## EDA\_frequent\_patterns

November 8, 2021

## 0.1 EDA: Association Rule Mining using Frequent Pattern Growth Algorithm

- An association rule has the form LHS (left-hand side) => RHS (right-hand side)
- LHS U RHS is called an itemset
- The "support" or prevalence of the rule is the frequency of occurrence of an itemset in a dataset/database for it to be considered a "frequent itemset" or a "frequent pattern".
- The "confidence" or strength of the rule = support(LHS U RHS)/support(LHS). Or the probability that the items in RHS will occur given that the items in LHS have occured.
- Here, support threshold is set at 1000, and confidence threshold is set at 0.8.

```
[82]: #install and import necessary libraries
!pip install pyfpgrowth
import os
import pyfpgrowth
import pandas as pd
```

Requirement already satisfied: pyfpgrowth in /usr/local/lib/python3.7/dist-packages (1.0)

```
[83]: #Import Drive API and authenticate
from google.colab import drive
#Mount Drive to the Colab VM
drive.mount('/content/drive')
```

Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force\_remount=True).

```
[84]: #Load the dataset into pandas DataFrame

df = pd.read_csv("/content/drive/MyDrive/Capstone_project/v2_credit_default.

→csv")
```

```
[86]: # turn off chain assignment warning for the next cell
     pd.options.mode.chained_assignment = None # default='warn'
[87]: # Renaming some of the columns so it's easier to understand association rules
     df2['SEX'] = df2['SEX'].replace({ 1: 'Male', 2: 'Female'})
     df2['EDUCATION'] = df2['EDUCATION'].replace({1:'Graduate School', 2:
      →'University', 3:'High School', 4:'Others'})
     df2['MARRIAGE'] = df2['MARRIAGE'].replace({1:'Married', 2:'Single', 3:'Others'})
     df2['Repay_Apr'] = df2['Repay_Apr'].replace({-2:'Apr_not_used', -1:
      →'Apr_duly_payment', 0:'Apr_revolving_credit', 1: 'Apr_late_1month', 2:⊔
      →'Apr_late_2months', 3: 'Apr_late_3months', 4: 'Apr_late_4months', 5:
      \hookrightarrow 'Apr_late_5months', 6: 'Apr_late_6months', 7: 'Apr_late_7months', 8:_{\sqcup}
      df2['Repay_May'] = df2['Repay_May'].replace({-2:'May_not_used', -1:
      → 'May_duly_payment', 0: 'May_revolving_credit', 1: 'May_late_1month', 2:⊔

¬'May_late_2months', 3: 'May_late_3months', 4: 'May_late_4months', 5:
□

¬'May_late_5months', 6: 'May_late_6months', 7: 'May_late_7months', 8:
□
      df2['Repay_June'] = df2['Repay_June'].replace({-2:'June_not_used', -1:
      →'June_duly_payment', 0:'June_revolving_credit', 1: 'June_late_1month', 2:⊔
      →'June_late_2months', 3: 'June_late_3months', 4: 'June_late_4months', 5:⊔
      _{\hookrightarrow}'June_late_5months', 6: 'June_late_6months', 7: 'June_late_7months', 8:_{\sqcup}

    June_late_8months'
})
     df2['Repay_July'] = df2['Repay_July'].replace({-2:'July_not_used', -1:
      _{\rightarrow}'July_duly_payment', 0:'July_revolving_credit', 1: 'July_late_1month', 2:_ _{\sqcup}
      →'July_late_2months', 3: 'July_late_3months', 4: 'July_late_4months', 5:⊔
      →'July_late_5months', 6: 'July_late_6months', 7: 'July_late_7months', 8:⊔

    July_late_8months'
})
     df2['Repay_Aug'] = df2['Repay_Aug'].replace({-2:'Aug_not_used', -1:
      →'Aug_duly_payment', 0:'Aug_revolving_credit', 1: 'Aug_late_1month', 2:□

¬'Aug_late_2months', 3: 'Aug_late_3months', 4: 'Aug_late_4months', 5:
□
      →'Aug_late_5months', 6: 'Aug_late_6months', 7: 'Aug_late_7months', 8:
      df2['Repay_Sept'] = df2['Repay_Sept'].replace({-2:'Sept_not_used', -1:
      →'Sept_duly_payment', 0:'Sept_revolving_credit', 1: 'Sept_late_1month', 2:
      \hookrightarrow 'Sept_late_2months', 3: 'Sept_late_3months', 4: 'Sept_late_4months', 5:_{\sqcup}
      df2['Default'] = df2['Default'].replace({ 0: 'no_default', 1: 'default'})
[88]: | ## Convert df2 to list of lists, and look at the first 2 lists (first 2 rows).
     df2_list = df2.values.tolist()
     print(df2_list[0:2])
     [['Female', 'University', 'Married', 'Sept_late_2months', 'Aug_late_2months',
     'July_duly_payment', 'June_duly_payment', 'May_not_used', 'Apr_not_used',
     'default'], ['Female', 'University', 'Single', 'Sept_duly_payment',
```

## Some interesting association rules picked from the association rules below:

• ['Apr\_not\_used', 'Aug\_not\_used', 'Female', 'July\_not\_used', 'June\_not\_used', 'May\_not\_used', 'Sept\_not\_used'] -> ['no\_default'] 0.8676880222841226

~87% of females that are not using their credit in the previous 6 months are non-defaulters. This is expected. \* ['Apr\_revolving\_credit', 'July\_revolving\_credit', 'June\_revolving\_credit', 'Male', 'May\_revolving\_credit', 'University'] -> ['no\_default'] 0.8115758343895226

~81% of males with Bachelor's degree that are using their revolving credit from April to July are non-defaulters. \* ['Apr\_revolving\_credit', 'Female', 'July\_revolving\_credit', 'June\_revolving\_credit', 'Married', 'May\_revolving\_credit', 'University'] -> ['no\_default'] 0.8515881708652793

~85% of married females that are using their revolving credit from April to July are non-defaulters.

```
['Aug_late_2months', 'July_late_2months', 'May_late_2months'] -->
['June_late_2months'] 0.9617097061442564
['Aug_late_2months', 'June_late_2months', 'May_late_2months'] -->
['July_late_2months'] 0.9694793536804309
['Apr_late_2months', 'July_late_2months', 'June_late_2months'] -->
['May_late_2months'] 0.9496021220159151
['Apr_late_2months', 'July_late_2months', 'May_late_2months'] -->
['June_late_2months'] 0.9572192513368984
['Apr_late_2months', 'June_late_2months', 'May_late_2months'] -->
['July_late_2months'] 0.8014925373134328
['Apr_late_2months', 'June_late_2months'] --> ['May_late_2months'] 0.9403508771929825
['July_late_2months', 'Sept_late_2months'] --> ['Aug_late_2months'] 0.9367396593673966
```

```
['June_revolving_credit', 'Sept_late_2months'] --> ['May_revolving_credit']
0.8841033672670321
['May_revolving_credit', 'Sept_late_2months'] --> ['Apr_revolving_credit']
0.8527298850574713
['Apr revolving credit', 'Sept late 2months'] --> ['May revolving credit']
0.8539568345323741
['June_not_used', 'Sept_not_used', 'Single'] --> ['Aug_not_used',
'July_not_used'] 0.9937275985663082
['July_not_used', 'Sept_not_used', 'Single'] --> ['Aug_not_used', 'no_default']
0.8658119658119658
['Apr_not_used', 'July_not_used', 'Sept_not_used', 'Single'] -->
['Aug_not_used', 'May_not_used'] 0.9941463414634146
['Apr_not_used', 'June_not_used', 'Sept_not_used', 'Single'] -->
['Aug_not_used', 'July_not_used', 'May_not_used'] 0.9951171875
['July_not_used', 'June_not_used', 'Sept_not_used', 'Single'] -->
['Aug_not_used'] 1.0
['Aug_not_used', 'Sept_not_used', 'Single'] --> ['no_default']
0.8686305732484076
['Apr_not_used', 'Aug_not_used', 'Sept_not_used', 'Single'] --> ['May_not_used']
0.9903660886319846
['Aug_not_used', 'June_not_used', 'Sept_not_used', 'Single'] -->
['July not used'] 1.0
['Apr_not_used', 'May_not_used', 'Sept_not_used', 'Single'] --> ['Aug_not_used']
0.9865642994241842
['June_not_used', 'May_not_used', 'Sept_not_used', 'Single'] -->
['Aug_not_used'] 0.9943555973659455
['Aug_not_used', 'July_not_used', 'Sept_not_used', 'Single'] --> ['no_default']
0.8658119658119658
['Apr_not_used', 'Aug_not_used', 'July_not_used', 'Sept_not_used', 'Single'] -->
['May_not_used'] 0.9941463414634146
['Apr_not_used', 'Aug_not_used', 'June_not_used', 'Sept_not_used', 'Single'] -->
['July_not_used', 'May_not_used'] 1.0
['Apr_not_used', 'July_not_used', 'June_not_used', 'Sept_not_used', 'Single']
--> ['Aug_not_used', 'May_not_used'] 1.0
['Aug not used', 'July not used', 'June not used', 'Sept not used', 'Single']
--> ['May_not_used'] 0.9531109107303878
['July not used', 'May not used', 'Sept not used', 'Single'] -->
['Aug_not_used', 'June_not_used'] 1.0
['Apr_not_used', 'July_not_used', 'May_not_used', 'Sept_not_used', 'Single'] -->
['Aug_not_used'] 1.0
['Apr_not_used', 'June_not_used', 'May_not_used', 'Sept_not_used', 'Single'] -->
['Aug_not_used', 'July_not_used'] 0.9951171875
['July_not_used', 'June_not_used', 'May_not_used', 'Sept_not_used', 'Single']
--> ['Aug_not_used'] 1.0
['Aug_not_used', 'May_not_used', 'Sept_not_used', 'Single'] -->
['June_not_used'] 0.9906279287722587
['Apr_not_used', 'Aug_not_used', 'May_not_used', 'Sept_not_used', 'Single'] -->
['July_not_used'] 0.9912451361867705
```

```
['Aug_not_used', 'June_not_used', 'May_not_used', 'Sept_not_used', 'Single'] -->
['July_not_used'] 1.0
['Aug not_used', 'July_not_used', 'May not_used', 'Sept_not_used', 'Single'] -->
['June_not_used'] 1.0
['Apr not used', 'Aug not used', 'July not used', 'June not used',
'Sept_not_used', 'Single'] --> ['May_not_used'] 1.0
['Apr not used', 'Aug not used', 'July not used', 'May not used',
'Sept_not_used', 'Single'] --> ['June_not_used'] 1.0
['Apr_not_used', 'Aug_not_used', 'June_not_used', 'May_not_used',
'Sept_not_used', 'Single'] --> ['July_not_used'] 1.0
['Apr_not_used', 'July_not_used', 'June_not_used', 'May_not_used',
'Sept_not_used', 'Single'] --> ['Aug_not_used'] 1.0
['Aug_not_used', 'July_not_used', 'June_not_used', 'May_not_used',
'Sept_not_used', 'Single'] --> ['Apr_not_used'] 0.9640491958372753
['Sept_not_used', 'Single', 'no_default'] --> ['Aug_not_used']
0.9261460101867572
['Aug_not_used', 'Sept_not_used', 'Single', 'no_default'] --> ['July_not_used']
0.928505957836847
['July_not_used', 'Sept_not_used', 'Single', 'no_default'] --> ['Aug_not_used']
['Graduate School', 'July_not_used', 'Sept_not_used'] --> ['Aug_not_used'] 1.0
['Apr_not_used', 'Graduate School', 'July_not_used', 'Sept_not_used'] -->
['Aug_not_used', 'June_not_used', 'May_not_used'] 0.9934579439252337
['Apr_not_used', 'Graduate School', 'June_not_used', 'Sept_not_used'] -->
['Aug_not_used', 'May_not_used'] 0.992530345471522
['Graduate School', 'July_not_used', 'June_not_used', 'Sept_not_used'] -->
['Aug_not_used'] 1.0
['Aug_not_used', 'Graduate School', 'Sept_not_used'] --> ['July_not_used']
0.9467084639498433
['Apr_not_used', 'Aug_not_used', 'Graduate School', 'Sept_not_used'] -->
['May_not_used'] 0.9861878453038674
['Aug_not_used', 'Graduate School', 'July_not_used', 'Sept_not_used'] -->
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['Aug_not_used', 'Graduate School', 'June_not_used', 'Sept_not_used'] -->
['July_not_used'] 1.0
['Apr_not_used', 'Aug_not_used', 'Graduate School', 'July_not_used',
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['Apr not_used', 'Aug not_used', 'Graduate School', 'June not_used',
'Sept_not_used'] --> ['May_not_used'] 1.0
['Apr_not_used', 'Graduate School', 'July_not_used', 'June_not_used',
'Sept_not_used'] --> ['Aug_not_used', 'May_not_used'] 1.0
['Aug not_used', 'Graduate School', 'July_not_used', 'June not_used',
'Sept_not_used'] --> ['May_not_used'] 0.9584415584415584
['Graduate School', 'June not_used', 'May_not_used', 'Sept_not_used'] -->
```

```
['Aug_not_used'] 0.991047448522829
['Apr_not_used', 'Graduate School', 'July_not_used', 'May_not_used',
'Sept_not_used'] --> ['Aug_not_used', 'June_not_used'] 1.0
['Apr_not_used', 'Graduate School', 'June_not_used', 'May_not_used',
'Sept not used'] --> ['Aug not used'] 0.992530345471522
['Graduate School', 'July_not_used', 'June_not_used', 'May_not_used',
'Sept_not_used'] --> ['Aug_not_used'] 1.0
['Aug_not_used', 'Graduate School', 'May_not_used', 'Sept_not_used'] -->
['June_not_used'] 0.9901610017889088
['Apr_not_used', 'Aug_not_used', 'Graduate School', 'May_not_used',
'Sept_not_used'] --> ['June_not_used'] 0.992530345471522
['Aug not_used', 'Graduate School', 'July_not_used', 'May_not_used',
'Sept_not_used'] --> ['June_not_used'] 1.0
['Aug not_used', 'Graduate School', 'June_not_used', 'May_not_used',
'Sept_not_used'] --> ['July_not_used'] 1.0
['Apr_not_used', 'Aug_not_used', 'Graduate School', 'July_not_used',
'June_not_used', 'Sept_not_used'] --> ['May_not_used'] 1.0
['Apr_not_used', 'Aug_not_used', 'Graduate School', 'July_not_used',
'May_not_used', 'Sept_not_used'] --> ['June_not_used'] 1.0
['Apr_not_used', 'Aug_not_used', 'Graduate School', 'June_not_used',
'May_not_used', 'Sept_not_used'] --> ['July_not_used'] 1.0
['Apr_not_used', 'Graduate School', 'July_not_used', 'June_not_used',
'May_not_used', 'Sept_not_used'] --> ['Aug_not_used'] 1.0
['Aug_not_used', 'Graduate School', 'July_not_used', 'June_not_used',
'May_not_used', 'Sept_not_used'] --> ['Apr_not_used'] 0.960252935862692
['Graduate School', 'Sept_not_used', 'no_default'] --> ['Aug_not_used',
'July_not_used'] 0.880168776371308
['Aug_not_used', 'Graduate School', 'Sept_not_used', 'no_default'] -->
['July_not_used'] 0.9430379746835443
['Graduate School', 'July_not_used', 'Sept_not_used', 'no_default'] -->
['Aug_not_used'] 1.0
['July_not_used', 'Married', 'Sept_not_used'] --> ['Aug_not_used'] 1.0
['Apr_not_used', 'July_not_used', 'Married', 'Sept_not_used'] -->
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['Apr not used', 'June not used', 'Married', 'Sept not used'] -->
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['July_not_used', 'June_not_used', 'Married', 'Sept_not_used'] -->
['Aug_not_used'] 1.0
['Aug_not_used', 'Married', 'Sept_not_used'] --> ['July_not_used']
0.9427899686520376
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['May_not_used'] 0.9807692307692307
['Aug_not_used', 'July_not_used', 'Married', 'Sept_not_used'] --> ['no_default']
0.8603491271820449
['Apr_not_used', 'Married', 'May_not_used', 'Sept_not_used'] -->
['Aug_not_used'] 0.979871912168344
['July_not_used', 'Married', 'May_not_used', 'Sept_not_used'] -->
['Aug_not_used', 'June_not_used'] 1.0
```

```
['Aug_not_used', 'June_not_used', 'Married', 'Sept_not_used'] -->
['July_not_used'] 1.0
['Apr_not_used', 'Aug_not_used', 'July_not_used', 'Married', 'Sept_not_used']
--> ['June_not_used', 'May_not_used'] 0.9906890130353817
['Apr not used', 'Aug not used', 'June not used', 'Married', 'Sept not used']
--> ['May not used'] 1.0
['Apr not used', 'July not used', 'June not used', 'Married', 'Sept not used']
--> ['Aug_not_used', 'May_not_used'] 1.0
['Aug_not_used', 'July_not_used', 'June_not_used', 'Married', 'Sept_not_used']
--> ['May_not_used'] 0.9686684073107049
['June_not_used', 'Married', 'May_not_used', 'Sept_not_used'] -->
['Aug_not_used'] 0.9867021276595744
['Apr_not_used', 'July_not_used', 'Married', 'May_not_used', 'Sept_not_used']
--> ['Aug_not_used', 'June_not_used'] 1.0
['Apr_not_used', 'June_not_used', 'Married', 'May_not_used', 'Sept_not_used']
--> ['Aug_not_used'] 0.9888475836431226
['July_not_used', 'June_not_used', 'Married', 'May_not_used', 'Sept_not_used']
--> ['Aug_not_used'] 1.0
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['June not used'] 0.9910952804986642
['Apr_not_used', 'Aug_not_used', 'Married', 'May_not_used', 'Sept_not_used'] -->
['June not used'] 0.9934640522875817
['Aug_not_used', 'July_not_used', 'Married', 'May_not_used', 'Sept_not_used']
--> ['June_not_used'] 1.0
['Aug_not_used', 'June_not_used', 'Married', 'May_not_used', 'Sept_not_used']
--> ['July_not_used'] 1.0
['Apr not_used', 'Aug not_used', 'July not_used', 'June not_used', 'Married',
'Sept_not_used'] --> ['May_not_used'] 1.0
['Apr_not_used', 'Aug_not_used', 'July_not_used', 'Married', 'May_not_used',
'Sept_not_used'] --> ['June_not_used'] 1.0
['Apr_not_used', 'Aug_not_used', 'June_not_used', 'Married', 'May_not_used',
'Sept_not_used'] --> ['July_not_used'] 1.0
['Apr not_used', 'July not_used', 'June not_used', 'Married', 'May not_used',
'Sept_not_used'] --> ['Aug_not_used'] 1.0
['Aug not used', 'July not used', 'June not used', 'Married', 'May not used',
'Sept_not_used'] --> ['Apr_not_used'] 0.9559748427672956
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0.8697478991596639
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['July_not_used', 'Married', 'Sept_not_used', 'no_default'] --> ['Aug_not_used']
1.0
['Apr_not_used', 'Female', 'July_not_used', 'Sept_not_used'] -->
['Aug_not_used', 'June_not_used', 'May_not_used'] 0.9958391123439667
['Female', 'July_not_used', 'Sept_not_used', 'no_default'] --> ['Aug_not_used']
['Apr_not_used', 'Female', 'June_not_used', 'Sept_not_used'] -->
['Aug_not_used', 'May_not_used'] 0.9944598337950139
```

```
['Female', 'July_not_used', 'June_not_used', 'Sept_not_used'] -->
['Aug_not_used'] 1.0
['Female', 'June_not_used', 'Sept_not_used', 'no_default'] --> ['Aug_not_used',
'July_not_used'] 0.9903703703703703
['Apr not used', 'Female', 'July not used', 'June not used', 'Sept not used']
--> ['Aug_not_used', 'May_not_used'] 1.0
['Apr_not_used', 'Female', 'July_not_used', 'Sept_not_used', 'no_default'] -->
['Aug_not_used', 'June_not_used', 'May_not_used'] 0.9968
['Apr_not_used', 'Female', 'June_not_used', 'Sept_not_used', 'no_default'] -->
['Aug_not_used', 'May_not_used'] 0.994413407821229
['Female', 'July_not_used', 'June_not_used', 'Sept_not_used', 'no_default'] -->
['Aug_not_used'] 1.0
['Apr_not_used', 'Aug_not_used', 'Female', 'Sept_not_used'] --> ['May_not_used']
0.9897540983606558
['Aug_not_used', 'Female', 'Sept_not_used', 'no_default'] --> ['July_not_used']
0.9304635761589404
['Apr_not_used', 'Aug_not_used', 'Female', 'July_not_used', 'Sept_not_used'] -->
['June_not_used', 'May_not_used'] 0.9958391123439667
['Apr_not_used', 'Aug_not_used', 'Female', 'July_not_used', 'no_default'] -->
['May not used'] 0.9881812212738017
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['May_not_used'] 0.9913249211356467
['Aug_not_used', 'Female', 'July_not_used', 'Sept_not_used', 'no_default'] -->
['June_not_used'] 0.9516014234875445
['Apr_not_used', 'Female', 'May_not_used', 'Sept_not_used'] --> ['Aug_not_used']
0.9877300613496932
['Female', 'July_not_used', 'May_not_used', 'Sept_not_used'] -->
['Aug_not_used', 'June_not_used'] 1.0
['Apr_not_used', 'Female', 'July_not_used', 'May_not_used', 'Sept_not_used'] -->
['Aug_not_used', 'June_not_used'] 1.0
['Apr_not_used', 'Female', 'May_not_used', 'Sept_not_used', 'no_default'] -->
['Aug_not_used'] 0.9866562009419152
['Female', 'July_not_used', 'May_not_used', 'Sept_not_used', 'no_default'] -->
['Aug_not_used', 'June_not_used'] 1.0
['Aug not used', 'Female', 'June not used', 'Sept not used'] -->
['July_not_used'] 1.0
['Apr_not_used', 'Aug_not_used', 'Female', 'June_not_used', 'Sept_not_used'] -->
['May_not_used'] 1.0
['Apr_not_used', 'Aug_not_used', 'Female', 'June_not_used', 'no_default'] -->
['July_not_used', 'May_not_used'] 1.0
['Aug_not_used', 'Female', 'July_not_used', 'June_not_used', 'Sept_not_used']
--> ['no_default'] 0.8620245003223727
['Aug_not_used', 'Female', 'June_not_used', 'Sept_not_used', 'no_default'] -->
['July_not_used'] 1.0
['Apr_not_used', 'Aug_not_used', 'Female', 'July_not_used', 'June_not_used',
'Sept_not_used'] --> ['May_not_used'] 1.0
['Apr_not_used', 'Aug_not_used', 'Female', 'July_not_used', 'June_not_used',
'no_default'] --> ['May_not_used'] 1.0
```

```
['Apr_not_used', 'Aug_not_used', 'Female', 'July_not_used', 'Sept_not_used',
'no_default'] --> ['June_not_used', 'May_not_used'] 0.9968
['Apr_not_used', 'Aug_not_used', 'Female', 'June_not_used', 'Sept_not_used',
'no_default'] --> ['May_not_used'] 1.0
['Apr not used', 'Female', 'July not used', 'June not used', 'Sept not used',
'no_default'] --> ['Aug_not_used', 'May_not_used'] 1.0
['Aug_not_used', 'Female', 'July_not_used', 'June_not_used', 'Sept_not_used',
'no_default'] --> ['May_not_used'] 0.9670905011219147
['Female', 'June_not_used', 'May_not_used', 'Sept_not_used'] -->
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0.8936708860759494
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0.8415331807780321
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0.828637147786084
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