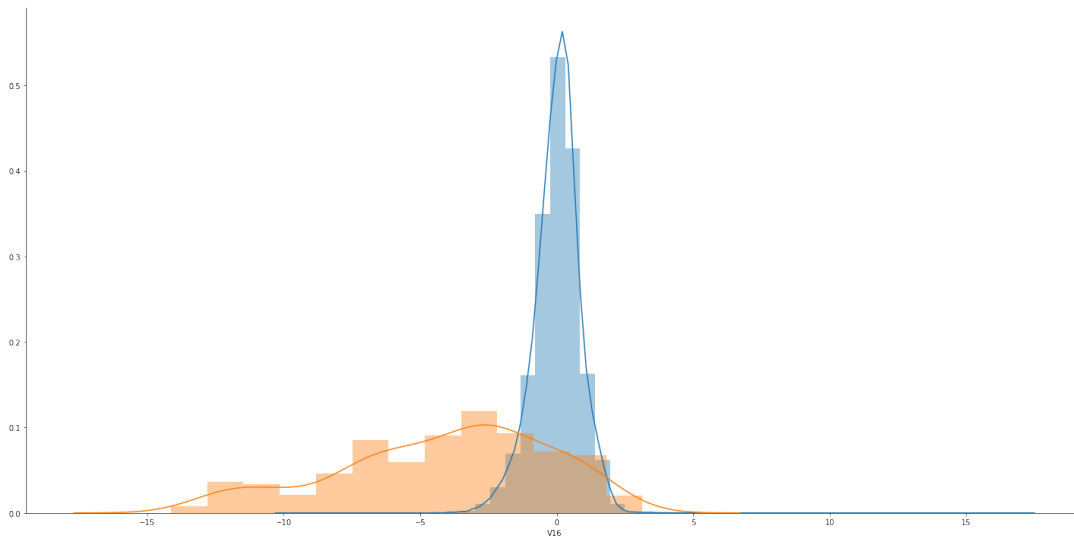


```
In [182]: print(np.percentile(fraudulent['V5'],q=[65]))
          print(np.percentile(genuine['V5'], q=[35]))

[-0.51484326]
[-0.41165364]
```

Fairly good feature with 65% success rate

```
In [74]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
            .map(sns.distplot, "V17") \
            .add_legend();
```
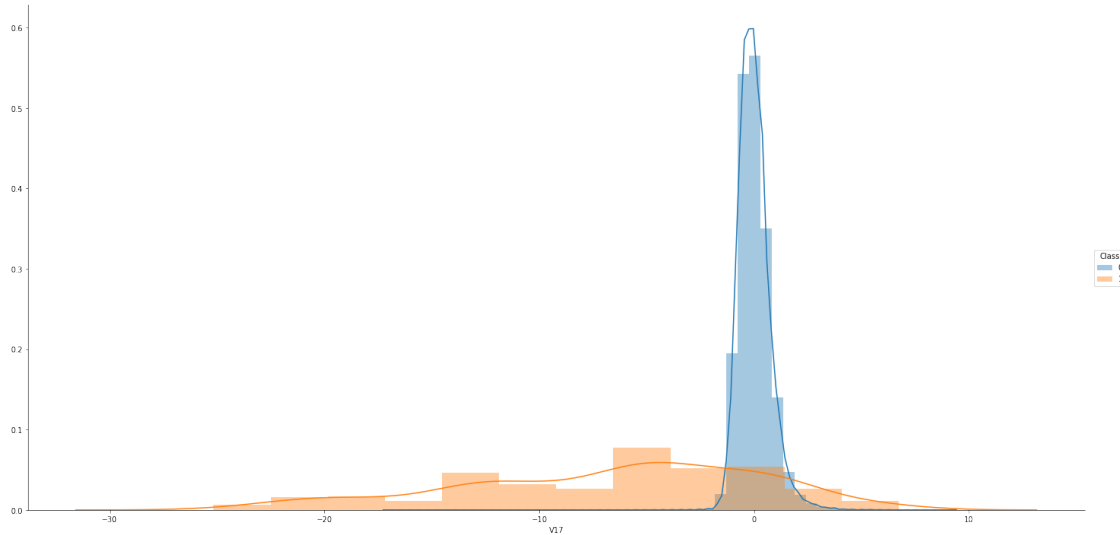


```
In [190]: print(np.percentile(fraudulent['V17'],q=[77]))
            print(np.percentile(genuine['V17'], q=[25,23,75]))
```

```
[-0.78197431]
[-0.48264388 -0.51722041  0.39992239]
```

One noticeable fact about this feature is large percentage of genuine transactions within the inter quartile range of -0.482 to 0.399

```
In [75]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
            .map(sns.distplot, "V18") \
            .add_legend();
```
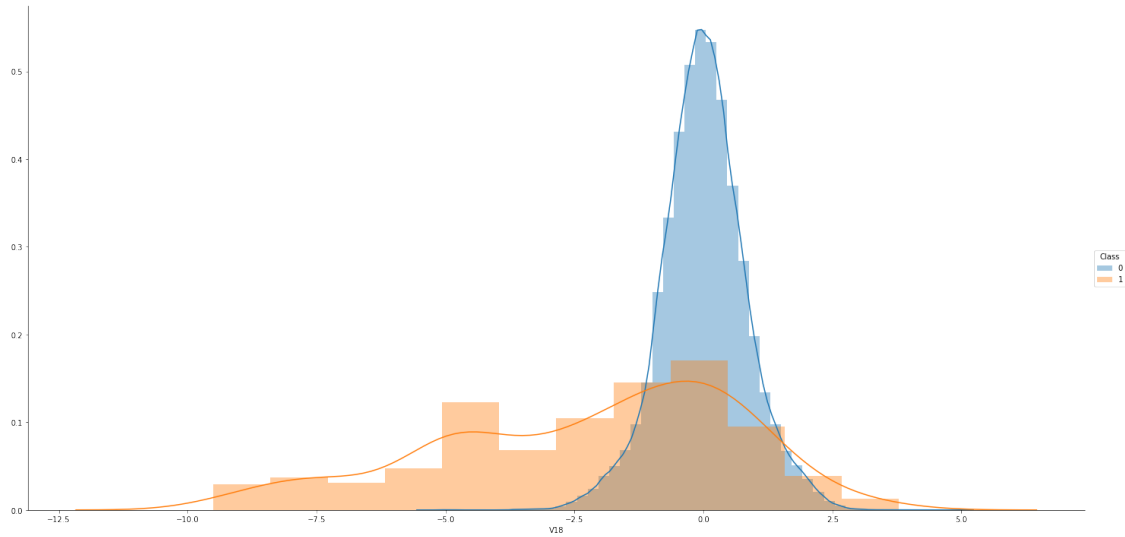
```
In [192]: print(np.percentile(fraudulent['V5'],q=[65]))
          print(np.percentile(genuine['V5'], q=[35]))
```

```
[-0.51484326]
[-0.41165364]
```

Fairly good feature with 65% success rate

```
In [76]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
             .map(sns.distplot, "V19") \
             .add_legend();
```
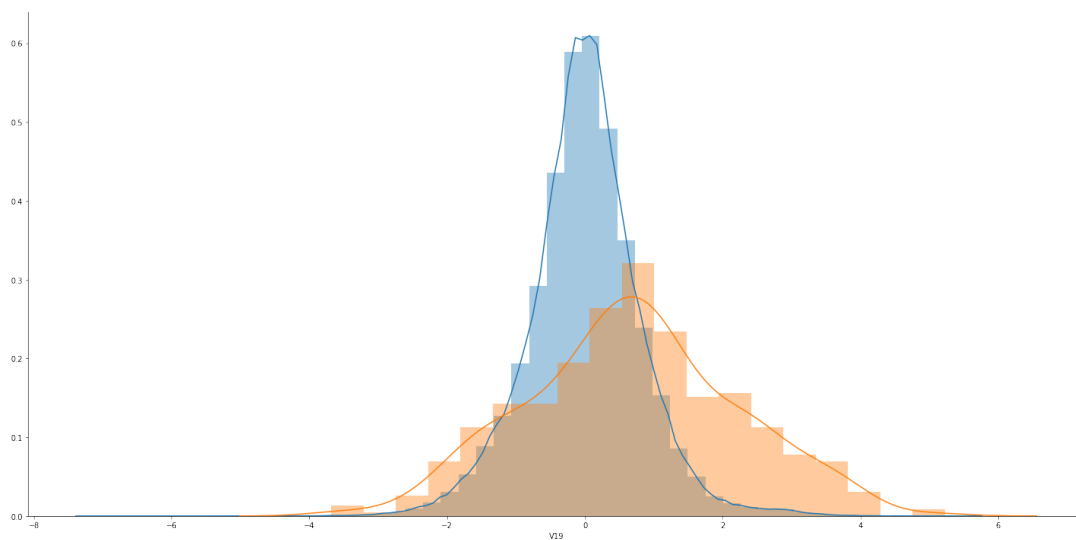
```
In [205]: print(np.percentile(fraudulent['V19'],q=[37]))
          print(np.percentile(genuine['V19'], q=[63]))
```

```
[ 0.23298149]
[ 0.21476089]
```

```
In [77]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
             .map(sns.distplot, "V20") \
             .add_legend();
```


Clearly not a good feature

```
In [78]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
             .map(sns.distplot, "V21") \
             .add_legend();
```
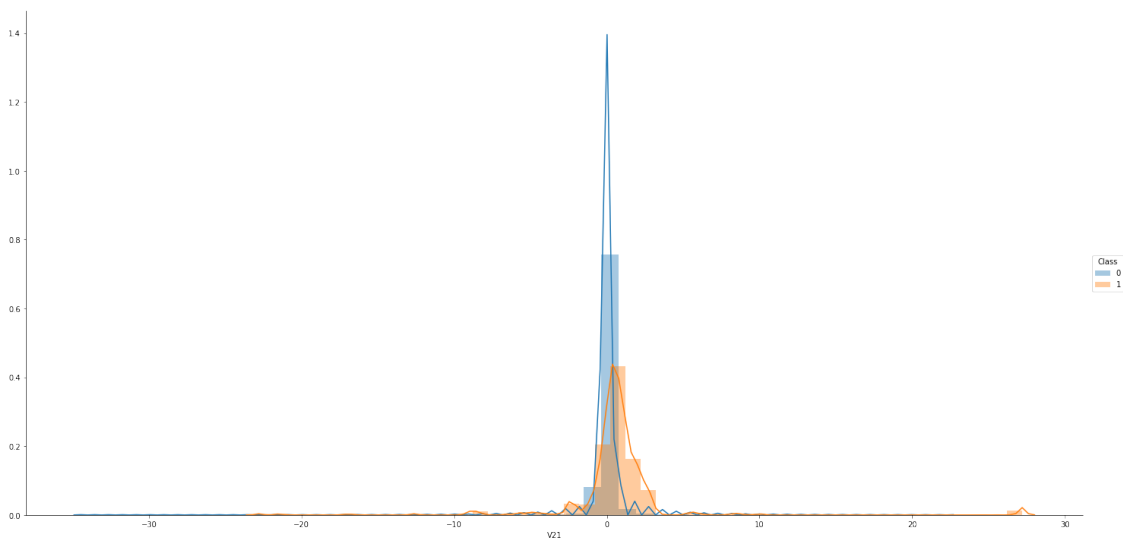
```
In [212]: print(np.percentile(fraudulent['V21'],q=[29]))
          print(np.percentile(genuine['V21'], q=[71]))

[ 0.15203493]
[ 0.14681008]
```

```
In [79]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
             .map(sns.distplot, "V22") \
             .add_legend();
```
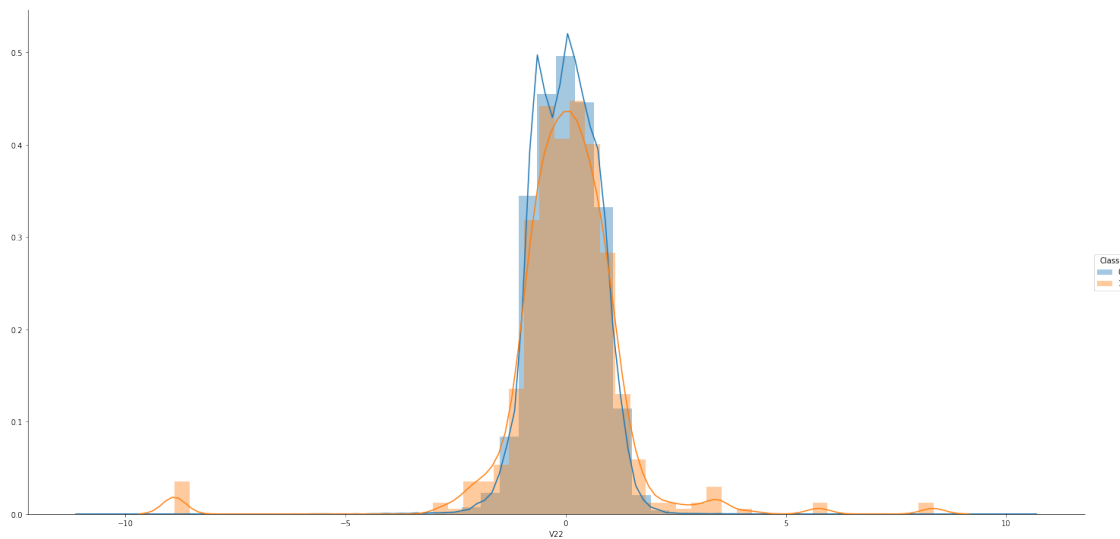

Again not a very good feature

```
In [80]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
             .map(sns.distplot, "V23") \
             .add_legend();
```
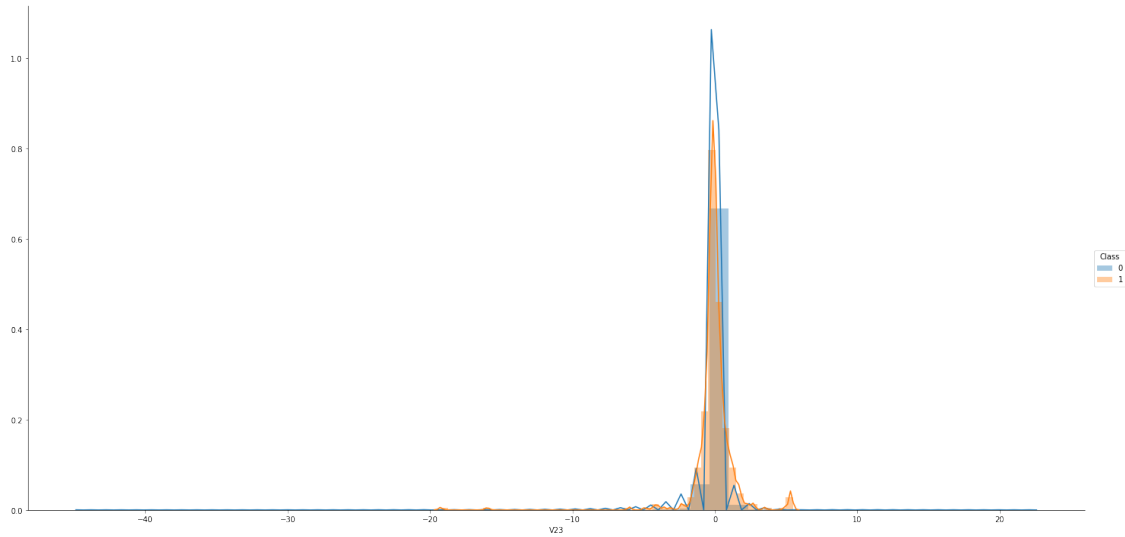
Massive overlap, not a good feature

```
In [81]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
            .map(sns.distplot, "V24") \
            .add_legend();
```
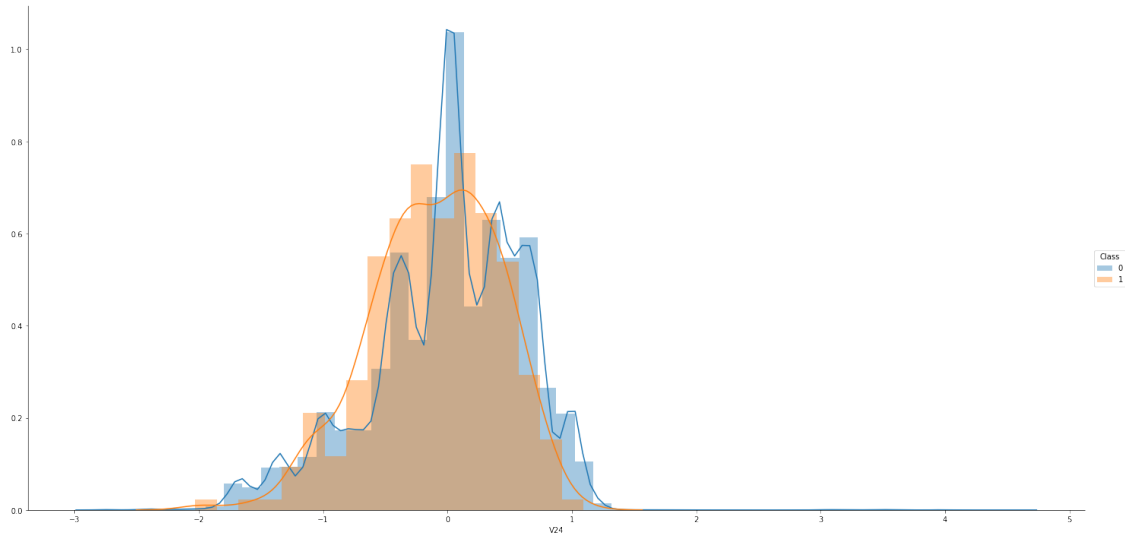

Not a good feature due to overlap

```
In [82]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
            .map(sns.distplot, "V25") \
            .add_legend();
```
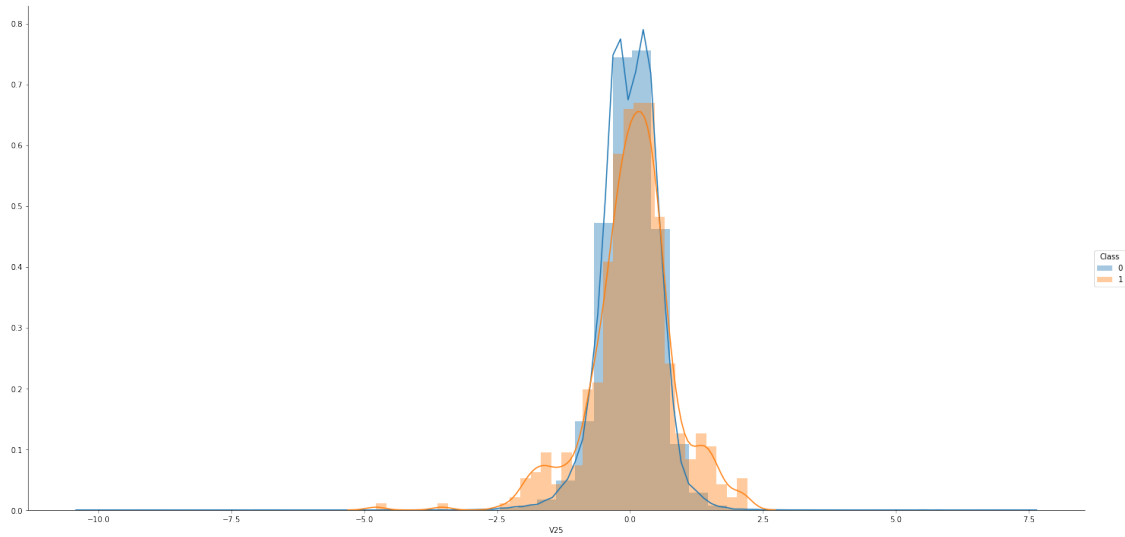
Not a good feature due to overlap

```
In [83]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
            .map(sns.distplot, "V26") \
            .add_legend();
```
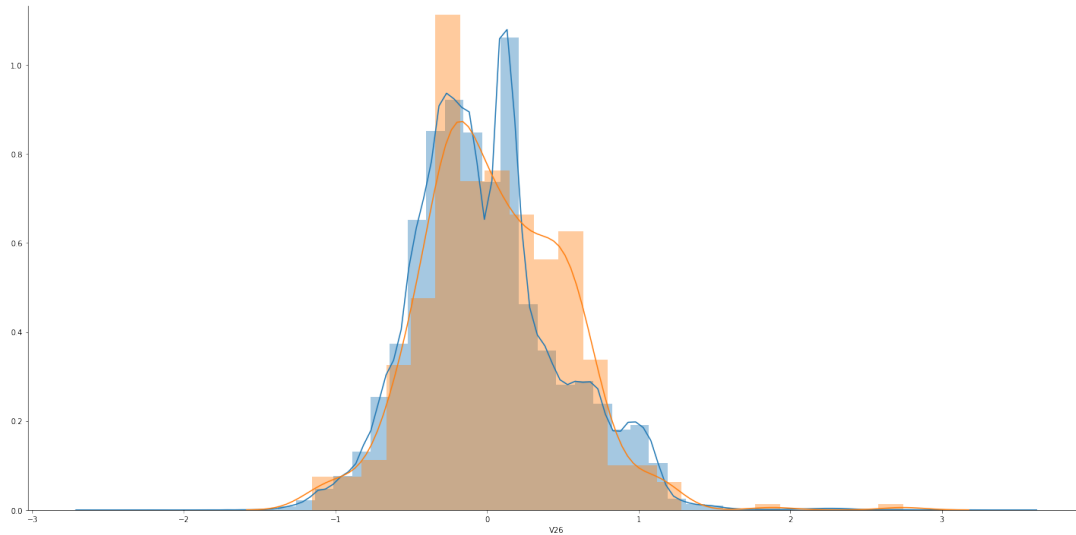

Not a good feature due to overlap

```
In [84]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
            .map(sns.distplot, "V27") \
            .add_legend();
```
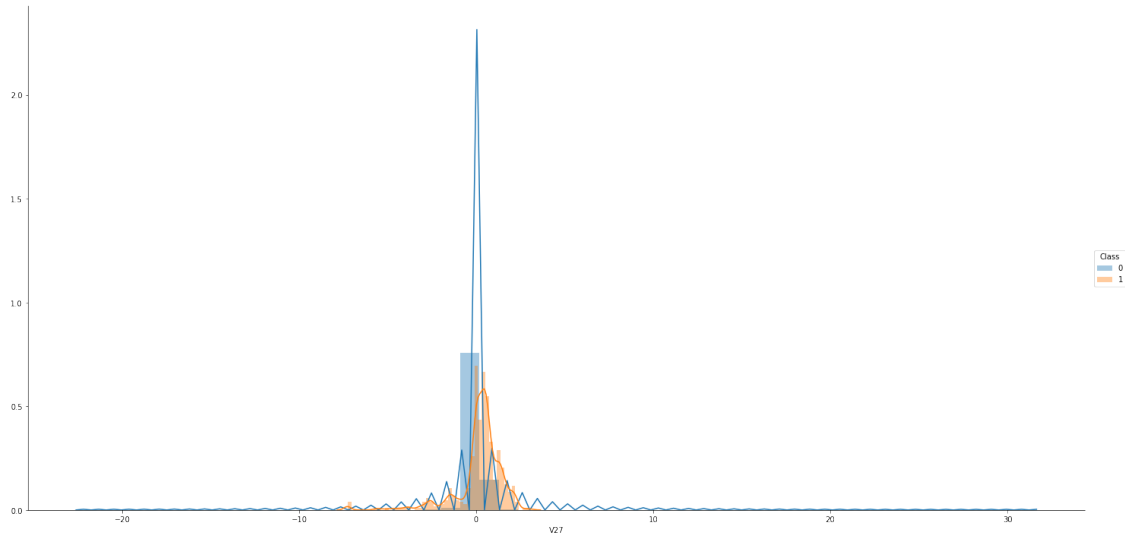
Not a good feature due to overlap

```
In [85]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
            .map(sns.distplot, "V28") \
            .add_legend();
```
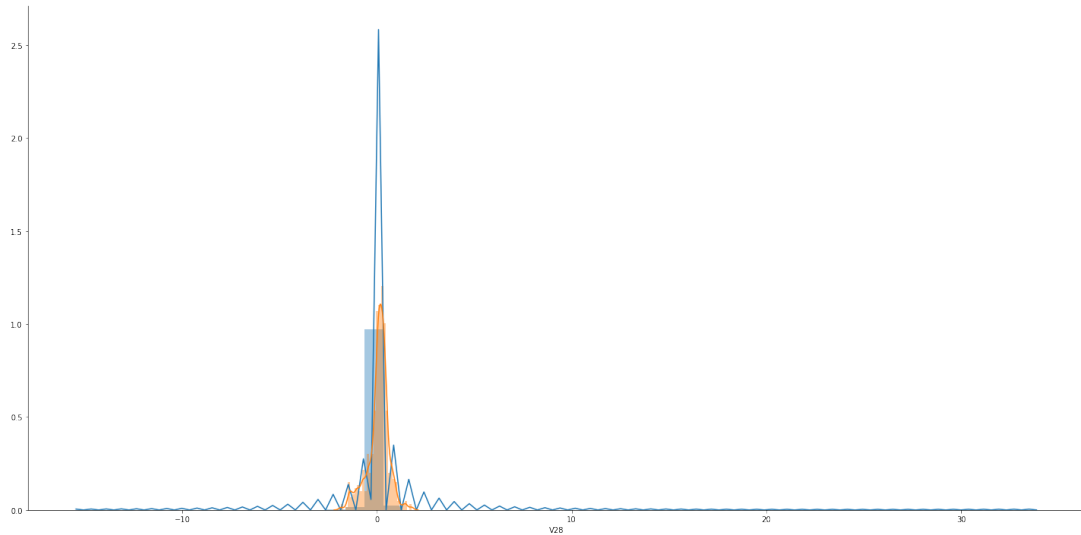

Not a good feature due to overlap

```
In [86]: sns.FacetGrid(df, hue="Class", size=10, aspect=2) \
            .map(sns.distplot, "Amount") \
            .add_legend();
```
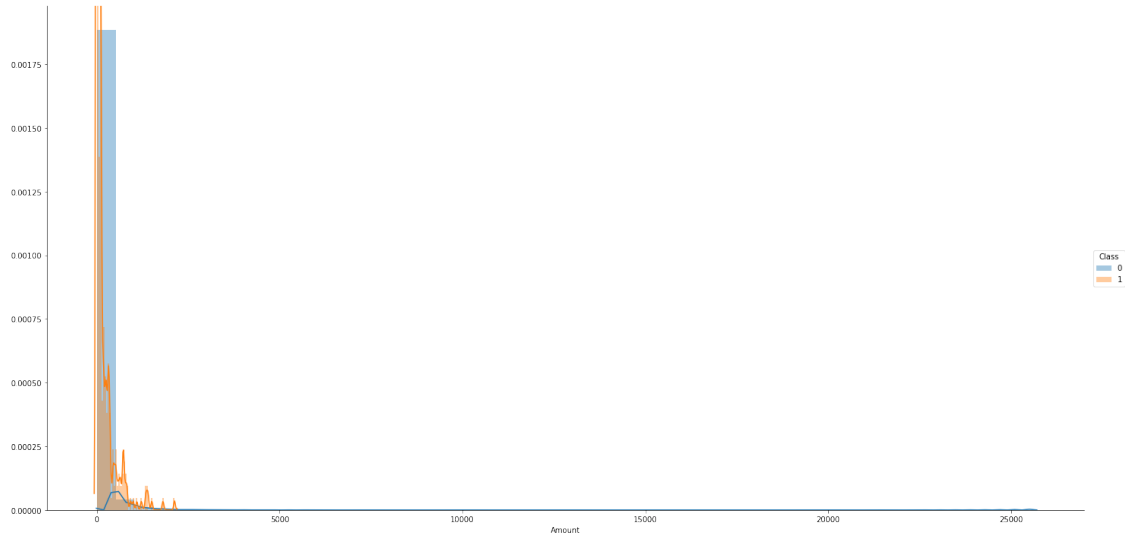
This again is not a good feature due to heavy overlap between 2 pdfs

1.3 List of good features

V14 > V10 > V12 > V4 > V11 > V3 > V2 > V9 > V7 > V6 > V1 > V5

```
In [218]: trans_dict={0:'genuine', 1:'fraudulent'}
          df['Class']=df.Class.apply(lambda x:trans_dict[x])

In [220]: sns.set_style("whitegrid");
          sns.pairplot(df[['Class', 'V14', 'V10', 'V4']], hue="Class", size=5);
```
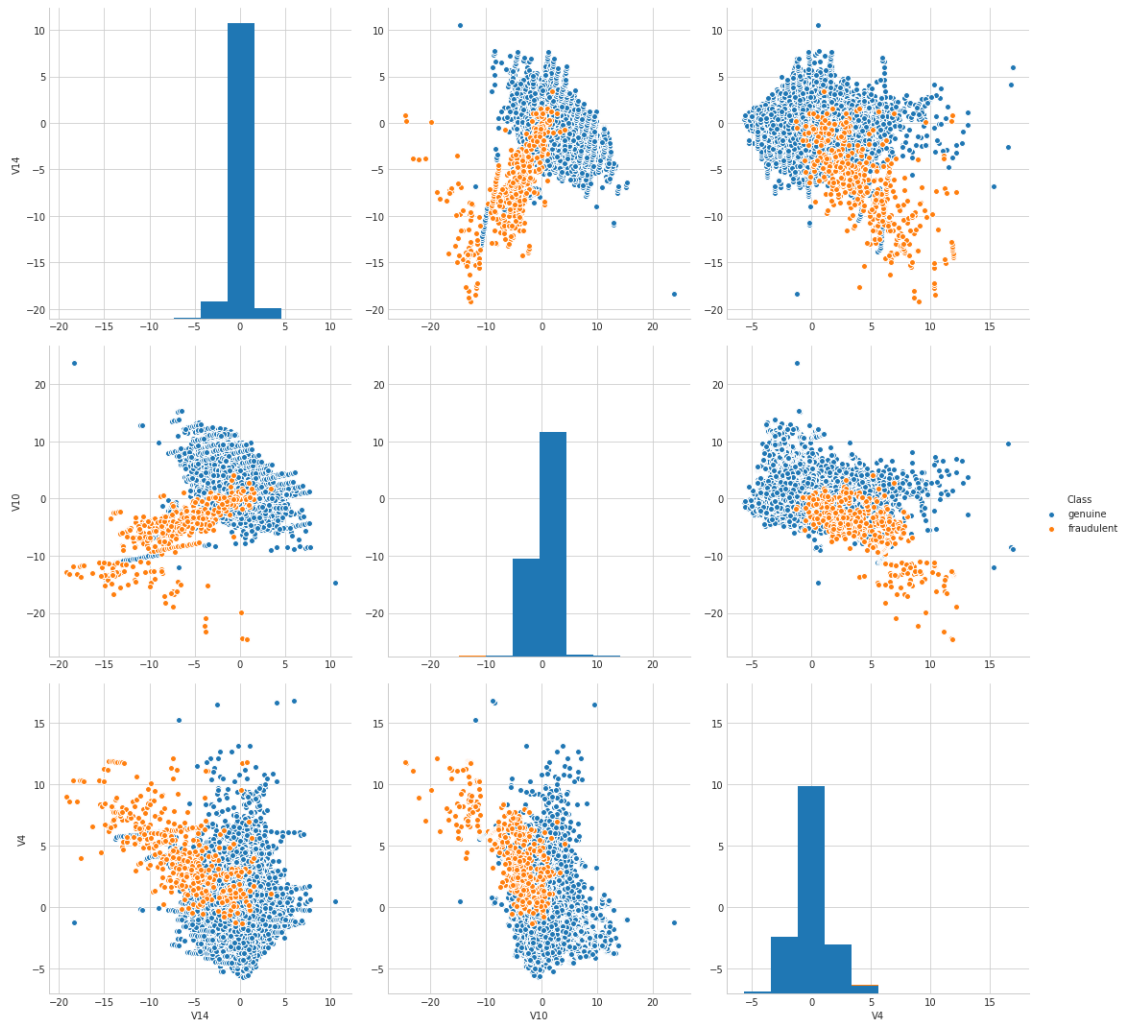
(V14, V10) > (V14, V4) > (V10, V4)

In [221]: sns.pairplot(df[['Class', 'V14', 'V10', 'V12']], hue="Class", size=5);
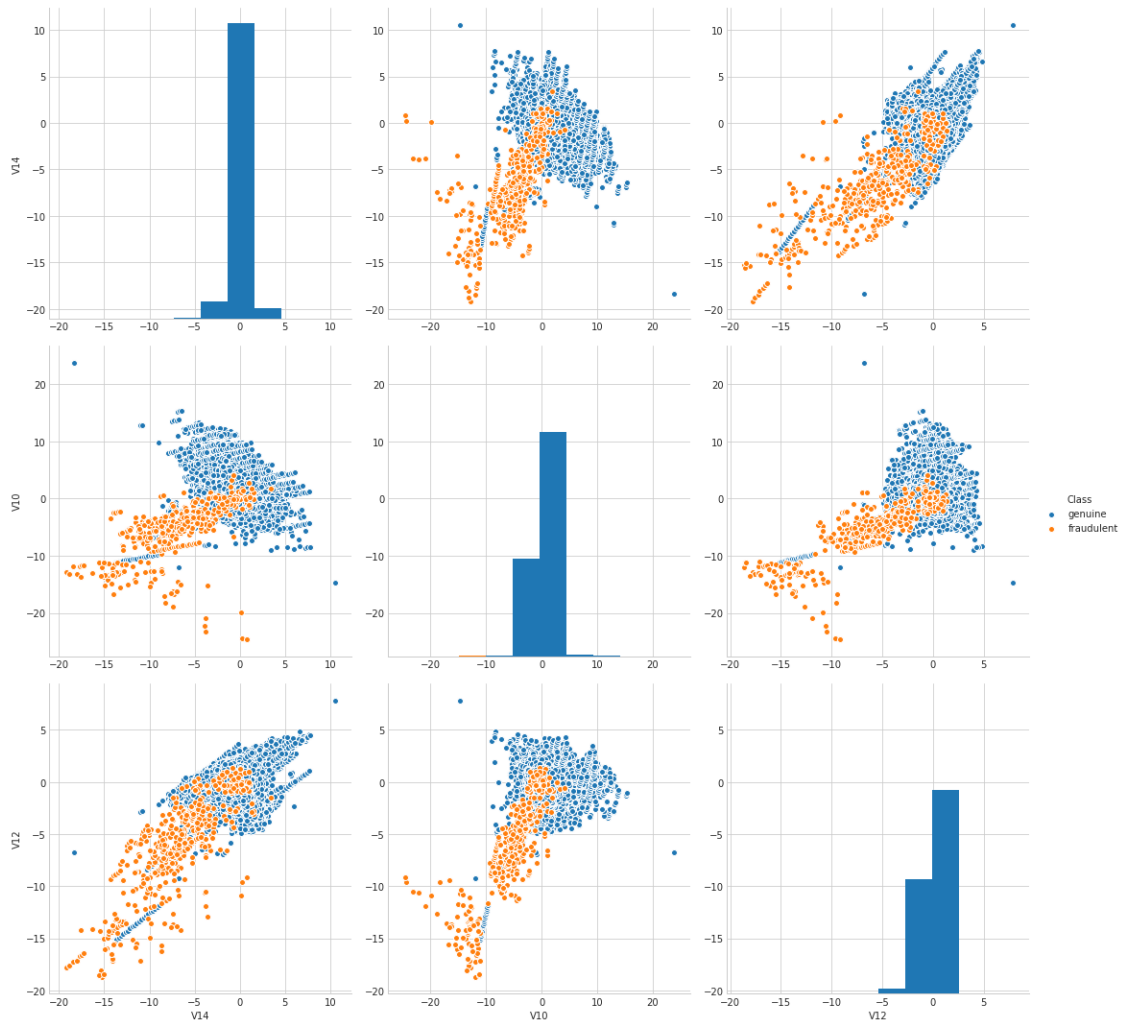
(V14, V10) > (V14, V12) > (V10, V12)

```
In [222]: sns.pairplot(df[['Class', 'V3', 'V12', 'V4']], hue="Class", size=5);
```
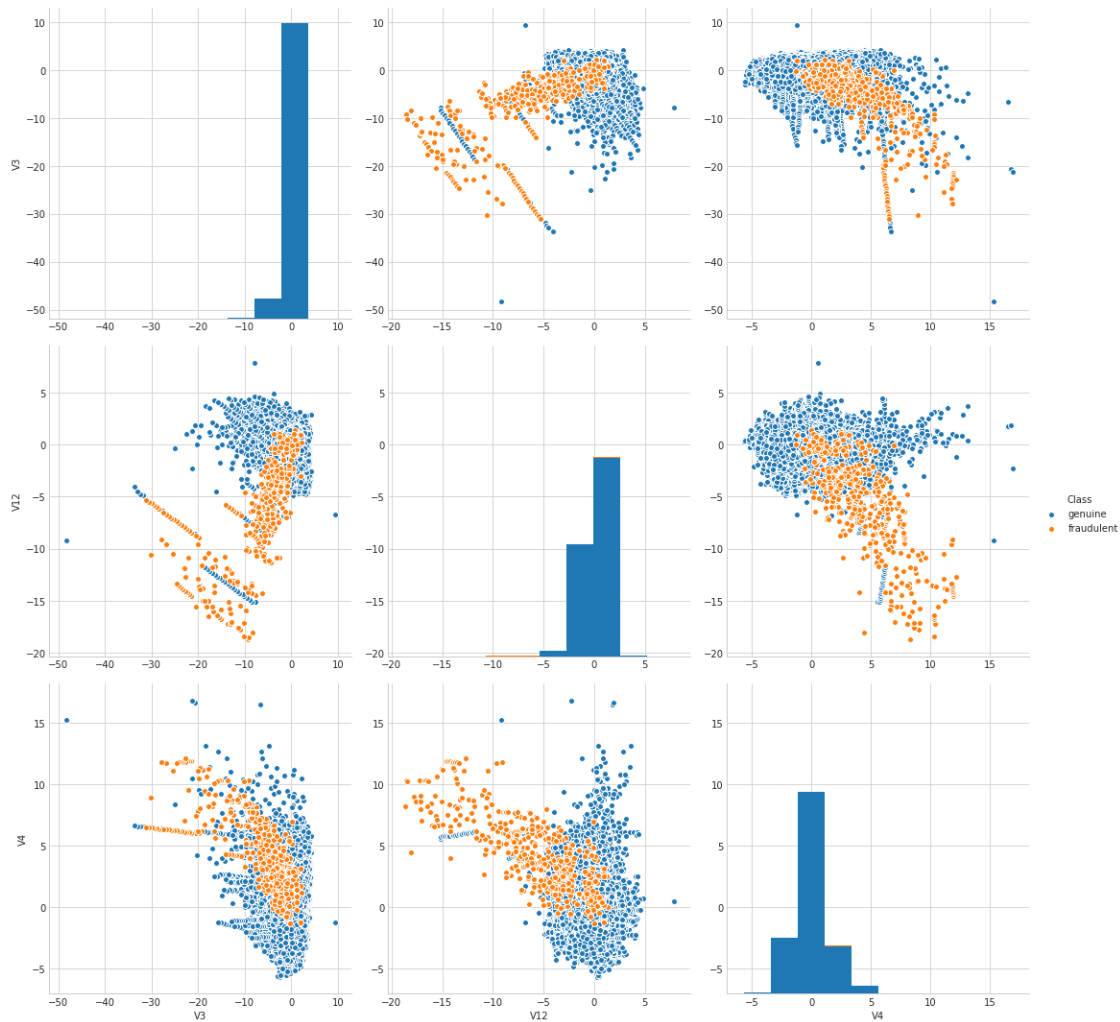
(V12, V3) > (V12, V4) > (V4, V3)

2   Univariate analysis using box plots

Although percentiles have been evaluated before, the best chosen features are evaluated here for better visualisation

```
In [223]: sns.boxplot(x='Class', y='V14', data=df, width=1)

Out[223]: <matplotlib.axes._subplots.AxesSubplot at 0x7fea303a3438>
```
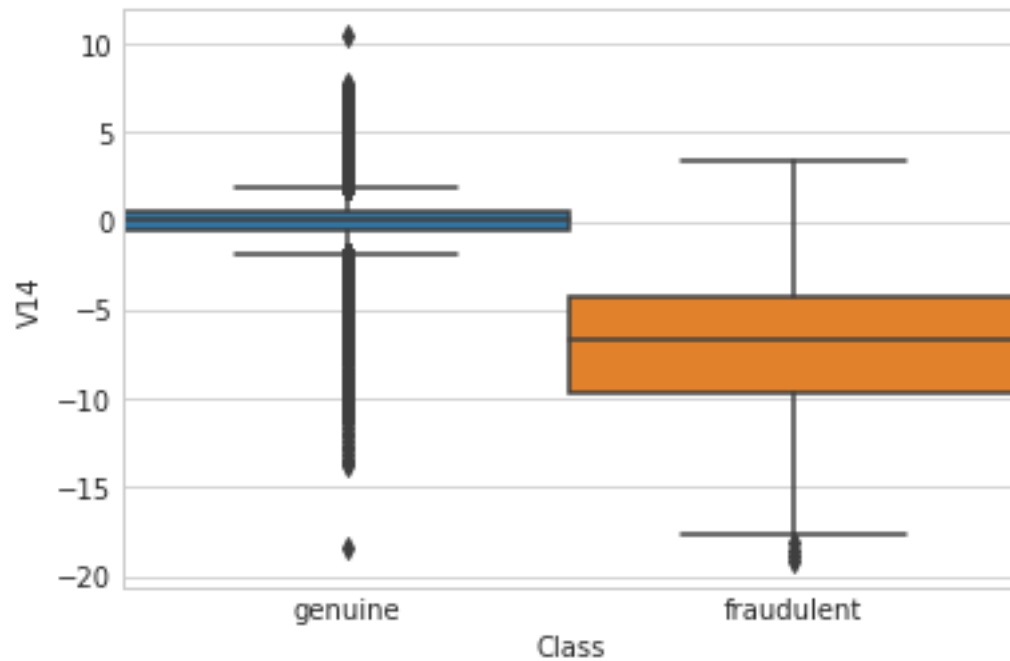
Clearly 75% of fraudulent transactions have V14 less than -4 and 75% of genuine transactions have V14 more than about 0

```
In [224]: sns.boxplot(x='Class', y='V10', data=df, width=1)

Out[224]: <matplotlib.axes._subplots.AxesSubplot at 0x7fea30a14f28>
```
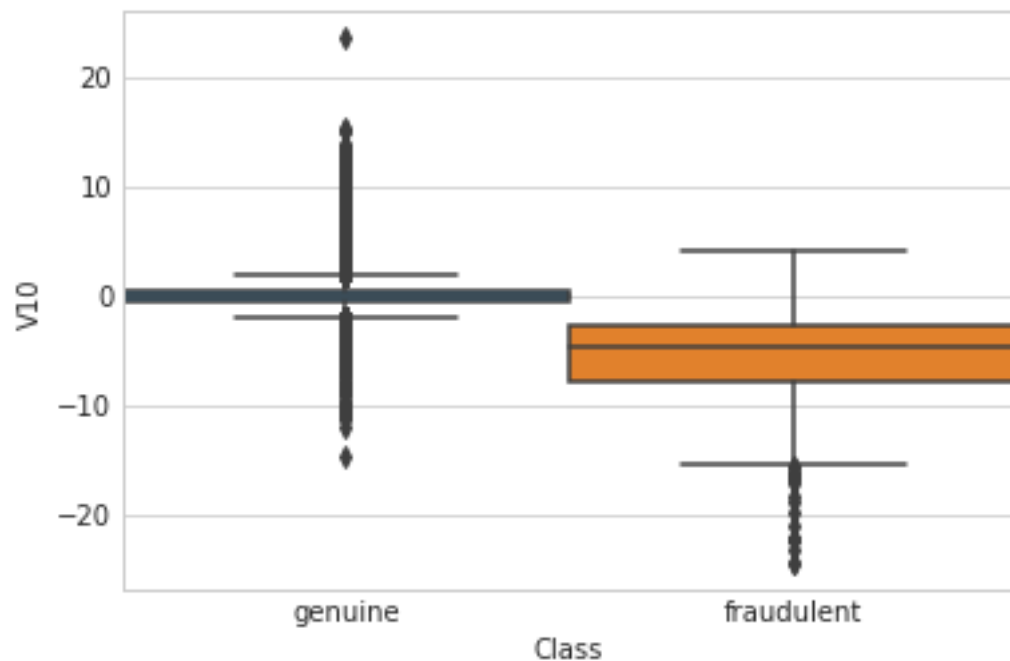
Similar trend can be observed for V10

```
In [225]: sns.boxplot(x='Class', y='V12', data=df, width=1)

Out[225]: <matplotlib.axes._subplots.AxesSubplot at 0x7fea30959b38>
```
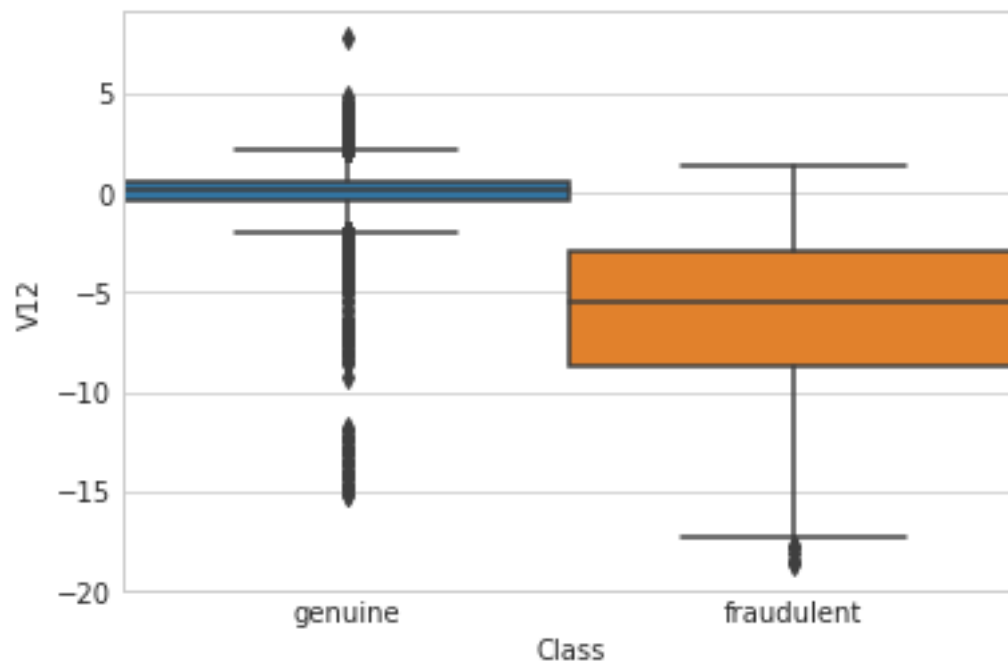
and V12

```
In [226]: sns.boxplot(x='Class', y='V14', data=df, width=1)

Out[226]: <matplotlib.axes._subplots.AxesSubplot at 0x7fea30957860>
```
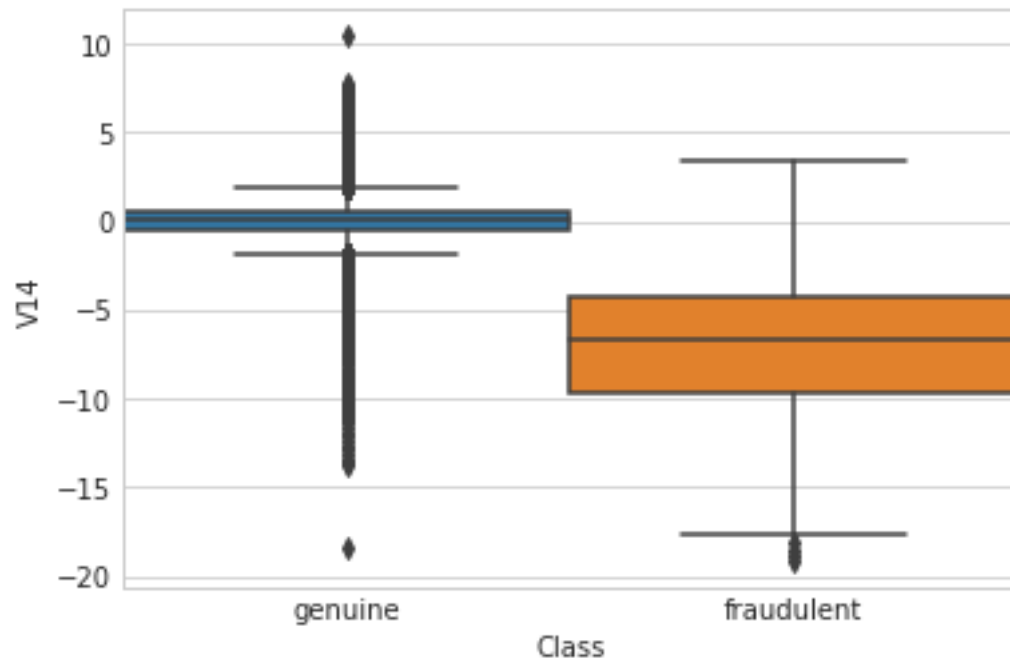
In [227]: sns.boxplot(x='Class', y='V11', data=df, width=1)

Out[227]: <matplotlib.axes._subplots.AxesSubplot at 0x7fea30424f28>
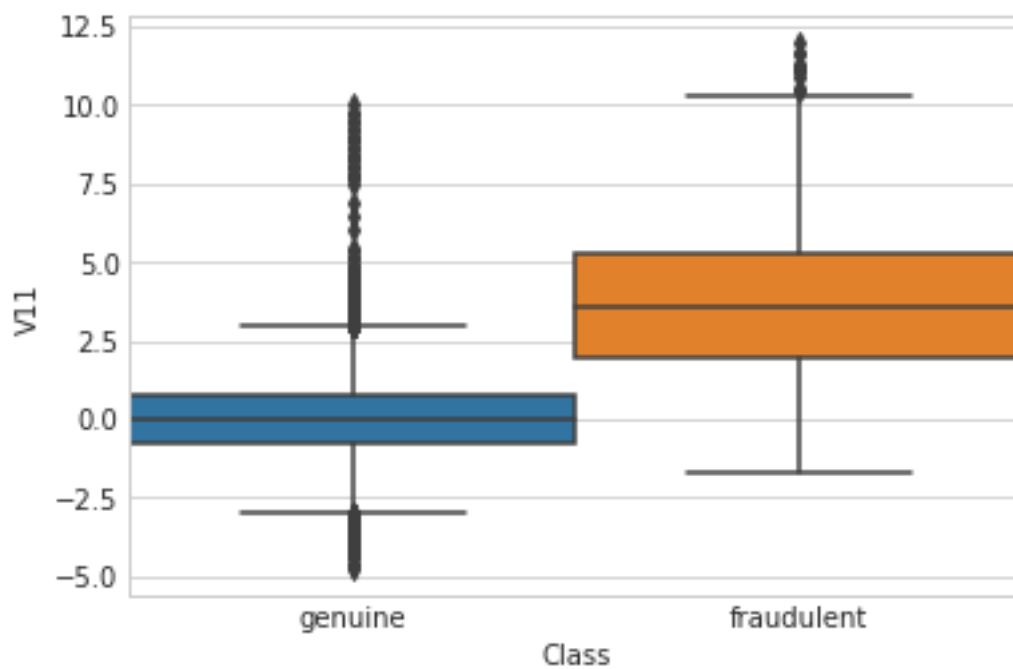
More than 75% fraudulent transactions have V11 above 2.4 whereas more than 75% genuine transactions have V11 below 2.3

```
In [229]: sns.boxplot(x='Class', y='V3', data=df, width=1)
```

```
Out[229]: <matplotlib.axes._subplots.AxesSubplot at 0x7fea2e806780>
```
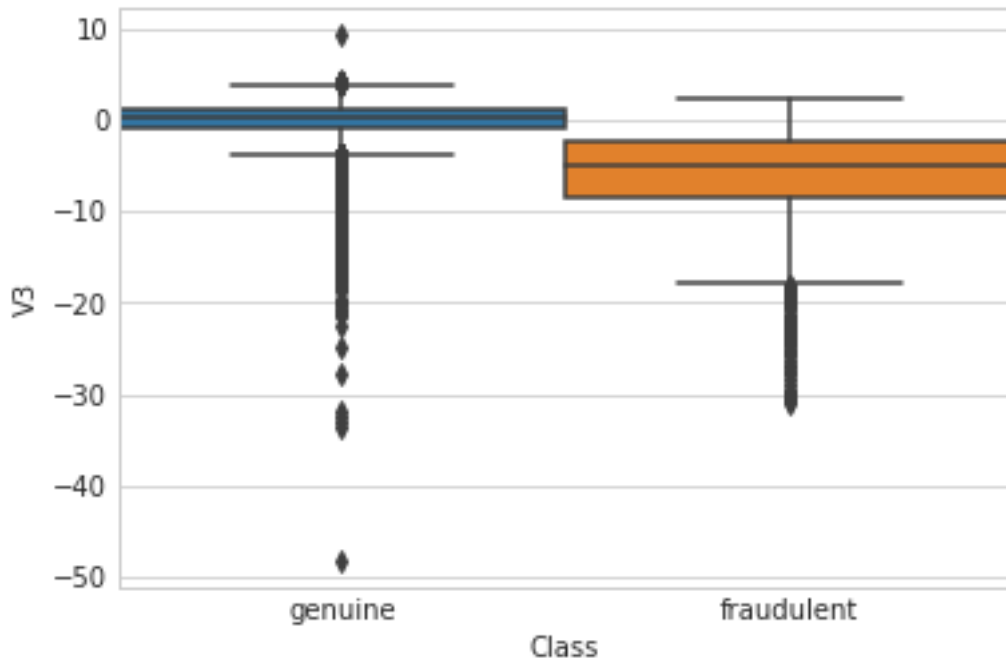


```
In [230]: sns.boxplot(x='Class', y='V2', data=df, width=1)
```
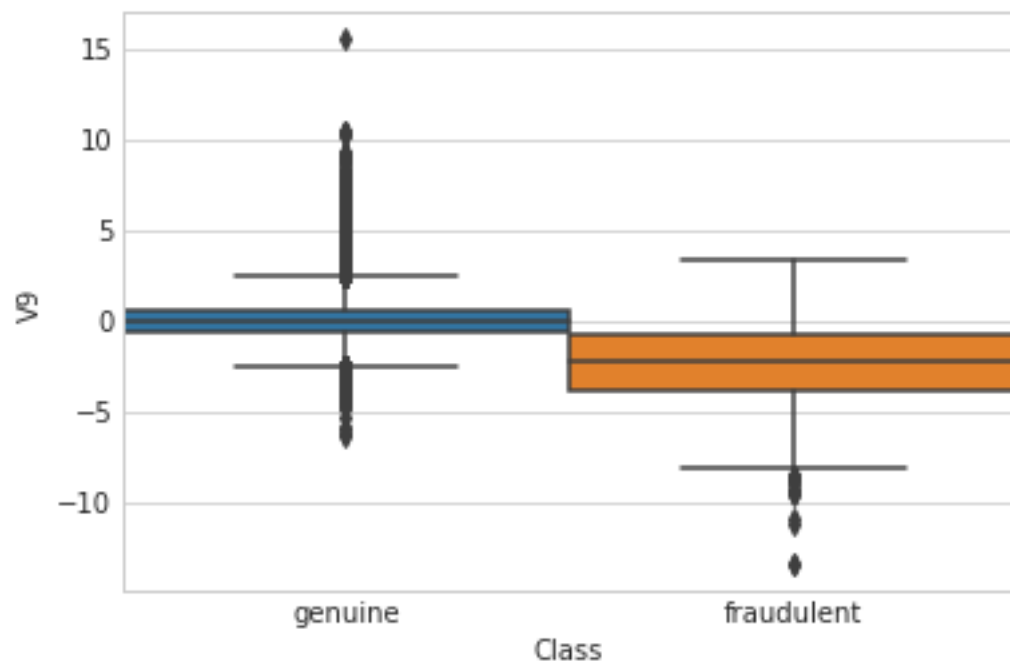
```
Out[230]: <matplotlib.axes._subplots.AxesSubplot at 0x7fea3c360ba8>
```
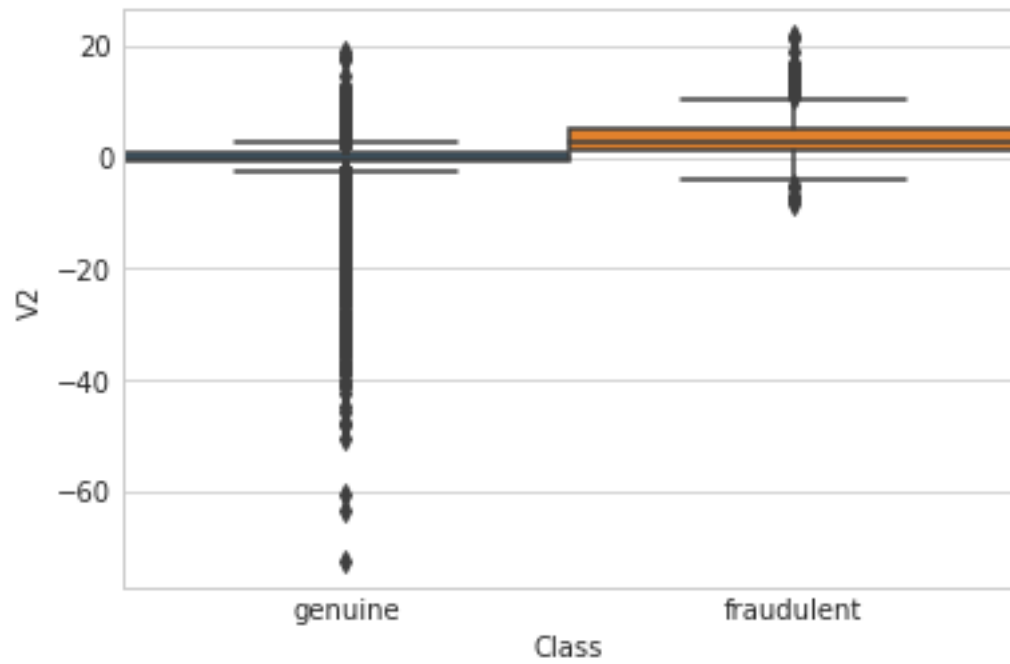
Similar trend as V11

```
In [231]: sns.boxplot(x='Class', y='V9', data=df, width=1)

Out[231]: <matplotlib.axes._subplots.AxesSubplot at 0x7fea2eac9908>
```
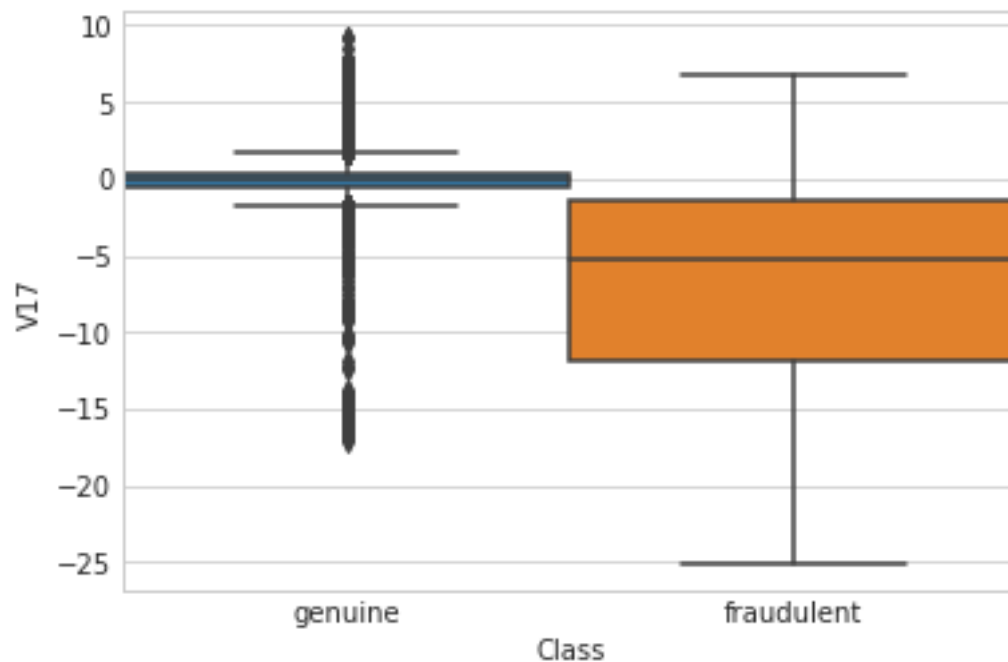
We can observe that moving down the order of relevance of features brings 25% value of one class closer to 75% value of the other

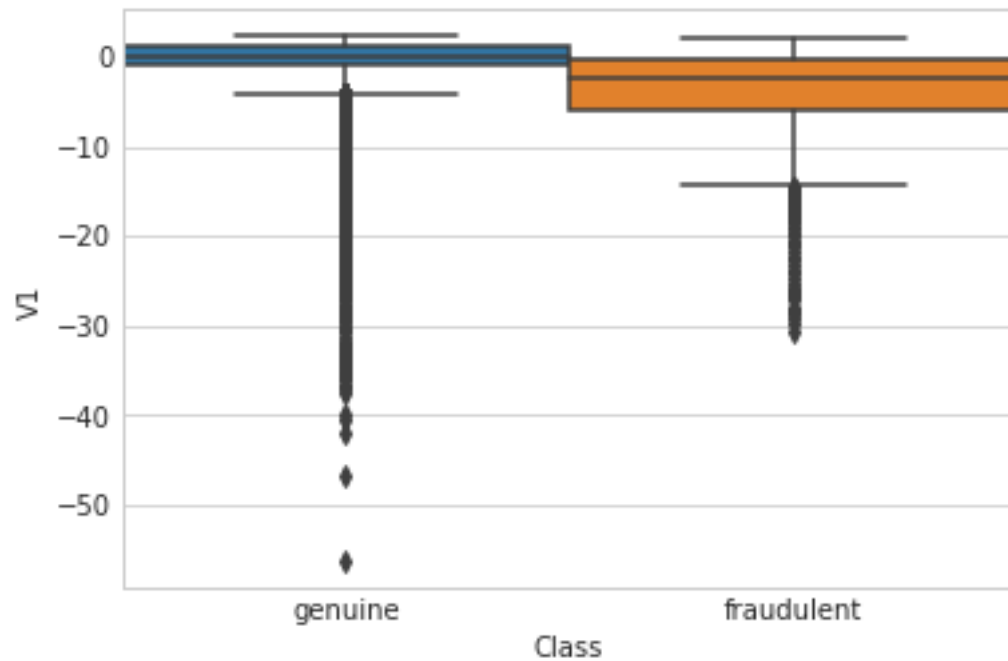In [232]: `sns.boxplot(x='Class', y='V17', data=df, width=1)`

Out[232]: `<matplotlib.axes._subplots.AxesSubplot at 0x7fea2ea162b0>`

Although it wasn't evident from pdf, box plots reveal that V17 separates 2 classes better than V9

In [240]: `sns.boxplot(x='Class', y='V1', data=df, width=1)`

Out[240]: `<matplotlib.axes._subplots.AxesSubplot at 0x7fea3b122ba8>`

3   Conclusion

The best 12 features have been enumerated for classification. Although it seems intuitive that transaction amount should count towards a valuable feature, it does not