Pythonwordproject_ElineDeWitte

March 6, 2022

1 Exploratory data analysis of word ratings

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I worked with the Dutch and the English file. Here is an overview of the different steps I took

1. Analyses with the Dutch words

    1. A first look
    2. Analyses on the whole population
    3. Comparing men and women
    4. Conclusions

2. Analyses with the English words

    1. A first look
    2. Analyses on the whole population
    3. Comparing men and women
    4. Comparing young and old
    5. Conclusions

3. Comparing the Dutch and the English words

    1. Match the words
    2. Compare the scores

```
[1]: #load modules
     import pandas as pd
     import seaborn as sns
     import matplotlib.pyplot as plt
     import numpy as np
     import re
```

```
[2]: #load datasets
     nederlands = pd.read_excel('nederlandsewoorden.xlsx')
     engels = pd.read_csv('engelsewoorden.csv')
```

2 1. Analysis with the Dutch words

2.0.1 1.1. A first look

In this section you will find the following analyses: I run a few exploratory lines to know what the dataset looks like. It becomes immediately clear that the column names are not ideal. Therefore I will rename the columns, with titles that I find clear. Then I delete the first row since it does not contain information about words. I find the dataframe too big. Therefor I will create 3 seperate dataframes: 'Nediedereen' contains information on men and women. 'Dutchmen' contains information only on men and 'DutchWOmen' contains information only on women's perspective on these words. I also noticed that the type of these columns is 'object' and this later does not allow me to calculate correlations, so I changed the datatype to 'float64'.

The new titles of the columns have 3 components: (The 6 last columns are different) 1. The measure they relate to, i.e. Valence, Dominance, Arousal or Age of Aquisition 2. The statistic, i.e. mean (M), standard diviation (SD) or number of participants (N) 3. The group the scores apply to, i.e. all (A), men (M) or women (W)

```
[3]: print(nederlands.shape)
     print(nederlands.columns)
     print(nederlands.info())
     nederlands.head()
```

```
(4300, 43)
Index(['Unnamed: 0', 'Unnamed: 1', 'All', 'Unnamed: 3', 'Unnamed: 4',
       'Unnamed: 5', 'Unnamed: 6', 'Unnamed: 7', 'Unnamed: 8', 'Unnamed: 9',
       'Unnamed: 10', 'Unnamed: 11', 'Unnamed: 12', 'Unnamed: 13', 'Men',
       'Unnamed: 15', 'Unnamed: 16', 'Unnamed: 17', 'Unnamed: 18',
       'Unnamed: 19', 'Unnamed: 20', 'Unnamed: 21', 'Unnamed: 22',
       'Unnamed: 23', 'Unnamed: 24', 'Unnamed: 25', 'Women', 'Unnamed: 27',
       'Unnamed: 28', 'Unnamed: 29', 'Unnamed: 30', 'Unnamed: 31',
       'Unnamed: 32', 'Unnamed: 33', 'Unnamed: 34', 'Unnamed: 35',
       'Unnamed: 36', 'Unnamed: 37', 'Unnamed: 38', 'Unnamed: 39',
       'Unnamed: 40', 'Unnamed: 41', 'Unnamed: 42'],
      dtype='object')
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 4300 entries, 0 to 4299
Data columns (total 43 columns):
 #   Column       Non-Null Count  Dtype
---  ------       --------------  -----
 0   Unnamed: 0   4300 non-null   object
 1   Unnamed: 1   4300 non-null   object
 2   All          4300 non-null   object
 3   Unnamed: 3   4300 non-null   object
 4   Unnamed: 4   4300 non-null   object
 5   Unnamed: 5   4300 non-null   object
 6   Unnamed: 6   4300 non-null   object
 7   Unnamed: 7   4300 non-null   object
 8   Unnamed: 8   4300 non-null   object
```

```
 9   Unnamed: 9   4300 non-null   object
 10  Unnamed: 10  4300 non-null   object
 11  Unnamed: 11  4300 non-null   object
 12  Unnamed: 12  4300 non-null   object
 13  Unnamed: 13  4300 non-null   object
 14  Men          4300 non-null   object
 15  Unnamed: 15  4300 non-null   object
 16  Unnamed: 16  4300 non-null   object
 17  Unnamed: 17  4300 non-null   object
 18  Unnamed: 18  4300 non-null   object
 19  Unnamed: 19  4300 non-null   object
 20  Unnamed: 20  4300 non-null   object
 21  Unnamed: 21  4300 non-null   object
 22  Unnamed: 22  4300 non-null   object
 23  Unnamed: 23  4300 non-null   object
 24  Unnamed: 24  4300 non-null   object
 25  Unnamed: 25  4300 non-null   object
 26  Women        4300 non-null   object
 27  Unnamed: 27  4300 non-null   object
 28  Unnamed: 28  4300 non-null   object
 29  Unnamed: 29  4300 non-null   object
 30  Unnamed: 30  4300 non-null   object
 31  Unnamed: 31  4300 non-null   object
 32  Unnamed: 32  4300 non-null   object
 33  Unnamed: 33  4300 non-null   object
 34  Unnamed: 34  4300 non-null   object
 35  Unnamed: 35  4300 non-null   object
 36  Unnamed: 36  4300 non-null   object
 37  Unnamed: 37  4300 non-null   object
 38  Unnamed: 38  4300 non-null   object
 39  Unnamed: 39  4300 non-null   object
 40  Unnamed: 40  4300 non-null   object
 41  Unnamed: 41  4300 non-null   object
 42  Unnamed: 42  4298 non-null   object
dtypes: object(43)
memory usage: 1.4+ MB
None
```

```
[3]:    Unnamed: 0    Unnamed: 1         All Unnamed: 3 Unnamed: 4 Unnamed: 5  \
     0      Words   Translation        M V        SD V        N V        M A
     1      aaien     to stroke   5.203125    0.738503         64    3.96875
     2        aal           eel   3.421875    0.751817         64        3.9
     3     aalmoes          alms   3.296875    0.986893         64   3.098361
     4  aandachtig     attentive   5.296875    0.682658         64      4.875

       Unnamed: 6 Unnamed: 7 Unnamed: 8 Unnamed: 9  … Unnamed: 33 Unnamed: 34  \
     0       SD A        N A        M P       SD P  …        SD P         N P
```

```
1     1.246821          64        3.4375     1.12511    …      1.075759              32
2     1.480953          60      3.438596    1.118314    …      1.120897              27
3     1.164831          61        2.8125    1.307791    …      1.319824              32
4     1.091089          64         4.875    0.863731    …      0.592289              32

      Unnamed: 35 Unnamed: 36 Unnamed: 37  Unnamed: 38 Unnamed: 39 Unnamed: 40  \
0          M AoA       SD AoA       N AoA  Freq(Log10)  Freq (1E6)       Length
1         4.8125     2.166987          16     0.323014    2.103847            5
2            8.6     2.063284          15    -0.096706    0.800376            3
3       9.714286     2.584825          14    -0.017524    0.960452            7
4          7.625     2.093641          16     0.367826    2.332526           10

      Unnamed: 41            Unnamed: 42
0          N (%)  Grammatical category
1              0                     V
2       5.381166                     N
3       2.242152                     N
4              0                     A

[5 rows x 43 columns]
```

```python
verbeter1 = nederlands.rename(columns= {'Unnamed: 0': 'Words', 'Unnamed: 1':
→'Translation', 'All': 'ValenceMA', 'Unnamed: 3': 'ValenceSDA', 'Unnamed: 4' :
→ 'ValenceNA',
        'Unnamed: 5' : 'ArousalMA', 'Unnamed: 6': 'ArousalSDA', 'Unnamed: 7':
→'ArousalNA', 'Unnamed: 8': 'DominanceMA', 'Unnamed: 9' : 'DominanceSDA',
        'Unnamed: 10': 'DominanceNA', 'Unnamed: 11': 'AoAMA', 'Unnamed: 12':
→'AoASDA', 'Unnamed: 13': 'AoANA', 'Men': 'ValenceMM',
        'Unnamed: 15': 'ValenceSDM', 'Unnamed: 16' : 'ValenceNM', 'Unnamed: 17':
→'ArousalMM', 'Unnamed: 18': 'ArousalSDM',
        'Unnamed: 19': 'ArousalNM', 'Unnamed: 20': 'DominanceMM', 'Unnamed: 21' :
→ 'DominanceSDM', 'Unnamed: 22': 'DominanceNM',
        'Unnamed: 23': 'AoAMM', 'Unnamed: 24': 'AoASDM', 'Unnamed: 25': 'AoANM',
→'Women': 'ValenceMW', 'Unnamed: 27': 'ValenceSDW',
        'Unnamed: 28': 'ValenceNW', 'Unnamed: 29': 'ArousalMW', 'Unnamed: 30':
→'ArousalSDW', 'Unnamed: 31': 'ArousalNW',
        'Unnamed: 32': 'DominanceMW', 'Unnamed: 33': 'DominanceSDW', 'Unnamed:
→34': 'DominanceNW', 'Unnamed: 35': 'AoAMW',
        'Unnamed: 36': 'AoASDW', 'Unnamed: 37': 'AoANW', 'Unnamed: 38':
→'Freq(Log10)', 'Unnamed: 39': 'Freq (1E6)',
        'Unnamed: 40': 'Length', 'Unnamed: 41': 'N (%)', 'Unnamed: 42':
→'Grammatical category'})
```

```python
verbeter2 = verbeter1.drop([0])
```

```python
[6]: HeelNederlands = verbeter2.iloc[:, :2] + verbeter2.iloc[:, 2:42].
     →astype('float64')
```

```python
[7]: # define list of column names
     cols = ['Words', 'Translation', 'ValenceMA', 'ValenceSDA',
     →'ValenceNA','ArousalMA', 'ArousalSDA','ArousalNA', 'DominanceMA',
     →'DominanceSDA', 'DominanceNA', 'AoAMA', 'AoASDA', 'AoANA', 'Length']

     # Create a Df by slicing the source DataFrame
     Neder= verbeter2[cols]

     #datatype set to float
     deel2 = Neder.iloc[:, 2:14].astype('float64')
     deel1= Neder.iloc[:, :2]
     deel3= Neder.iloc[:, 14].astype('int8')
     Nediedereen = pd.concat([deel1, deel2, deel3], axis=1)

     #inspect
     print(Nediedereen.shape)
     print(Nediedereen.info())
     Nediedereen
```

```
(4299, 15)
<class 'pandas.core.frame.DataFrame'>
Int64Index: 4299 entries, 1 to 4299
Data columns (total 15 columns):
 #   Column       Non-Null Count  Dtype
---  ------       --------------  -----
 0   Words        4299 non-null   object
 1   Translation  4299 non-null   object
 2   ValenceMA    4299 non-null   float64
 3   ValenceSDA   4299 non-null   float64
 4   ValenceNA    4299 non-null   float64
 5   ArousalMA    4299 non-null   float64
 6   ArousalSDA   4299 non-null   float64
 7   ArousalNA    4299 non-null   float64
 8   DominanceMA  4299 non-null   float64
 9   DominanceSDA 4299 non-null   float64
 10  DominanceNA  4299 non-null   float64
 11  AoAMA        4299 non-null   float64
 12  AoASDA       4299 non-null   float64
 13  AoANA        4299 non-null   float64
 14  Length       4299 non-null   int8
dtypes: float64(12), int8(1), object(2)
memory usage: 508.0+ KB
None
```

```
[7]:          Words      Translation  ValenceMA  ValenceSDA  ValenceNA  ArousalMA  \
     1         aaien        to stroke   5.203125    0.738503       64.0   3.968750
     2           aal              eel   3.421875    0.751817       64.0   3.900000
     3       aalmoes             alms   3.296875    0.986893       64.0   3.098361
     4     aandachtig        attentive   5.296875    0.682658       64.0   4.875000
     5     aangenaam          pleasant   5.937500    0.709907       64.0   3.718750
     ...         ...              ...        ...         ...        ...        ...
     4295     zwijgen  to keep silent   3.656250    0.894760       64.0   2.390625
     4296    zwijgzaam         taciturn   3.312500    0.774084       64.0   2.328125
     4297       zwijn              pig   3.218750    1.075982       64.0   4.343750
     4298     zwoegen          to toil   2.937500    0.906327       64.0   6.062500
     4299       zwoel           sultry   5.359375    1.145969       64.0   4.187500

           ArousalSDA  ArousalNA  DominanceMA  DominanceSDA  DominanceNA     AoAMA  \
     1       1.246821       64.0     3.437500      1.125110         64.0  4.709677
     2       1.480953       60.0     3.438596      1.118314         57.0  8.033333
     3       1.164831       61.0     2.812500      1.307791         64.0  9.379310
     4       1.091089       64.0     4.875000      0.863731         64.0  7.516129
     5       1.302851       64.0     4.671875      1.069857         64.0  8.193548
     ...          ...        ...          ...           ...          ...       ...
     4295    1.063346       64.0     3.375000      1.278640         64.0  5.193548
     4296    0.992906       64.0     3.250000      1.195229         64.0  8.774194
     4297    1.143911       64.0     4.359375      1.145969         64.0  5.774194
     4298    0.774084       64.0     4.640625      1.337697         64.0  8.258065
     4299    1.500000       64.0     4.269841      1.166831         63.0  9.612903

             AoASDA  AoANA  Length
     1      2.052536   32.0       5
     2      2.385059   31.0       3
     3      2.664767   30.0       7
     4      2.079599   32.0      10
     5      2.056200   32.0       9
     ...         ...    ...     ...
     4295   1.778002   32.0       7
     4296   2.499462   32.0       9
     4297   2.124613   32.0       5
     4298   2.529397   32.0       7
     4299   3.283062   32.0       5

     [4299 rows x 15 columns]
```

```python
[8]: # define list of column names
     cols = ['Words', 'Translation', 'ValenceMM', 'ValenceSDM',
     'ValenceNM','ArousalMM', 'ArousalSDM','ArousalNM', 'DominanceMM',
     'DominanceSDM', 'DominanceNM', 'AoAMM', 'AoASDM', 'AoANM']

     # Create a Df by slicing the source DataFrame
```

```
man= verbeter2[cols]

#dattype set to float
deel2 = man.iloc[:, 2:].astype('float64')
deel1= man.iloc[:, :2]
Dutchmen = pd.concat([deel1, deel2], axis=1)

#inspect
print(Dutchmen.shape)
```

(4299, 14)

[9]:
```
# define list of column names
cols = ['Words', 'Translation', 'ValenceMW', 'ValenceSDW',
 'ValenceNW','ArousalMW', 'ArousalSDW','ArousalNW', 'DominanceMW',
 'DominanceSDW', 'DominanceNW', 'AoAMW', 'AoASDW', 'AoANW']

# Create a Df by slicing the source DataFrame
women= verbeter2[cols]

#datatype set to float
deel2 = women.iloc[:, 2:].astype('float64')
deel1= women.iloc[:, :2]
DutchWOmen = pd.concat([deel1, deel2], axis=1)

#inspect
print(DutchWOmen.shape)
```

(4299, 14)

2.0.2 1.2. Analyses on the whole population

In this section you will find the following analyses: I inspected per mean (Valence, Arousal, Dominance and AoA/ Age of aquisition) what are the highest and lowest ranking words and I made a plot per mean: the x-axis has the mean and the y-axis the standard diviation of the responses people gave. Then I calculated the correlations between all variabels and inspected the ones that were surprisingly low or high.

[10]:
```
#see the highest and lowest ranked words on valence
Nediedereen.sort_values('ValenceMA', ascending = False)
```

[10]:

	Words	Translation	ValenceMA	ValenceSDA	ValenceNA \
1004	gelukkig	happy	6.609375	0.632887	64.0
1900	liefde	love	6.531250	0.853913	64.0
1005	gelukkigheid	happiness	6.476190	0.618457	63.0
186	beeldschoon	beautiful	6.468750	0.712000	64.0
3988	vriendschap	friendship	6.421875	0.831993	64.0
...	...	...	...	...	...

```
2881      roofmoord  murder with robbery  1.281250   0.700765        64.0
1291         Hitler               Hitler  1.281250   0.677735        64.0
1370         incest               incest  1.203125   0.509581        64.0
1472         kanker               cancer  1.156250   0.365963        64.0
2504        pedofiel            pedophile  1.140625   0.393083        64.0

      ArousalMA  ArousalSDA  ArousalNA  DominanceMA  DominanceSDA  \
1004   4.640625    1.462409       64.0     5.359375      1.200095
1900   5.593750    1.388373       64.0     5.578125      1.165710
1005   5.079365    1.383096       63.0     5.265625      1.144236
186    4.500000    1.380131       64.0     5.171875      1.303898
3988   4.703125    1.243136       64.0     5.187500      1.343710
…            …          …          …            …             …
2881   6.312500    1.067187       64.0     5.562500      1.631778
1291   5.484375    1.718177       64.0     5.984375      1.768258
1370   5.015625    1.628050       64.0     4.031250      2.336520
1472   4.875000    1.618347       64.0     5.312500      1.950783
2504   5.000000    1.623244       64.0     3.593750      2.321184

      DominanceNA       AoAMA     AoASDA  AoANA  Length
1004         64.0    5.774194   1.430843   32.0       8
1900         64.0    5.838710   2.207514   32.0       6
1005         64.0    7.933333   2.391556   31.0      12
186          64.0    7.322581   2.534917   32.0      11
3988         64.0    5.838710   1.845658   32.0      11
…              …          …          …      …       …
2881         64.0   10.366667   2.846454   31.0       9
1291         64.0    9.193548   2.257127   32.0       6
1370         64.0   11.580645   2.717526   32.0       6
1472         64.0    8.838710   2.464370   32.0       6
2504         64.0   10.322581   3.048356   32.0       8

[4299 rows x 15 columns]
```

[11]: `sns.relplot(x='ValenceMA', y='ValenceSDA', data=Nediedereen)`

[11]: `<seaborn.axisgrid.FacetGrid at 0x22dbf0f6f40>`
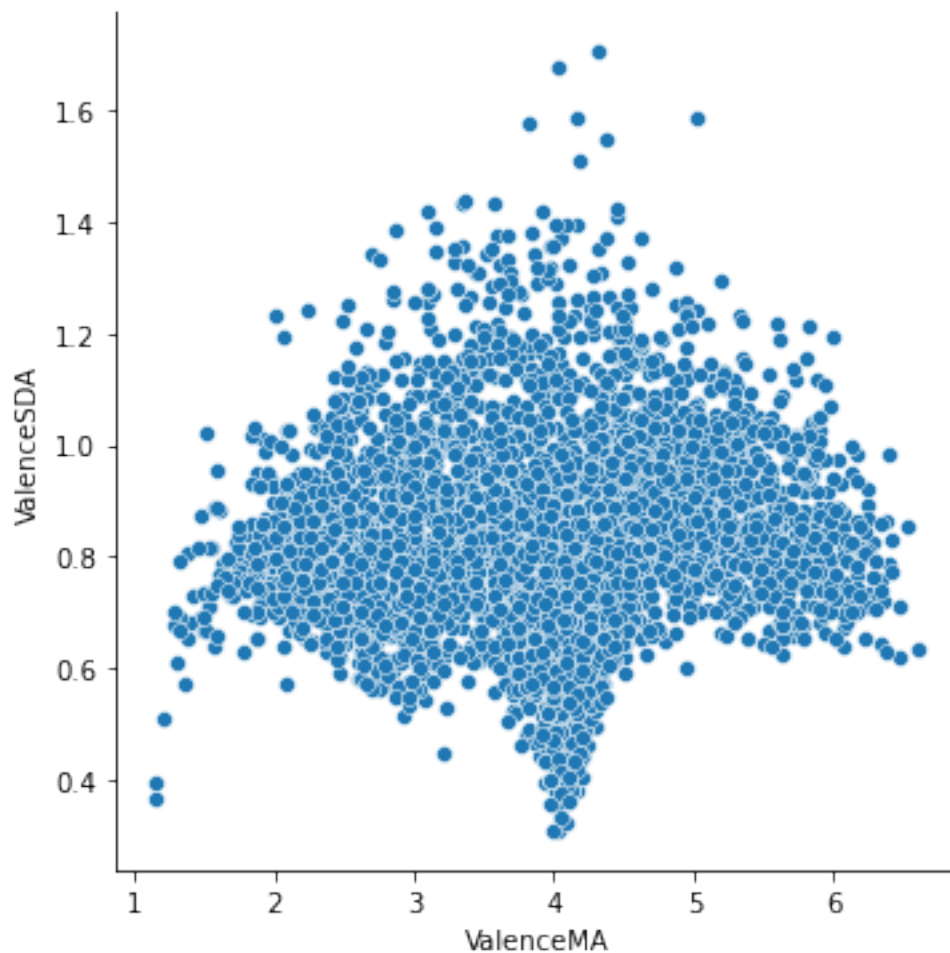
```
[12]:  #see the highest and lowest ranked words on arousal
       Nediedereen.sort_values('ArousalMA', ascending = False)
```

```
[12]:          Words   Translation   ValenceMA   ValenceSDA   ValenceNA   ArousalMA  \
       2370   ontploffing    explosion    2.093750     0.938062        64.0    6.515625
       1350   hyperactief   hyperactive    3.328125     1.127642        64.0    6.500000
       2432        orgasme        orgasm    6.234375     0.921389        64.0    6.484375
       2437         orkaan     hurricane    2.453125     1.082761        64.0    6.453125
       2237         neuken       to fuck    4.312500     1.707825        64.0    6.444444
       ...             ...           ...         ...          ...         ...         ...
       649         doodmoe     exhausted    2.156250     0.739342        64.0    1.750000
       2490         passief       passive    2.781250     0.700765        64.0    1.734375
       656         doodstil        silent    3.109375     0.993905        64.0    1.671875
       1889      levensloos      lifeless    1.687500     0.753300        64.0    1.593750
       1888       levenloos      lifeless    1.750000     0.776643        64.0    1.453125

              ArousalSDA   ArousalNA   DominanceMA   DominanceSDA   DominanceNA  \
```

9

```
2370    0.816345        64.0        5.812500    1.037013        64.0
1350    1.181874        64.0        5.031250    1.321000        64.0
2432    1.068929        64.0        5.906250    1.178090        64.0
2437    0.871592        64.0        6.125000    1.253566        64.0
2237    0.798745        63.0        5.078125    1.504540        64.0
...     ...             ...         ...         ...             ...
649     1.098339        64.0        3.234375    1.814773        64.0
2490    1.087332        64.0        2.609375    1.216516        64.0
656     0.943729        64.0        3.687500    1.651118        64.0
1889    1.094267        64.0        2.484375    1.834348        64.0
1888    0.889617        64.0        2.328125    1.652844        64.0


          AoAMA    AoASDA   AoANA  Length
2370    7.032258  2.316375   32.0      11
1350    8.935484  2.731733   32.0      11
2432   11.290323  2.147767   32.0       7
2437    7.709677  1.883145   32.0       6
2237   10.548387  2.062987   32.0       6
...     ...       ...        ...      ...
649     6.774194  2.044663   32.0       7
2490    9.612903  2.691684   32.0       7
656     6.935484  2.421232   32.0       8
1889    8.966667  2.552664   31.0      10
1888    8.774194  2.404297   32.0       9

[4299 rows x 15 columns]
```

[13]: `sns.relplot(x='ArousalMA', y='ArousalSDA', data=Nediedereen)`

[13]: `<seaborn.axisgrid.FacetGrid at 0x22dbf4e5d00>`
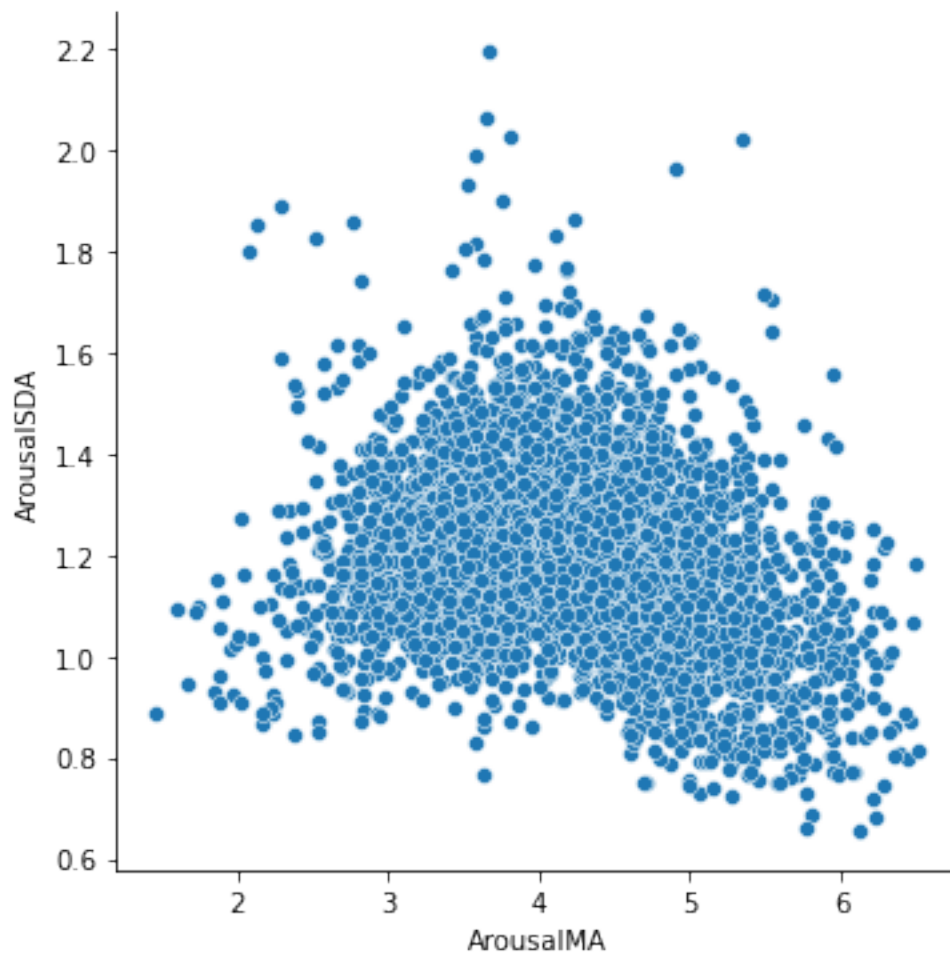
```
[14]: #see the highest and lowest ranked words on dominance
      Nediedereen.sort_values('DominanceMA', ascending = False)
```

[14]:

	Words	Translation	ValenceMA	ValenceSDA	ValenceNA	ArousalMA \
641	dominant	dominant	3.062500	0.906327	64.0	5.218750
2001	macht	power	3.968750	1.356568	64.0	5.390625
2437	orkaan	hurricane	2.453125	1.082761	64.0	6.453125
3507	superieur	superior	4.375000	1.548168	64.0	5.046875
599	dictator	dictator	1.734375	0.739845	64.0	5.328125
…	…	…	…	…	…	…
915	fragiel	fragile	3.062500	0.814063	64.0	2.937500
3135	slaaf	slave	1.890625	0.737159	64.0	4.234375
2312	onderdaan	subject	2.671875	0.757076	64.0	3.171875
2313	onderdanig	submissive	2.656250	0.858547	64.0	2.578125
4275	zwak	weak	2.484375	0.712523	64.0	2.507937

|	ArousalSDA	ArousalNA	DominanceMA	DominanceSDA	DominanceNA \

641	1.201438	64.0	6.156250	1.143911	64.0
2001	1.135533	64.0	6.140625	1.005811	64.0
2437	0.871592	64.0	6.125000	1.253566	64.0
3507	1.187631	64.0	6.125000	0.951190	64.0
599	1.345831	64.0	6.125000	1.452966	64.0
...	...	...	...	...	...
915	1.096531	64.0	2.047619	0.974325	63.0
3135	1.866515	64.0	2.046875	1.637164	64.0
2312	1.215700	64.0	2.031250	1.284446	64.0
2313	1.218960	64.0	1.937500	1.412810	64.0
4275	0.965084	63.0	1.906250	1.034619	64.0

	AoAMA	AoASDA	AoANA	Length
641	9.258065	2.804374	32.0	8
2001	7.322581	2.271374	32.0	5
2437	7.709677	1.883145	32.0	6
3507	10.193548	2.651029	32.0	9
599	10.000000	2.804758	32.0	8
...	...	...	...	...
915	9.612903	3.383070	32.0	7
3135	7.483871	2.618791	32.0	5
2312	8.548387	2.540849	32.0	9
2313	9.516129	2.618791	32.0	10
4275	5.774194	1.521177	32.0	4

[4299 rows x 15 columns]

```
[15]: sns.relplot(x='DominanceMA', y='DominanceSDA', data=Nediedereen)
```

```
[15]: <seaborn.axisgrid.FacetGrid at 0x22dbf0f6bb0>
```
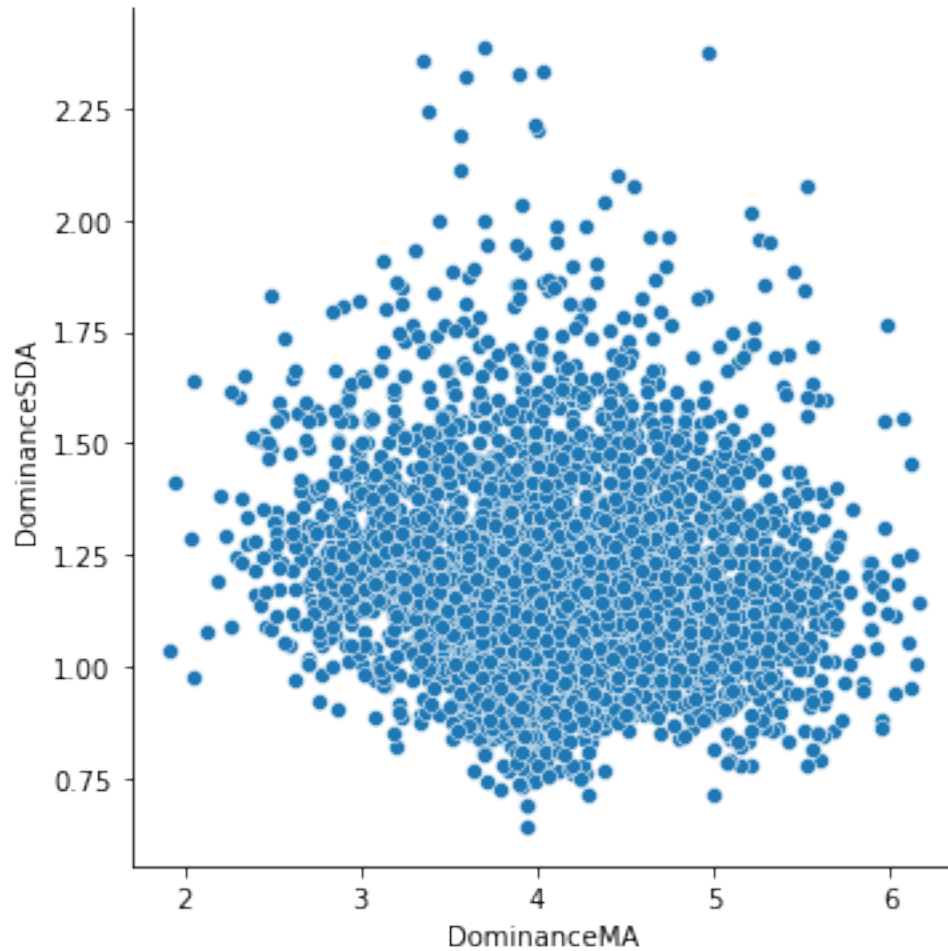
```
[16]:  #see the highest and lowest ranked words on dominance
       Nediedereen.sort_values('AoAMA', ascending = False)
```

```
[16]:                   Words     Translation  ValenceMA  ValenceSDA  ValenceNA  \
       1351      hypochondrisch    hypochondriac   2.215686    0.923336       51.0
       2262  nonconformistisch     nonconformist   4.423729    1.162687       59.0
       526        conformistisch        conformist   3.396552    1.107228       58.0
       2048             matrix            matrix   4.093750    0.867742       64.0
       2309      onconventioneel    unconventional   4.047619    1.098805       63.0
       ...                 ...               ...        ...         ...        ...
       2293                oma       grandmother   5.296875    1.079090       64.0
       172                 bed               bed   5.109375    0.944780       64.0
       3149             slapen          to sleep   5.500000    1.038925       64.0
       2479               papa              papa   5.593750    1.217840       64.0
       2018               mama              mama   5.875000    1.046536       64.0

             ArousalMA  ArousalSDA  ArousalNA  DominanceMA  DominanceSDA  \
```

13

1351	4.716981	1.459417	53.0	3.297872	1.932726
2262	3.983607	1.310112	61.0	4.803279	1.435498
526	3.147541	1.222512	61.0	3.311475	1.297960
2048	3.634921	1.154257	63.0	4.619048	0.974325
2309	4.079365	1.298903	63.0	4.412698	1.466122
...	...	...	...	...	...
2293	2.984375	1.161447	64.0	3.656250	1.416667
172	2.343750	1.287532	64.0	3.875000	0.951190
3149	1.906250	1.108678	64.0	3.640625	1.264499
2479	4.421875	1.165710	64.0	5.078125	1.158881
2018	4.437500	1.424001	64.0	4.859375	1.219773

	DominanceNA	AoAMA	AoASDA	AoANA	Length
1351	47.0	14.583333	3.348155	25.0	14
2262	61.0	13.482759	3.699621	30.0	17
526	61.0	13.266667	3.938609	31.0	14
2048	63.0	12.935484	3.172123	32.0	6
2309	63.0	12.741935	3.161938	32.0	15
...	...	...	...	...	...
2293	64.0	3.225806	1.359158	32.0	3
172	64.0	3.193548	1.249516	32.0	3
3149	64.0	3.064516	1.289328	32.0	6
2479	64.0	2.064516	0.892020	32.0	4
2018	64.0	2.032258	0.948116	32.0	4

[4299 rows x 15 columns]

```
[17]: sns.relplot(x='AoAMA', y='AoASDA', data=Nediedereen)
```

```
[17]: <seaborn.axisgrid.FacetGrid at 0x22dbf7e01c0>
```
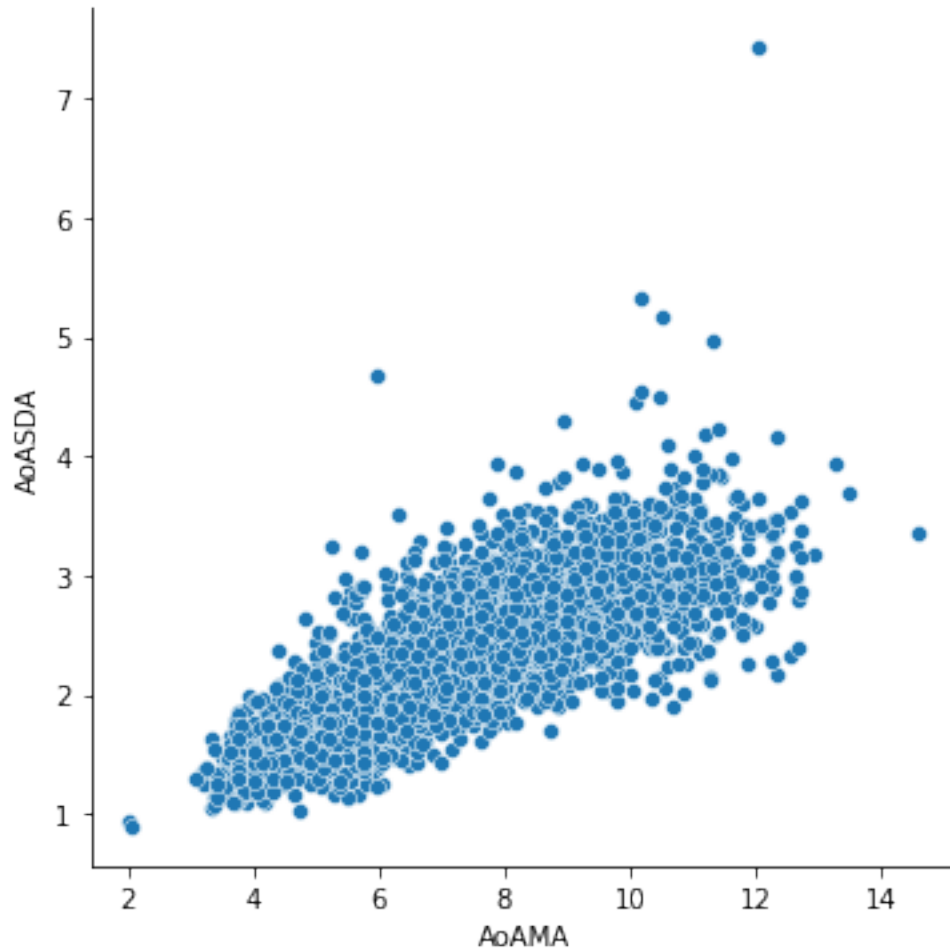
The last plot shows 2 measures: the average aquisistion age average and the standard deviation. 'AoA' was actually measured by asking when people think they acquired a certain word. So this plot shows that the later people think they learned a word the more of a difference there seems to be between the answers of the participants. Participants give more similar answers for words such as 'mama' and 'papa', then 'hypochondrisch'. I have calculated the correlation between the 2 variables in the next cell:

```
[18]: Nediedereen['AoAMA'].corr(Nediedereen['AoASDA'])
```

```
[18]: 0.8000083744524598
```

Then I was motivated to know all correlations:

```
[19]: correlations = Nediedereen.corr()
      sns.heatmap(correlations)
      plt.show()
```
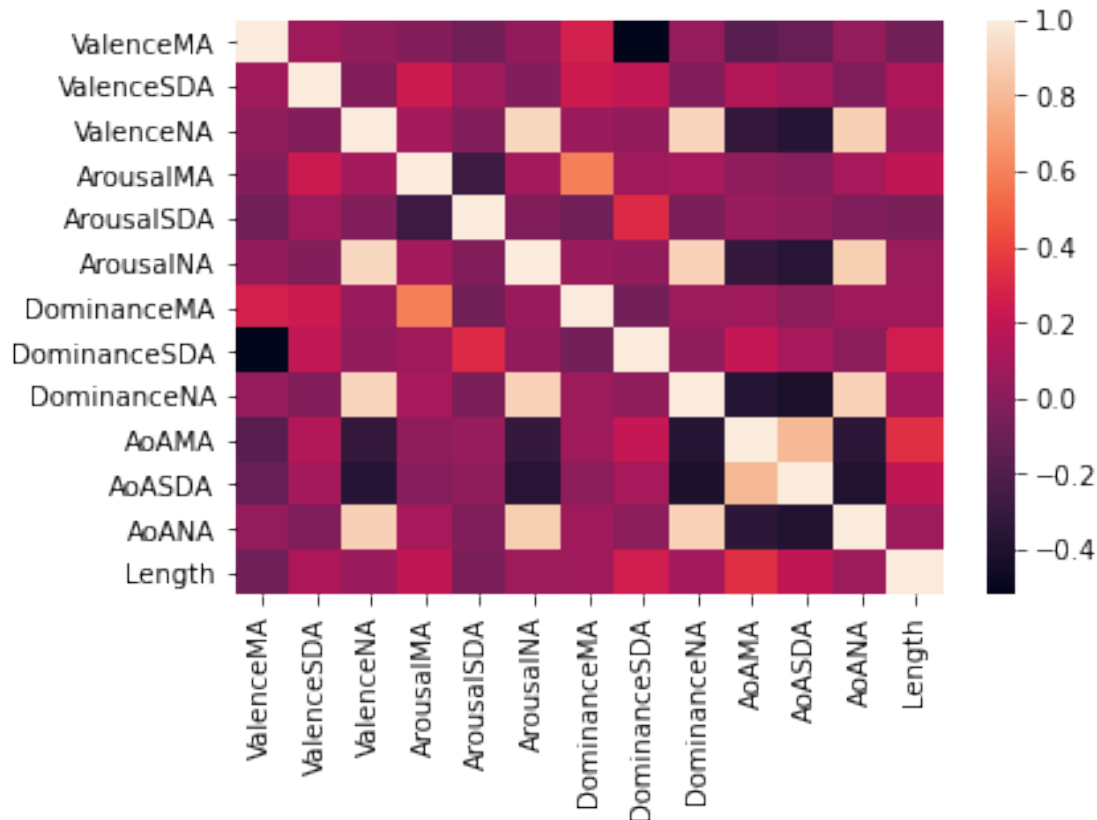
Some correlations here are not so interesting: the variables ending in 'NA' stand for the amount of participants that were in a certain condition. Their correlation with other measures does not reflect pscyhologically or linguisticly interesting findings. In this plot I see five interesting corelations: 1. The Age of aquisition average and its standard diviation. 2. The mean and the standard diviation of Arousal are negativly correlated. 2. The mean of Valence of the standard deviation of Dominance are correlated. 3. Arousal and Dominance mean. 4. The length of a word and the average estimated age of acquisistion
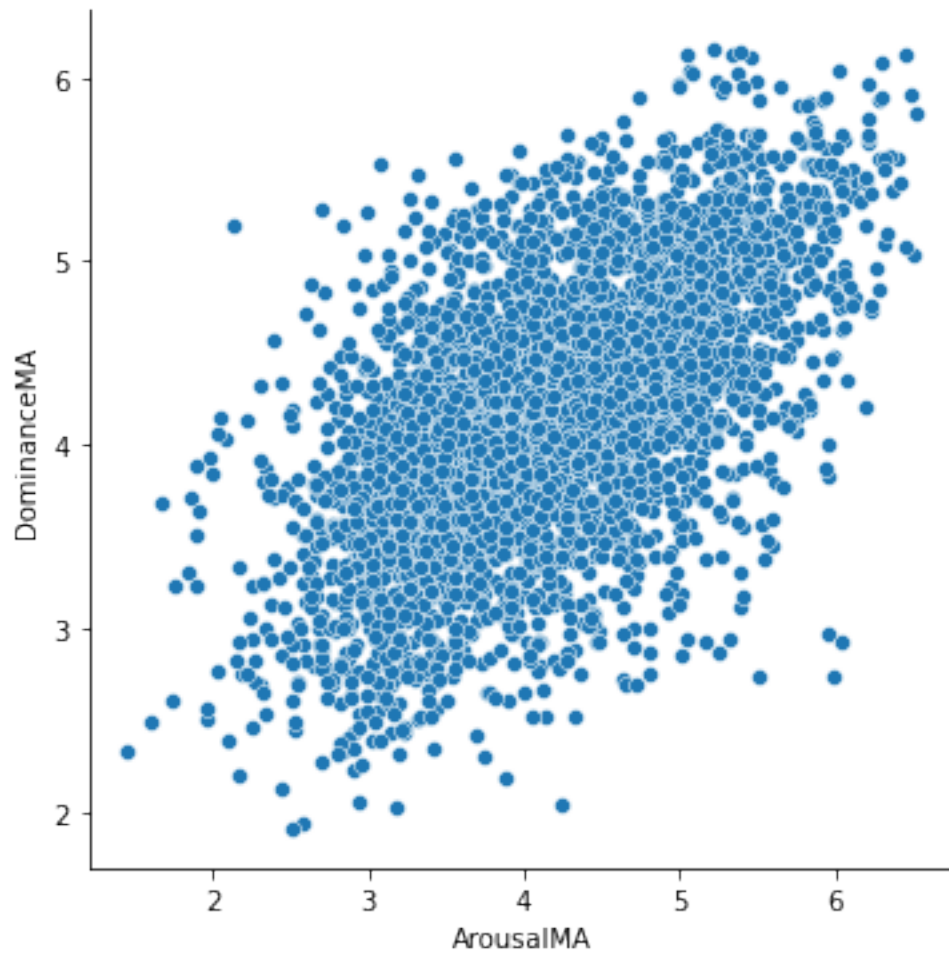
I calculate and plot the last 3 correlations (the other 2 are plotted above)
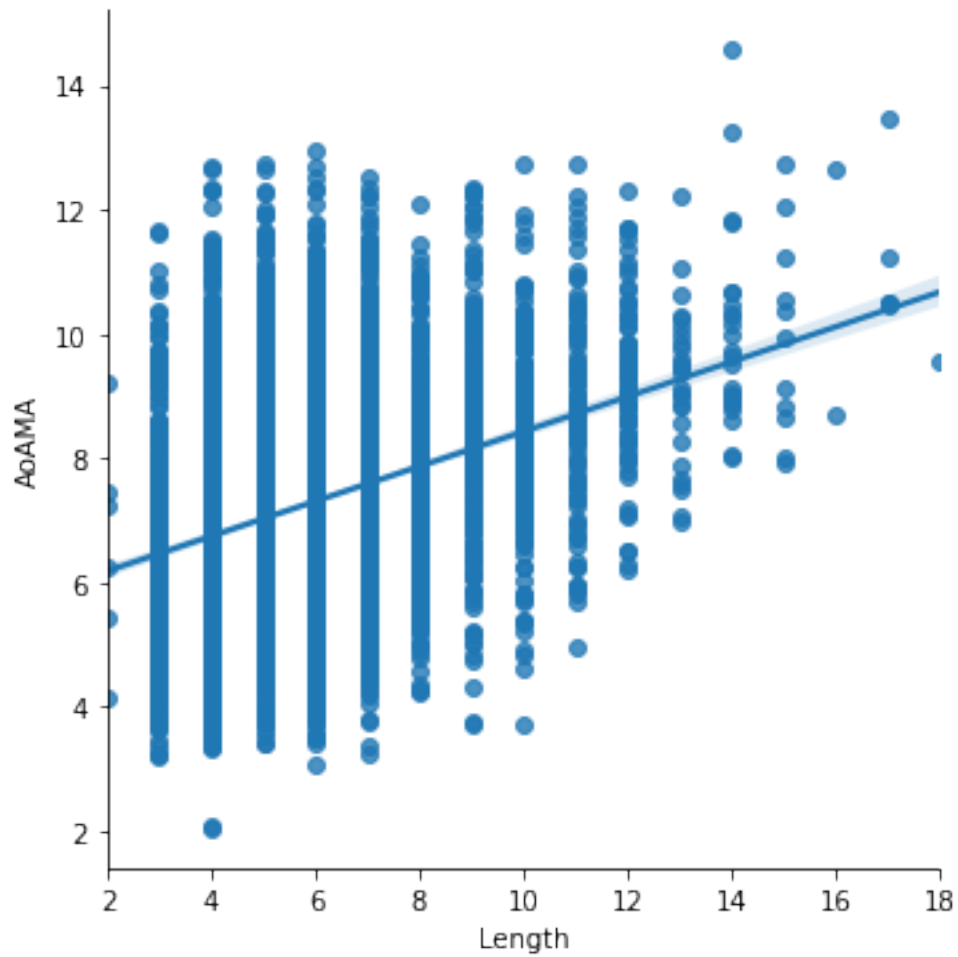
```
[21]: print(Nediedereen['ValenceMA'].corr(Nediedereen['DominanceSDA']))
      sns.relplot(x='ValenceMA', y='DominanceSDA', data= Nediedereen)
      print(Nediedereen['ArousalMA'].corr(Nediedereen['DominanceMA']))
      sns.relplot(x='ArousalMA', y='DominanceMA', data= Nediedereen)
      print(Nediedereen['AoAMA'].corr(Nediedereen['Length']))
      sns.lmplot(x='Length', y='AoAMA', data= Nediedereen)
```

      -0.5216775548635484
      0.5933643808686541
      0.3348386461517908

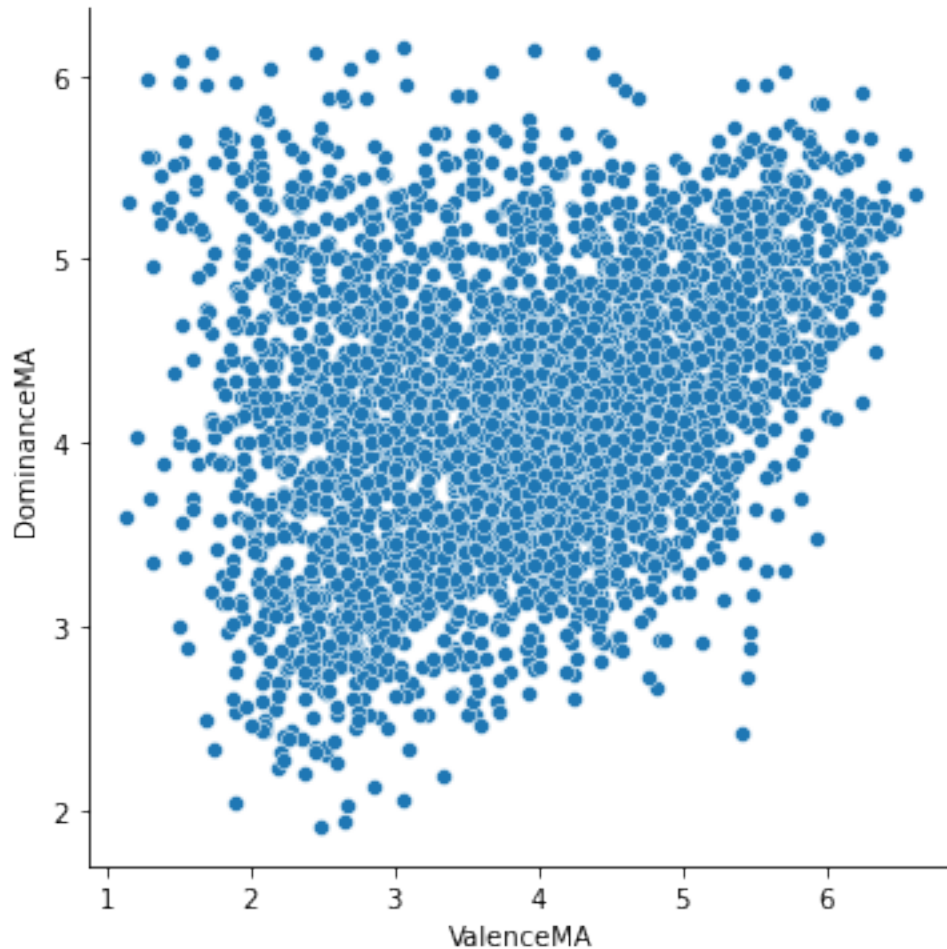[21]: <seaborn.axisgrid.FacetGrid at 0x22dc358c940>
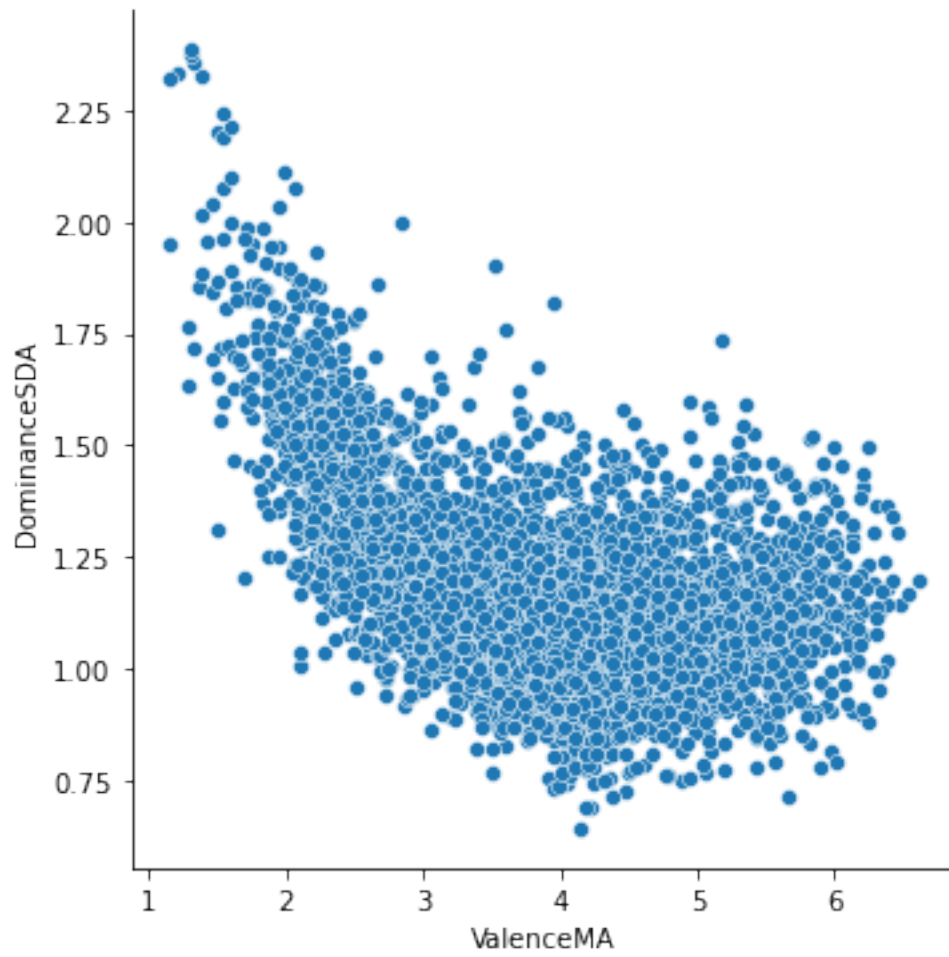
```
[22]: print(Nediedereen['ValenceMA'].corr(Nediedereen['DominanceMA']))
      sns.relplot(x='ValenceMA', y='DominanceMA', data= Nediedereen)
```

0.27066910107519304

```
[22]: <seaborn.axisgrid.FacetGrid at 0x22dc349bee0>
```

The corelation between standard deviation of Dominance and the average Valence rating a word insinuates that the lower the average Valence score of a word, the more participants agreed on what score for dominance it should get. Perhaps words with a more negative meaning are easier to rate in dominance? There is no clear strong correlation between the average Valence and Dominance-score (0.27). There is perhaps a tendency for words with more positive scores to have higher dominance-scores, but as is shown in the last graph, it is not that clear. The second corelation shows that words higher in arousal tend to be also higher in average dominance score. The third corelations shows that the longer a word is, the later in life we learn it.

Next, I would like to show 3 measures in 1 plot. However, to be able to do this I have to convert 1 variable into a categorical variable. For this 2 purposes I will add 1 column to the dataframe.

[23]:
```python
#Make dominance categorical.
DominanceMAlist = Nediedereen['DominanceMA'].to_list()
domcat=[]
for score in DominanceMAlist:
    score1= int(score)
    if score1== 1 or score1==2:
```

```
        score2=1
    if score1== 3 or score1==4 or score1==5:
        score2=2
    if score1==6 or score1==7:
        score2=3
    domcat.append(score2)

#add new columns
Nediedereen['Dominancecategories']= domcat

#make sure these are integers
deel2 = Nediedereen.iloc[:, 15:].astype('int8')
deel1= Nediedereen.iloc[:, :15]
Nediedereen = pd.concat([deel1, deel2], axis=1)

Nediedereen
```

[23]:

	Words	Translation	ValenceMA	ValenceSDA	ValenceNA	ArousalMA \
1	aaien	to stroke	5.203125	0.738503	64.0	3.968750
2	aal	eel	3.421875	0.751817	64.0	3.900000
3	aalmoes	alms	3.296875	0.986893	64.0	3.098361
4	aandachtig	attentive	5.296875	0.682658	64.0	4.875000
5	aangenaam	pleasant	5.937500	0.709907	64.0	3.718750
...	...	...	...	...	...	...
4295	zwijgen	to keep silent	3.656250	0.894760	64.0	2.390625
4296	zwijgzaam	taciturn	3.312500	0.774084	64.0	2.328125
4297	zwijn	pig	3.218750	1.075982	64.0	4.343750
4298	zwoegen	to toil	2.937500	0.906327	64.0	6.062500
4299	zwoel	sultry	5.359375	1.145969	64.0	4.187500

	ArousalSDA	ArousalNA	DominanceMA	DominanceSDA	DominanceNA	AoAMA \
1	1.246821	64.0	3.437500	1.125110	64.0	4.709677
2	1.480953	60.0	3.438596	1.118314	57.0	8.033333
3	1.164831	61.0	2.812500	1.307791	64.0	9.379310
4	1.091089	64.0	4.875000	0.863731	64.0	7.516129
5	1.302851	64.0	4.671875	1.069857	64.0	8.193548
...	...	...	...	...	...	...
4295	1.063346	64.0	3.375000	1.278640	64.0	5.193548
4296	0.992906	64.0	3.250000	1.195229	64.0	8.774194
4297	1.143911	64.0	4.359375	1.145969	64.0	5.774194
4298	0.774084	64.0	4.640625	1.337697	64.0	8.258065
4299	1.500000	64.0	4.269841	1.166831	63.0	9.612903

	AoASDA	AoANA	Length	Dominancecategories
1	2.052536	32.0	5	2
2	2.385059	31.0	3	2
3	2.664767	30.0	7	1

```
4     2.079599    32.0    10                          2
5     2.056200    32.0     9                          2

...        ...       ...    ...                        ...
4295  1.778002    32.0     7                          2
4296  2.499462    32.0     9                          2
4297  2.124613    32.0     5                          2
4298  2.529397    32.0     7                          2
4299  3.283062    32.0     5                          2

[4299 rows x 16 columns]
```

[26]: `sns.lmplot(x='ValenceMA', y='ArousalMA', hue='Dominancecategories',`␣
 `↪palette="Set2", data=Nediedereen)`

[26]: `<seaborn.axisgrid.FacetGrid at 0x22dc4f14e80>`
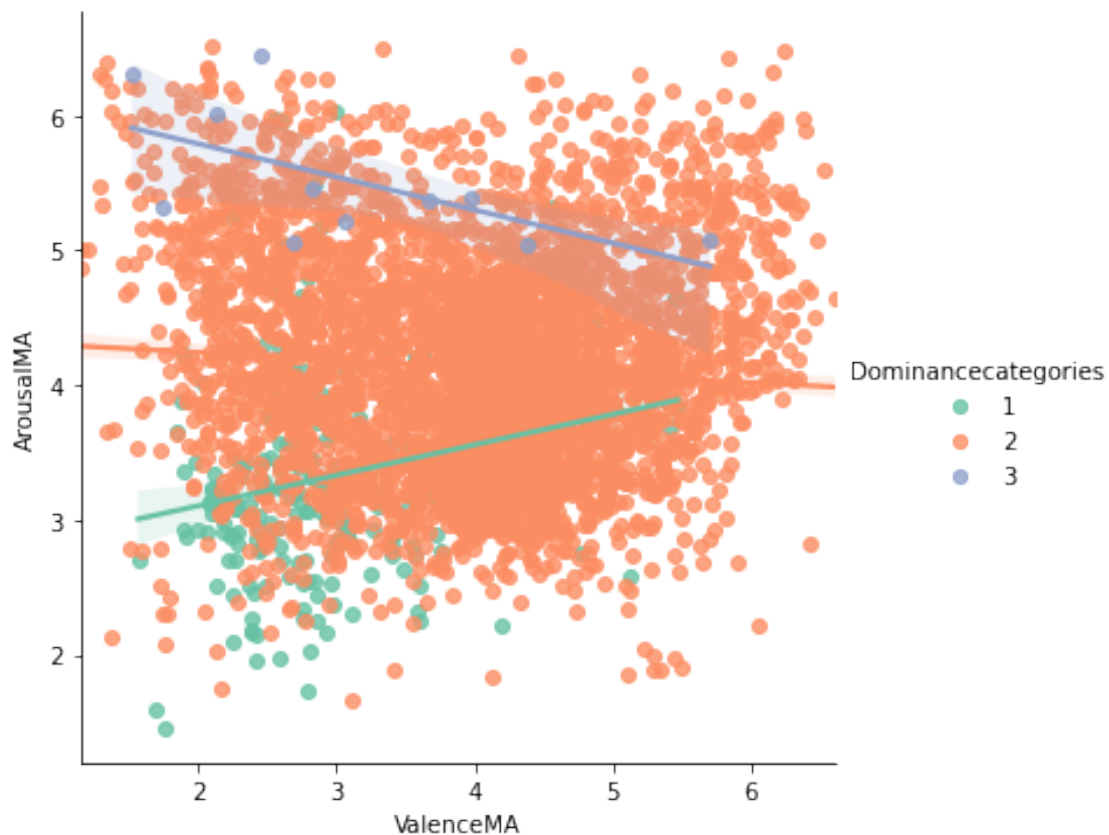
Clearly most words belong to the middle category for the Dominance mean as most dots belong to the 2nd category. Words that score low on Dominance (green dots), tend to score lower on the Valence and Arousal mean as well. Further words that score low for Valence and high for Arousal tend to score higher for Dominance. These words are thus negative words that elecit Arousal in people.

2.0.3 1.3. Comparing men and women

I started out by calculating the corelations between the 4 means for men and women. The corelations are very high signalling that men and women have very similar answers. I plotted the corelation between average Dominance score for men and women and that indeed shows that the scores are very similar: the points lay closely to the diagonal. I did found some differences in the standard diviations for men and women and I plotted the 2 lowest corelations.

```
[28]: print(Dutchmen['ValenceMM'].corr(DutchWOmen['ValenceMW']))
      print(Dutchmen['ArousalMM'].corr(DutchWOmen['ArousalMW']))
      print(Dutchmen['DominanceMM'].corr(DutchWOmen['DominanceMW']))
      print(Dutchmen['AoAMM'].corr(DutchWOmen['AoAMW']))
```

```
0.9754614823939878
0.93476032216309
0.8903846536764525
0.9334071515633618
```

```
[29]: sns.relplot(x='DominanceMM', y='DominanceMW', data=verbeter2)
```

```
[29]: <seaborn.axisgrid.FacetGrid at 0x22dc0c6eaf0>
```
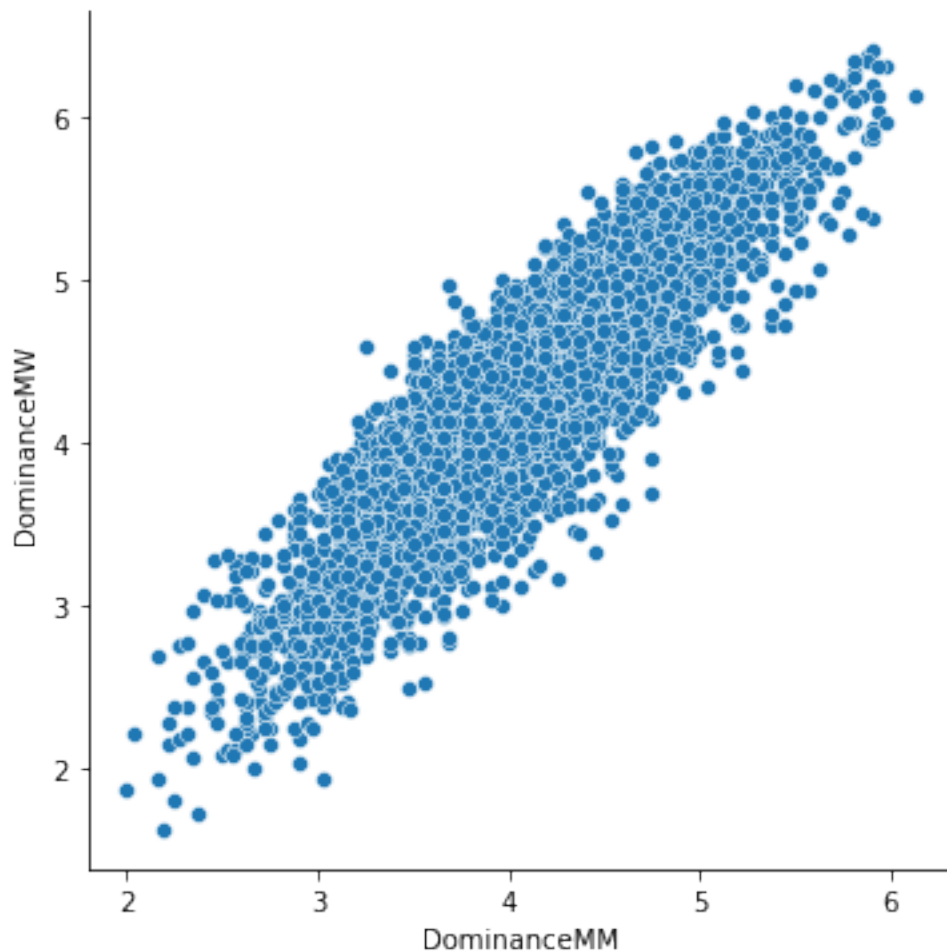
```
[30]: print(Dutchmen['ValenceSDM'].corr(DutchWOmen['ValenceSDW']))
      print(Dutchmen['ArousalSDM'].corr(DutchWOmen['ArousalSDW']))
      print(Dutchmen['DominanceSDM'].corr(DutchWOmen['DominanceSDW']))
      print(Dutchmen['AoASDM'].corr(DutchWOmen['AoASDW']))
```

    0.6156594381718444
    0.38648184588360285
    0.5902569236338875
    0.460180403290785

```
[31]: sns.relplot(x='ArousalSDM', y='ArousalSDW', data=verbeter2)
      sns.relplot(x='AoASDM', y='AoASDW', data=verbeter2)
```

[31]: <seaborn.axisgrid.FacetGrid at 0x22dc5112460>
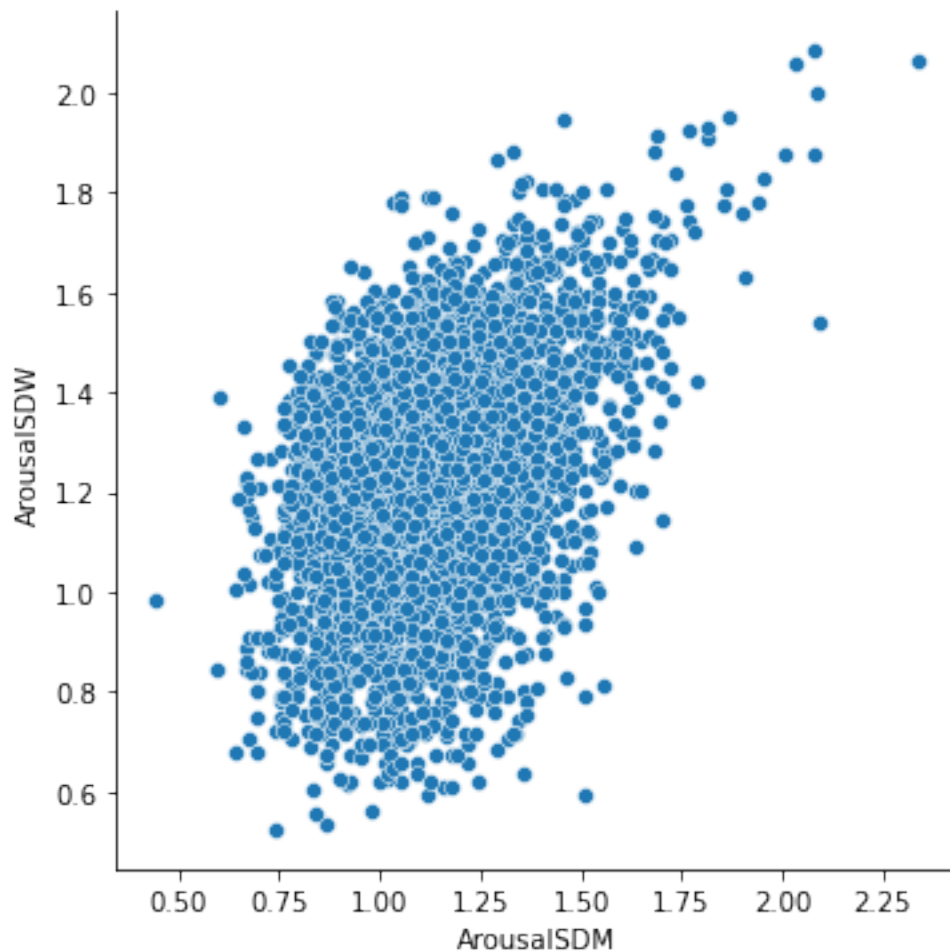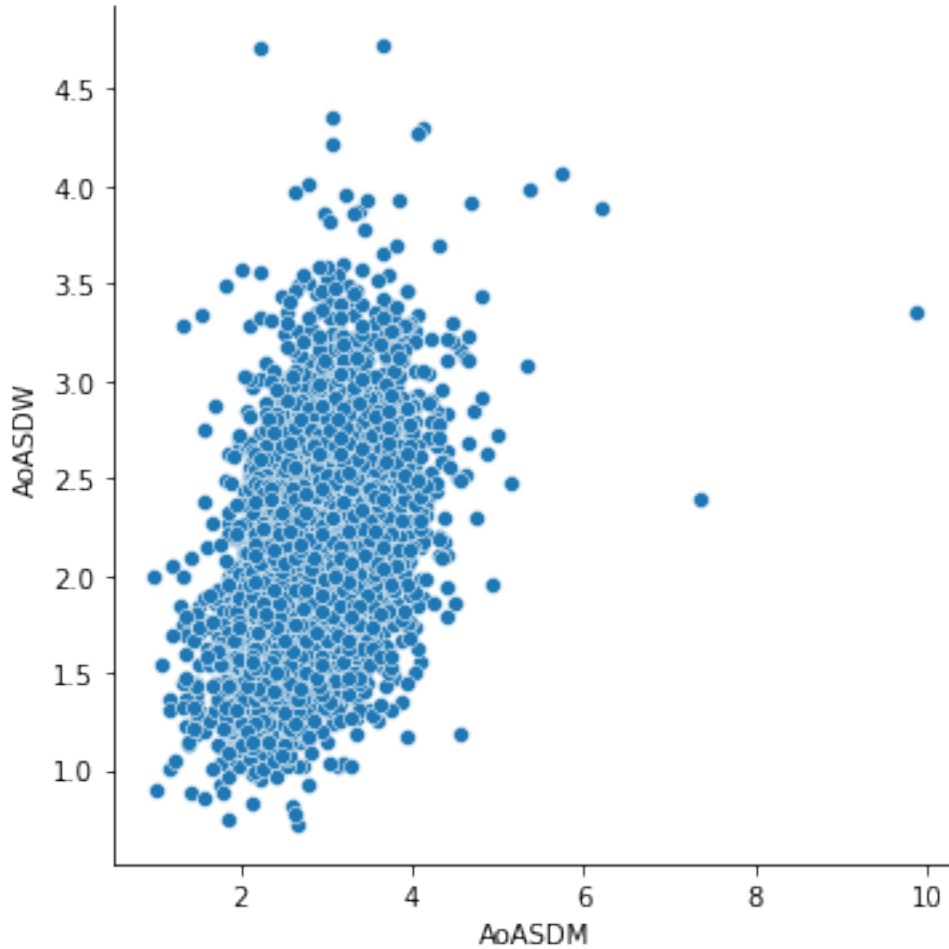
In these 3 plots I mainly want to focus on what points do not lay on the diagonal. Everything on the diagonal shows a perfect corelation. The further the points are away from that, the more men and women differ. For Arousal the most noticable tendency is for women to have a bigger standard diviation then men. Women's answers thus differ more from each other (from the answers of other women) then men's answers (differ from other men's answers). The 'Age of Aquisition'-graph seems to show the same tendency: women's answers differ more then men's answers.

2.0.4 1.4. Conclusion

The Dutch dataset contained information on what people think of certain words. There is information on the average Valence, Arousal and Dominance score that people gave. This information is also seperatly recorded for men and women. First I will discuss the findings for the whole population. The result show that people find words such as 'gelukkig' and 'liefde' high in Valence and 'pedofiel' low. The highest ranked word for Dominance is 'dominant', and the lowest word is 'zwak'. Words such as 'ontploffing', 'hyperactief' and 'orgasme' elecit a lot of Arousal. The lowest ranked word for Arousal was 'levenloos'. People on average think that 'mama' was their first word, while they learned words as 'hypochondrisch' and 'nonconformistisch' the latest.

Overall I would say that there were 4 interesting linear corelations in the data from everyone together (men and women): 1. The Age of aquisition average and its standard diviation. The later people think they learned a word the more of a difference there seems to be between the answers of the participants. 2. The mean and the standard diviation of Arousal are negativly correlated. The higher a word scores on Arousal, the less people differ in their answers. 2. The mean of Valence of the standard deviation of Dominance are correlated. This insinuates that the lower the average Valence score of a word, the more participants agreed on what score for dominance it should get. Perhaps words with a more negative meaning are easier to rate in dominance. 3. The Arousal mean and Dominance mean corelate positivly. The higher a word is rated for Arousal, the higher it is rated for Dominance. 4. The length of a word and the average estimated age of acquisistion. The longer a word, the later in life it gets learned.

I do want to add that the lack of a linear corelation does not mean that there is no relation between 2 variables. For example, there is no remarkable corelation between the mean and the standard deviation of Valence. The plot still shows that there is a pattern: the words that score average on Valence (score 3-5) differ much more in their standard deviations then do words that score high or low on Valence.

Men and women have very similar scores on the means of the 4 important measures: Valence, Dominance, Arousal and Age of Aquisition. Their standard diviations however show an interesting difference: for Arousal and Age of Aquisition there are more differences in the answers of women then the answers of men.

3 2. Analyses on the English words

3.0.1 2.1. A first look

In this section I check what the data looks like. I drop the first column. I understand the labels that are given and will thus not change them. Here is an overview of what they mean. 1. 'A' stands for Arousal, 'V' for Valence and 'D' for dominance 2. The second word states whether it is a mean, a standard diviation or the number of participants 3. The group it applies to is shown last. 'SUM' is for everyone, 'M' is for men, 'F' for women. 'Y' is for younger people and 'O' for older people. 'H' is for people who have a degree of higher education. 'L' stands for people who do not have such a degree.

```
[32]:  print(engels.shape)
       print(engels.columns)
       print(engels.info())
       engels.head()
```

```
(13915, 65)
Index(['Unnamed: 0', 'Word', 'V.Mean.Sum', 'V.SD.Sum', 'V.Rat.Sum',
       'A.Mean.Sum', 'A.SD.Sum', 'A.Rat.Sum', 'D.Mean.Sum', 'D.SD.Sum',
       'D.Rat.Sum', 'V.Mean.M', 'V.SD.M', 'V.Rat.M', 'V.Mean.F', 'V.SD.F',
       'V.Rat.F', 'A.Mean.M', 'A.SD.M', 'A.Rat.M', 'A.Mean.F', 'A.SD.F',
       'A.Rat.F', 'D.Mean.M', 'D.SD.M', 'D.Rat.M', 'D.Mean.F', 'D.SD.F',
       'D.Rat.F', 'V.Mean.Y', 'V.SD.Y', 'V.Rat.Y', 'V.Mean.O', 'V.SD.O',
       'V.Rat.O', 'A.Mean.Y', 'A.SD.Y', 'A.Rat.Y', 'A.Mean.O', 'A.SD.O',
       'A.Rat.O', 'D.Mean.Y', 'D.SD.Y', 'D.Rat.Y', 'D.Mean.O', 'D.SD.O',
```

```
        'D.Rat.O', 'V.Mean.L', 'V.SD.L', 'V.Rat.L', 'V.Mean.H', 'V.SD.H',
        'V.Rat.H', 'A.Mean.L', 'A.SD.L', 'A.Rat.L', 'A.Mean.H', 'A.SD.H',
        'A.Rat.H', 'D.Mean.L', 'D.SD.L', 'D.Rat.L', 'D.Mean.H', 'D.SD.H',
        'D.Rat.H'],
      dtype='object')
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 13915 entries, 0 to 13914
Data columns (total 65 columns):
 #   Column      Non-Null Count  Dtype
---  ------      --------------  -----
 0   Unnamed: 0  13915 non-null  int64
 1   Word        13914 non-null  object
 2   V.Mean.Sum  13915 non-null  float64
 3   V.SD.Sum    13915 non-null  float64
 4   V.Rat.Sum   13915 non-null  int64
 5   A.Mean.Sum  13915 non-null  float64
 6   A.SD.Sum    13915 non-null  float64
 7   A.Rat.Sum   13915 non-null  int64
 8   D.Mean.Sum  13915 non-null  float64
 9   D.SD.Sum    13915 non-null  float64
 10  D.Rat.Sum   13915 non-null  int64
 11  V.Mean.M    13915 non-null  float64
 12  V.SD.M      13915 non-null  float64
 13  V.Rat.M     13915 non-null  int64
 14  V.Mean.F    13915 non-null  float64
 15  V.SD.F      13915 non-null  float64
 16  V.Rat.F     13915 non-null  int64
 17  A.Mean.M    13915 non-null  float64
 18  A.SD.M      13915 non-null  float64
 19  A.Rat.M     13915 non-null  int64
 20  A.Mean.F    13915 non-null  float64
 21  A.SD.F      13915 non-null  float64
 22  A.Rat.F     13915 non-null  int64
 23  D.Mean.M    13915 non-null  float64
 24  D.SD.M      13915 non-null  float64
 25  D.Rat.M     13915 non-null  int64
 26  D.Mean.F    13915 non-null  float64
 27  D.SD.F      13915 non-null  float64
 28  D.Rat.F     13915 non-null  int64
 29  V.Mean.Y    13915 non-null  float64
 30  V.SD.Y      13915 non-null  float64
 31  V.Rat.Y     13915 non-null  int64
 32  V.Mean.O    13915 non-null  float64
 33  V.SD.O      13915 non-null  float64
 34  V.Rat.O     13915 non-null  int64
 35  A.Mean.Y    13915 non-null  float64
 36  A.SD.Y      13915 non-null  float64
 37  A.Rat.Y     13915 non-null  int64
```

```
38  A.Mean.O     13915 non-null  float64
39  A.SD.O       13915 non-null  float64
40  A.Rat.O      13915 non-null  int64
41  D.Mean.Y     13915 non-null  float64
42  D.SD.Y       13915 non-null  float64
43  D.Rat.Y      13915 non-null  int64
44  D.Mean.O     13915 non-null  float64
45  D.SD.O       13915 non-null  float64
46  D.Rat.O      13915 non-null  int64
47  V.Mean.L     13915 non-null  float64
48  V.SD.L       13915 non-null  float64
49  V.Rat.L      13915 non-null  int64
50  V.Mean.H     13915 non-null  float64
51  V.SD.H       13915 non-null  float64
52  V.Rat.H      13915 non-null  int64
53  A.Mean.L     13915 non-null  float64
54  A.SD.L       13915 non-null  float64
55  A.Rat.L      13915 non-null  int64
56  A.Mean.H     13915 non-null  float64
57  A.SD.H       13914 non-null  float64
58  A.Rat.H      13915 non-null  int64
59  D.Mean.L     13915 non-null  float64
60  D.SD.L       13915 non-null  float64
61  D.Rat.L      13915 non-null  int64
62  D.Mean.H     13915 non-null  float64
63  D.SD.H       13915 non-null  float64
64  D.Rat.H      13915 non-null  int64
dtypes: float64(42), int64(22), object(1)
memory usage: 6.9+ MB
None
```

[32]:
```
   Unnamed: 0         Word  V.Mean.Sum  V.SD.Sum  V.Rat.Sum  A.Mean.Sum  \
0           1      aardvark        6.26      2.21         19        2.41
1           2       abalone        5.30      1.59         20        2.65
2           3       abandon        2.84      1.54         19        3.73
3           4   abandonment        2.63      1.74         19        4.95
4           5         abbey        5.85      1.69         20        2.20

   A.SD.Sum  A.Rat.Sum  D.Mean.Sum  D.SD.Sum  …  A.Rat.L  A.Mean.H  A.SD.H  \
0      1.40         22        4.27      1.75  …       11      2.55    1.29
1      1.90         20        4.95      1.79  …       12      2.38    1.92
2      2.43         22        3.32      2.50  …       11      3.82    2.14
3      2.64         21        2.64      1.81  …       14      5.29    2.63
4      1.70         20        5.00      2.02  …        9      2.55    1.92

   A.Rat.H  D.Mean.L  D.SD.L  D.Rat.L  D.Mean.H  D.SD.H  D.Rat.H
0       11      4.12    1.64        8      4.43    1.99        7
```

```
1         8       5.55    2.21        11      4.36    1.03        11
2        11       2.77    2.09        13      4.11    2.93         9
3         7       2.31    1.45        16      3.08    2.19        12
4        11       4.83    2.18        18      5.43    1.62         7
```

[5 rows x 65 columns]

```
[33]: engels.drop('Unnamed: 0', axis=1, inplace=True)
```

```
[34]: engels.head()
```

```
[34]:          Word  V.Mean.Sum  V.SD.Sum  V.Rat.Sum  A.Mean.Sum  A.SD.Sum  \
      0      aardvark        6.26      2.21         19        2.41      1.40
      1       abalone        5.30      1.59         20        2.65      1.90
      2       abandon        2.84      1.54         19        3.73      2.43
      3   abandonment        2.63      1.74         19        4.95      2.64
      4         abbey        5.85      1.69         20        2.20      1.70

         A.Rat.Sum  D.Mean.Sum  D.SD.Sum  D.Rat.Sum  ...  A.Rat.L  A.Mean.H  A.SD.H  \
      0         22        4.27      1.75         15   ...       11      2.55    1.29
      1         20        4.95      1.79         22   ...       12      2.38    1.92
      2         22        3.32      2.50         22   ...       11      3.82    2.14
      3         21        2.64      1.81         28   ...       14      5.29    2.63
      4         20        5.00      2.02         25   ...        9      2.55    1.92

         A.Rat.H  D.Mean.L  D.SD.L  D.Rat.L  D.Mean.H  D.SD.H  D.Rat.H
      0       11      4.12    1.64        8      4.43    1.99        7
      1        8      5.55    2.21       11      4.36    1.03       11
      2       11      2.77    2.09       13      4.11    2.93        9
      3        7      2.31    1.45       16      3.08    2.19       12
      4       11      4.83    2.18       18      5.43    1.62        7
```

[5 rows x 64 columns]

3.0.2   2.2. Analyses on the whole population

In this section I first inspect what the whole dataset looks like and what the highest and lowest ranked words are for Valence, Dominance and Arousal. I also make graphs of the standard diviations and the means. Then I check all the correlations and plot the most interesting ones.

```
[62]: engels.describe()
```

```
[62]:           V.Mean.Sum      V.SD.Sum     V.Rat.Sum    A.Mean.Sum      A.SD.Sum  \
      count  13915.000000  13915.000000  13915.000000  13915.000000  13915.000000
      mean       5.063847      1.679261     21.812433      4.210582      2.300198
      std        1.274892      0.350281     23.441875      0.896413      0.320252
      min        1.260000      0.310000     16.000000      1.600000      0.880000
      25%        4.250000      1.430000     19.000000      3.560000      2.080000
```

50%	5.200000	1.670000	20.000000	4.110000	2.300000
75%	5.950000	1.910000	21.000000	4.760000	2.520000
max	8.530000	3.290000	872.000000	7.790000	3.360000

	A.Rat.Sum	D.Mean.Sum	D.SD.Sum	D.Rat.Sum	V.Mean.M \
count	13915.000000	13915.000000	13915.000000	13915.000000	13915.000000
mean	22.974057	5.184773	2.159786	24.315128	5.133611
std	24.726507	0.938284	0.328592	25.066800	1.288822
min	16.000000	1.680000	0.780000	14.000000	1.000000
25%	20.000000	4.580000	1.940000	20.000000	4.330000
50%	21.000000	5.260000	2.170000	22.000000	5.250000
75%	23.000000	5.840000	2.380000	25.000000	6.000000
max	919.000000	7.900000	3.370000	980.000000	8.670000

	…	A.Rat.L	A.Mean.H	A.SD.H	A.Rat.H \
count	…	13915.000000	13915.000000	13914.000000	13915.000000
mean	…	12.733956	4.284328	2.171885	10.240101
std	…	13.958102	1.093094	0.514230	11.379156
min	…	5.000000	1.120000	0.000000	1.000000
25%	…	10.000000	3.500000	1.850000	8.000000
50%	…	11.000000	4.200000	2.190000	10.000000
75%	…	14.000000	5.000000	2.510000	12.000000
max	…	509.000000	8.670000	4.620000	411.000000

	D.Mean.L	D.SD.L	D.Rat.L	D.Mean.H	D.SD.H \
count	13915.000000	13915.000000	13915.000000	13915.000000	13915.000000
mean	5.196908	2.218375	13.237657	5.170126	2.024414
std	1.051368	0.465165	13.913171	1.074364	0.504523
min	1.670000	0.520000	5.000000	1.330000	0.000000
25%	4.500000	1.900000	9.000000	4.500000	1.670000
50%	5.250000	2.220000	12.000000	5.250000	2.030000
75%	5.920000	2.540000	16.000000	5.920000	2.380000
max	8.570000	3.850000	534.000000	8.670000	4.620000

	D.Rat.H
count	13915.000000
mean	11.077470
std	11.675659
min	2.000000
25%	9.000000
50%	10.000000
75%	12.000000
max	447.000000

[8 rows x 63 columns]

```python
[35]: #see the highest and lowest ranked words on valence
      engels.sort_values('V.Mean.Sum', ascending = False)
```

[35]:

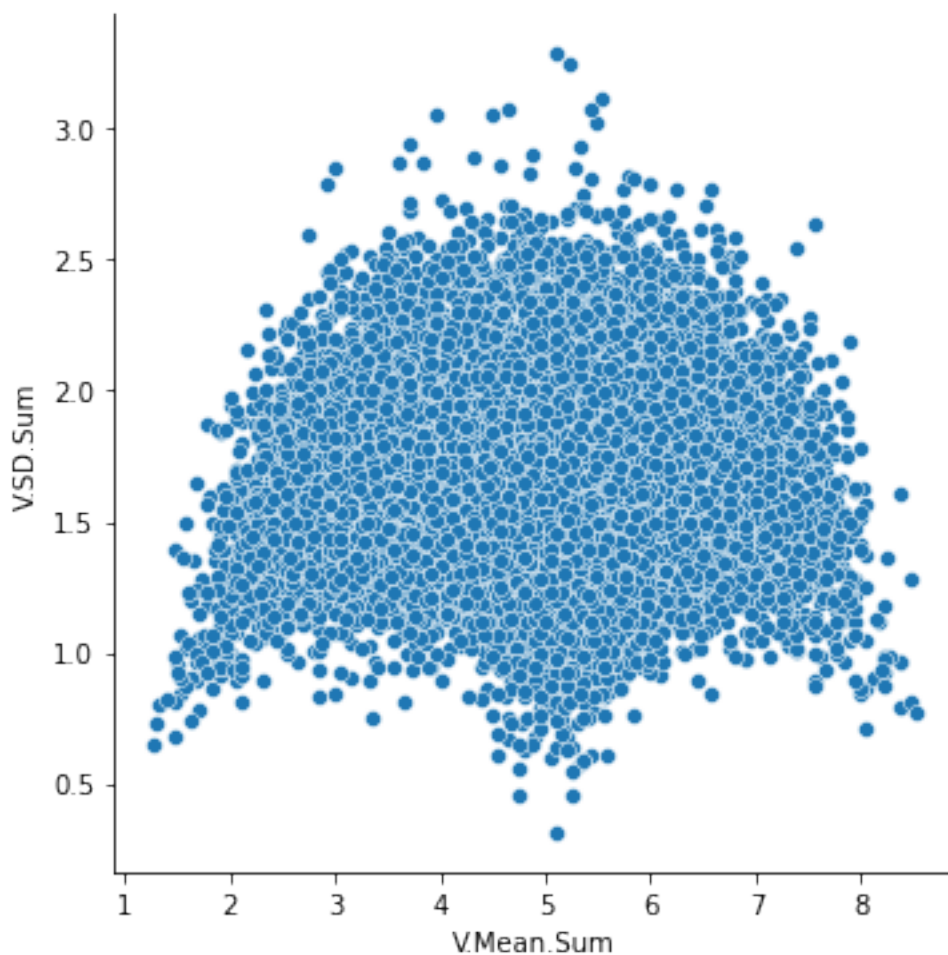|	Word	V.Mean.Sum	V.SD.Sum	V.Rat.Sum	A.Mean.Sum	A.SD.Sum	\
13282	vacation	8.53	0.77	19	5.22	2.92	
5594	happiness	8.48	0.81	21	6.50	2.63	
5595	happy	8.47	1.28	43	6.05	2.13	
2079	christmas	8.37	1.61	19	5.90	2.99	
5007	fun	8.37	0.96	19	6.32	2.62	
...	...	...	...	...	...	...	
7045	leukemia	1.47	1.39	19	5.75	2.38	
12660	torture	1.40	0.82	20	5.09	2.55	
253	AIDS	1.33	0.80	21	5.00	2.60	
9862	rapist	1.30	0.73	20	6.33	2.39	
8846	pedophile	1.26	0.65	19	5.05	3.21	

	A.Rat.Sum	D.Mean.Sum	D.SD.Sum	D.Rat.Sum	...	A.Rat.L	A.Mean.H	\
13282	49	7.11	2.03	47	...	33	3.94	
5594	20	7.05	2.16	21	...	14	6.67	
5595	21	7.21	1.96	62	...	10	5.64	
2079	49	6.14	2.46	43	...	33	6.19	
5007	41	7.04	1.85	46	...	30	5.64	
...	...	...	...	...	...	...	...	
7045	20	2.83	2.35	24	...	10	6.80	
12660	45	2.76	2.05	45	...	29	5.31	
253	20	3.55	2.77	22	...	13	5.29	
9862	21	2.21	2.19	34	...	14	6.86	
8846	22	3.37	2.04	27	...	16	5.83	

	A.SD.H	A.Rat.H	D.Mean.L	D.SD.L	D.Rat.L	D.Mean.H	D.SD.H	D.Rat.H
13282	3.11	16	6.73	2.29	26	7.57	1.60	21
5594	2.42	6	7.25	1.96	12	6.78	2.49	9
5595	2.16	11	7.05	2.28	39	7.48	1.24	23
2079	3.08	16	6.33	2.46	24	5.89	2.49	19
5007	2.84	11	7.18	1.98	28	6.83	1.65	18
...	...	...	...	...	...	...	...	...
7045	1.69	10	2.56	2.55	9	3.00	2.30	15
12660	2.41	16	2.88	2.18	26	2.58	1.89	19
253	2.93	7	3.75	2.93	12	3.30	2.71	10
9862	2.12	7	2.88	2.87	17	1.53	0.80	17
8846	2.71	6	3.58	2.11	12	3.20	2.04	15

[13915 rows x 64 columns]

```python
[36]: sns.relplot(x='V.Mean.Sum', y='V.SD.Sum', data=engels)
```

[36]: <seaborn.axisgrid.FacetGrid at 0x22dc507fa90>

```
[37]:  #see the highest and lowest ranked words on dominance
        engels.sort_values('D.Mean.Sum', ascending = False)
```

[37]:

	Word	V.Mean.Sum	V.SD.Sum	V.Rat.Sum	A.Mean.Sum	A.SD.Sum	\
8699	paradise	7.00	2.33	22	4.82	2.95	
13732	win	6.97	2.09	40	5.61	3.24	
10889	self	6.86	1.64	22	4.78	2.97	
6260	incredible	7.59	2.11	22	6.35	2.87	
2441	completion	7.38	1.72	21	4.24	2.68	
...	...	...	...	...	...	...	
13011	uncontrollable	3.84	1.83	19	5.81	2.06	
3912	earthquake	3.05	2.09	21	6.76	2.39	
7179	lobotomy	2.45	2.13	22	5.32	2.65	
345	alzheimers	2.26	1.82	19	4.50	2.35	
3259	dementia	2.85	1.57	20	5.05	2.46	

| A.Rat.Sum	D.Mean.Sum	D.SD.Sum	D.Rat.Sum	...	A.Rat.L	A.Mean.H	\

```
8699        22      7.90    1.58        21   …         9      4.62
13732       23      7.86    1.32        22   …        11      6.17
10889       23      7.74    1.73        19   …         9      5.07
6260        20      7.74    1.91        19   …         7      5.54
2441        25      7.73    1.28        22   …        17      5.00

…           …       …       …           …    …         …
13011       21      2.18    1.26        22   …         8      5.77
3912        21      2.14    1.46        22   …         8      6.77
7179        19      2.00    1.55        21   …         8      5.64
345         22      2.00    1.68        23   …        11      5.18
3259        22      1.68    0.95        19   …        12      5.80
```

	A.SD.H	A.Rat.H	D.Mean.L	D.SD.L	D.Rat.L	D.Mean.H	D.SD.H	D.Rat.H
8699	3.25	13	7.92	1.26	13	7.88	2.10	8
13732	3.01	12	7.86	1.51	14	7.88	0.99	8
10889	3.05	14	7.62	1.82	16	8.33	1.15	3
6260	3.15	13	7.71	2.21	7	7.75	1.82	12
2441	2.27	8	7.70	1.34	10	7.75	1.29	12
…	…	…	…	…	…	…		
13011	2.09	13	2.25	1.42	12	2.10	1.10	10
3912	2.42	13	2.17	1.34	12	2.10	1.66	10
7179	2.58	11	2.22	1.92	9	1.83	1.27	12
345	2.32	11	2.23	2.05	13	1.70	1.06	10
3259	2.44	10	1.83	1.17	6	1.62	0.87	13

```
[13915 rows x 64 columns]
```

[38]: `sns.relplot(x='D.Mean.Sum', y='D.SD.Sum', data=engels)`

[38]: `<seaborn.axisgrid.FacetGrid at 0x22dc504b640>`
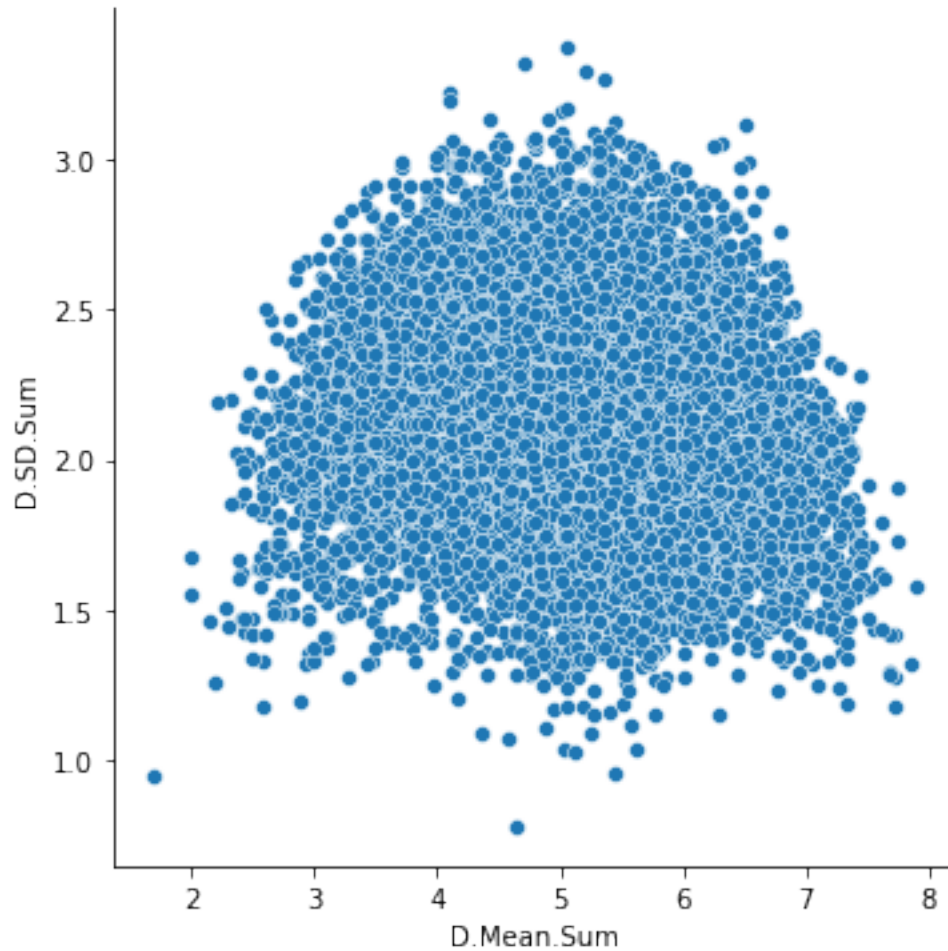
```
[39]: #see the highest and lowest ranked words on arousal
      engels.sort_values('A.Mean.Sum', ascending = False)
```

[39]:

	Word	V.Mean.Sum	V.SD.Sum	V.Rat.Sum	A.Mean.Sum	A.SD.Sum	\
6423	insanity	2.70	1.81	20	7.79	1.44	
5487	gun	3.66	2.55	41	7.74	1.91	
10977	sex	6.73	2.07	22	7.60	2.01	
9845	rampage	4.21	1.99	19	7.57	1.43	
7251	lover	8.05	1.25	22	7.45	2.04	
...	...	...	...	...	...	...	
11485	soothing	7.05	1.66	21	1.91	1.31	
7062	librarian	6.38	1.66	21	1.75	1.19	
3859	dull	3.40	0.94	20	1.67	1.03	
1701	calm	6.89	2.00	18	1.67	1.91	
5323	grain	5.83	1.20	18	1.60	0.88	

	A.Rat.Sum	D.Mean.Sum	D.SD.Sum	D.Rat.Sum	...	A.Rat.L	A.Mean.H	\
```

```
6423        19        4.12    2.39    26    …    12    7.14
5487        19        4.71    2.91    48    …    11    6.62
10977       915       6.17    2.55    40    …    504   7.64
9845        21        4.43    2.50    23    …    11    7.70
7251        20        6.37    2.17    19    …    7     7.00

...         ...       ...     ...     ...  ...   ...
11485       22        5.76    1.67    21    …    9     2.08
7062        24        5.00    2.91    19    …    16    1.38
3859        18        4.71    2.51    24    …    12    1.67
1701        21        7.44    2.28    18    …    12    2.00
5323        20        5.12    1.72    25    …    11    1.78

        A.SD.H  A.Rat.H  D.Mean.L  D.SD.L  D.Rat.L  D.Mean.H  D.SD.H  D.Rat.H
6423    1.86    7        4.31      2.30    16       3.80      2.62    10
5487    2.50    8        5.19      2.80    26       4.14      3.00    22
10977   1.87    411      5.60      2.87    15       6.52      2.33    25
9845    0.95    10       4.14      2.51    14       4.89      2.57    9
7251    2.38    13       7.14      1.57    7        5.92      2.39    12

...     ...     ...      ...       ...     ...      ...
11485   1.44    13       5.42      1.83    12       6.22      1.39    9
7062    0.74    8        4.67      3.03    12       5.57      2.82    7
3859    1.21    6        4.53      2.72    15       5.00      2.24    9
1701    2.65    9        6.78      2.95    9        8.11      1.17    9
5323    1.09    9        4.79      1.65    19       6.17      1.60    6

[13915 rows x 64 columns]
```

[40]: `sns.relplot(x='A.Mean.Sum', y='A.SD.Sum', data=engels)`

[40]: `<seaborn.axisgrid.FacetGrid at 0x22dc506a790>`

The tables show the 5 highest ranked words for the chosen variable, f.e. Valence, and the lowest ranked words. The highest and lowest ranked words do not suprise me. Undernead each table there is a scatterplot with the mean and standard diviation of the variable. The means of Valence and Dominance do not seem to be linked to their respective standard diviations (although this will be calculated later to confirm this idea). The average and the standard diviation of Arousal do seem to be linked to each other. For higher scores on the Arousal measure there seem to be higher standard diviations. This means that the higher words score on average on Arousal, the more people's answers differ in what score they would give a word. A word like 'grain', ranked lowest for Arousal, could thus be easier to agree on then what score 'lover' should get. The words that yield an average score of 4 or 5 seem to have the highest standard diviations. That means that the relationship is not exactly a lineair corelation.

Let's corelate the corelations between the different measures.

```
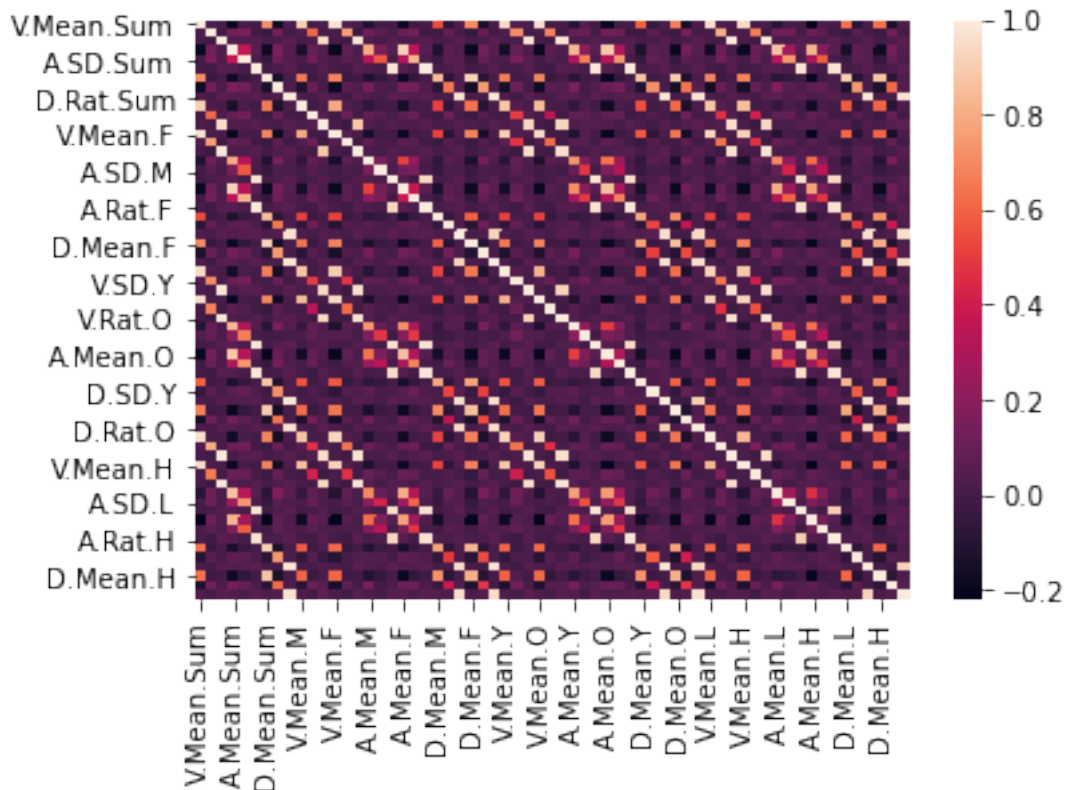[41]: engcor = engels.corr()
      sns.heatmap(engcor)
```

[41]: <AxesSubplot:>

36

This representation is hard to interpret. Therefor I will calculate the corelations seperataly in the next cells. After all correlations are calcultated I will try to interpret them.

```
[42]: print('V mean and V SD')
      print(engels['V.Mean.Sum'].corr(engels['V.SD.Sum']))
      print('V mean and A SD')
      print(engels['V.Mean.Sum'].corr(engels['A.SD.Sum']))
      print('V mean and D SD')
      print(engels['V.Mean.Sum'].corr(engels['D.SD.Sum']))
      print('V mean and D mean')
      print(engels['V.Mean.Sum'].corr(engels['D.Mean.Sum']))
      print('V mean and A mean')
      print(engels['V.Mean.Sum'].corr(engels['A.Mean.Sum']))
```

```
V mean and V SD
0.020417692407904458
V mean and A SD
0.010799499968058509
V mean and D SD
-0.1679502800731132
V mean and D mean
0.7166292080212395
```

```
V mean and A mean
-0.1848259325933808
```

[43]:
```python
print('A mean and V SD')
print(engels['A.Mean.Sum'].corr(engels['V.SD.Sum']))
print('A mean and A SD')
print(engels['A.Mean.Sum'].corr(engels['A.SD.Sum']))
print('A mean and D SD')
print(engels['A.Mean.Sum'].corr(engels['D.SD.Sum']))
print('A mean and D mean')
print(engels['A.Mean.Sum'].corr(engels['D.Mean.Sum']))
```

```
A mean and V SD
0.14021076053616371
A mean and A SD
0.36008599927239393
A mean and D SD
0.15729423812568136
A mean and D mean
-0.17999185926500058
```

[44]:
```python
print('D mean and V SD')
print(engels['D.Mean.Sum'].corr(engels['V.SD.Sum']))
print('D mean and A SD')
print(engels['D.Mean.Sum'].corr(engels['A.SD.Sum']))
print('D mean and D SD')
print(engels['D.Mean.Sum'].corr(engels['D.SD.Sum']))
```

```
D mean and V SD
-0.03745336186639275
D mean and A SD
-0.05251475769362758
D mean and D SD
-0.13989339125144887
```

[45]:
```python
print('V SD and A SD')
print(engels['V.SD.Sum'].corr(engels['A.SD.Sum']))
print('V SD and D SD')
print(engels['V.SD.Sum'].corr(engels['D.SD.Sum']))
print('A SD and D SD')
print(engels['A.SD.Sum'].corr(engels['D.SD.Sum']))
```

```
V SD and A SD
0.15720694715288702
V SD and D SD
0.13055186530006282
A SD and D SD
0.11815876902697164
```

The average of Valence and Dominance correlate quite strongly. The corelation between the means

of Valence and Arousal seems insignificant (-0.18). It is remarkable however that the corelation between the average of Dominance and Arousal is very similar (-0.18). I wil therefor plot the relations between the pairs of variables in the next cells.

Most standard diviations do not have remarkable correlations with other variables. The Arousal mean and standard diviation correlation is the highest (0.36) and has been plotted before.

```
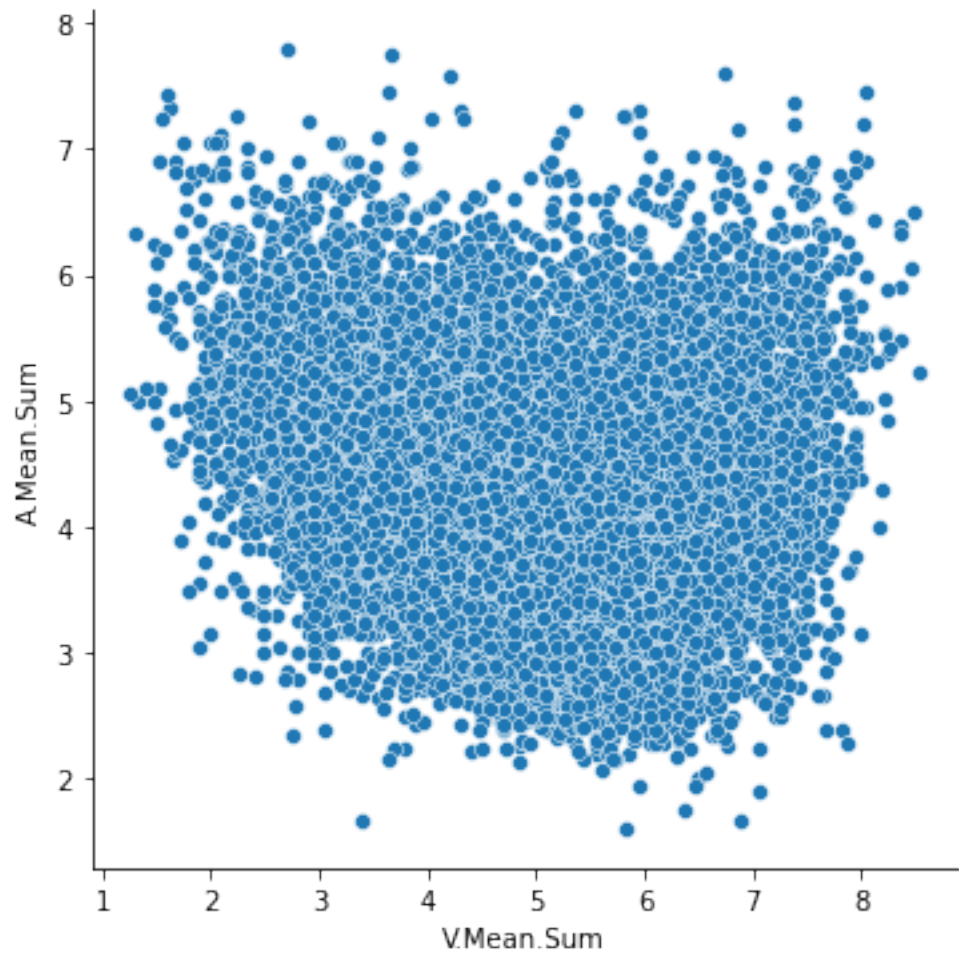[40]: sns.relplot(x='V.Mean.Sum', y='D.Mean.Sum', data=engels)
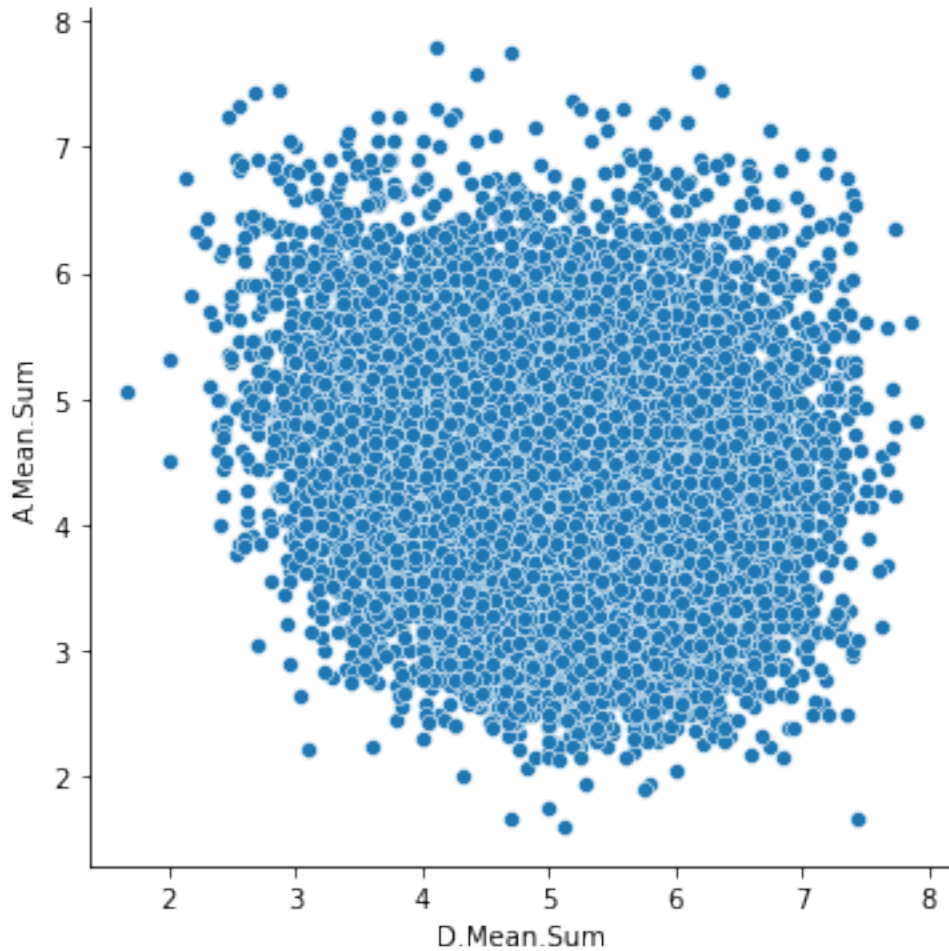```

[40]: <seaborn.axisgrid.FacetGrid at 0x20957bb4760>
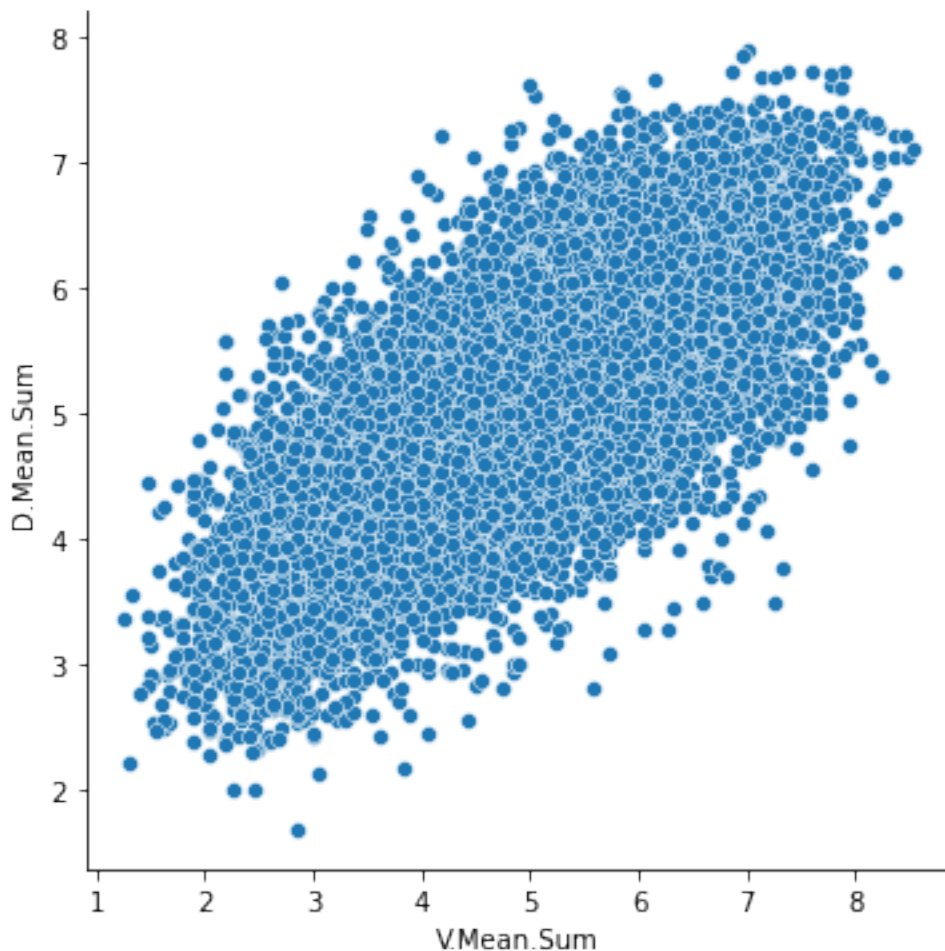


```
[41]: sns.relplot(x='V.Mean.Sum', y='A.Mean.Sum', data=engels)
      sns.relplot(x='D.Mean.Sum', y='A.Mean.Sum', data=engels)
```

[41]: <seaborn.axisgrid.FacetGrid at 0x2095449f520>

The graphs show a lineair relationship between the average of Valence and Dominance. Words that are rated more positivly are also seen as more dominant. There seem to be no clear relationship between Arousal and Valence or Arousal and Dominance, except for the fact that the down left corner in the graphs is empty. There are no words that score low on both Dominance and Arousal. Further, there are no words that score low on Valence and low on Dominance.

3.0.3 2.3. Analyses on men and women

In this section I compare the means and standard diviations of men and women. I try to find interesting differences. I further explore the standard diviations of Valence as it had an interesting distribution.

```
[46]: print(engels['V.Mean.M'].corr(engels['V.Mean.F']))
      print(engels['A.Mean.M'].corr(engels['A.Mean.F']))
      print(engels['D.Mean.M'].corr(engels['D.Mean.F']))
      print(engels['V.SD.M'].corr(engels['V.SD.F']))
      print(engels['A.SD.M'].corr(engels['A.SD.F']))
      print(engels['D.SD.M'].corr(engels['D.SD.F']))
```

41

```
0.7892158707768634
0.516513215580856
0.5927126260386144
0.11769821899043922
0.15246400541886254
0.11855585321560129
```

The corelation between the averages for men and women are pretty high. The other corelations however suggest differences between these 2 genders. I think it is therefor interesting to plot them.

```
[47]: sns.relplot(x='V.SD.M', y='V.SD.F', data=engels)
      sns.relplot(x='D.SD.M', y='D.SD.F', data=engels)
      sns.relplot(x='A.SD.M', y='A.SD.F', data=engels)
```

[47]: <seaborn.axisgrid.FacetGrid at 0x22dc0d8bca0>
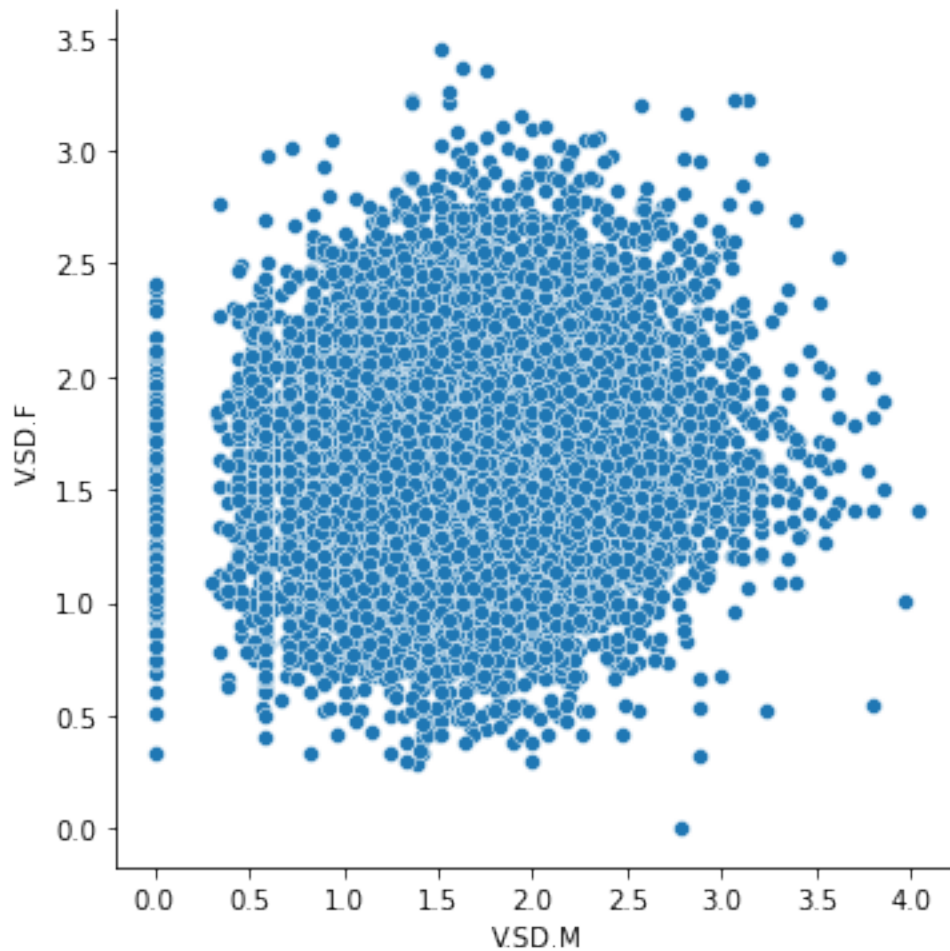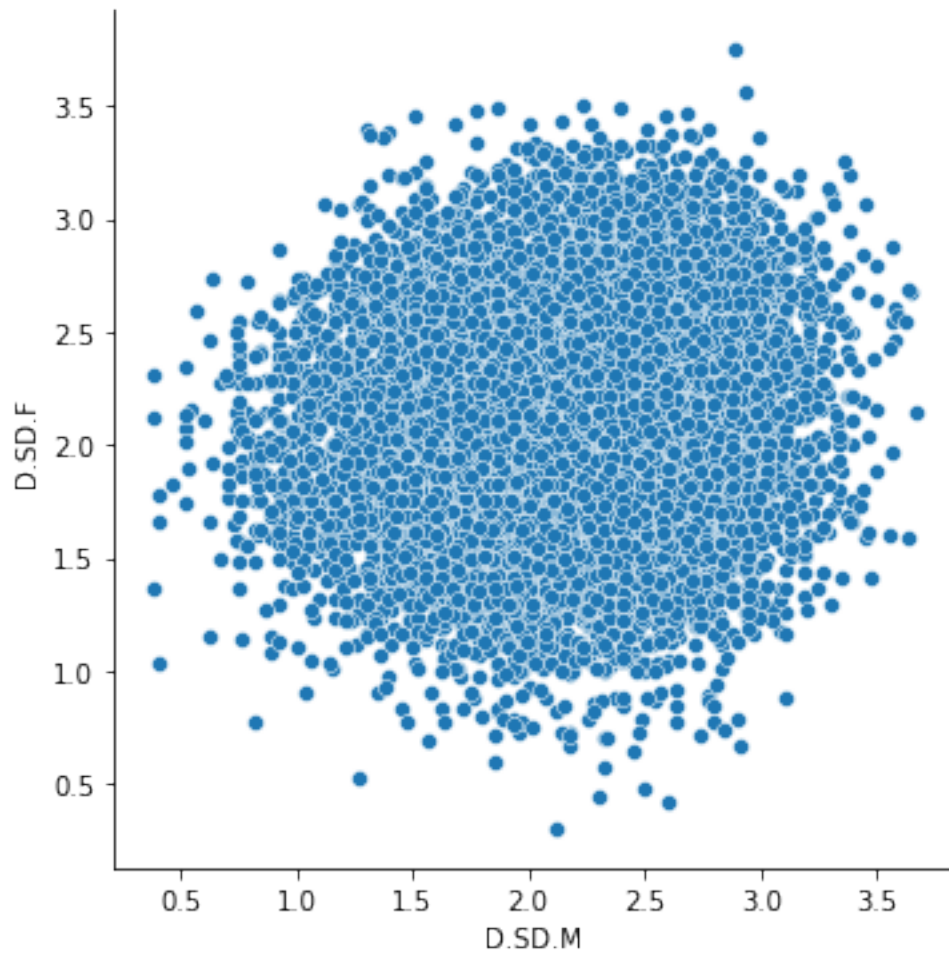
The first graph between the standard diviation for Valence shows that there are some words were men have a standard diviation of 0.0 while womens scores differ more from one another. I am curious as to what words yield an SD of zero, and look for that in the next cell. The other 2 graphs (dominance SD and Arousal SD) do not display any clear tendencies: some words yield more differences in women, some yield more differences in men.

```
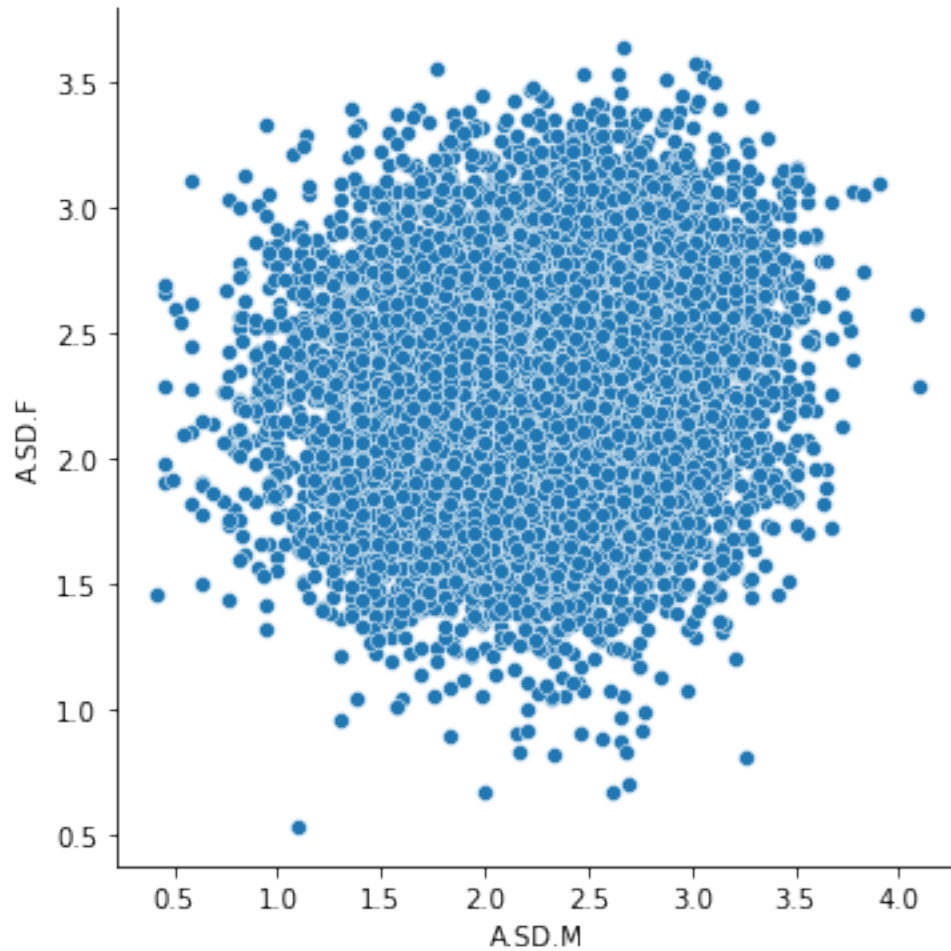[48]: engels.loc[(engels['V.SD.M'] == 0.0),['Word', 'V.Mean.Sum', 'D.Mean.Sum', 'A.
      ↪Mean.Sum', 'V.SD.M', 'D.SD.Sum', 'A.SD.Sum']]
```

```
[48]:              Word  V.Mean.Sum  D.Mean.Sum  A.Mean.Sum  V.SD.M  D.SD.Sum  \
      17          abode        5.28        5.05        2.90     0.0      2.44
      79       accursed        3.21        4.13        5.33     0.0      2.30
      155    admissible        5.16        6.21        2.90     0.0      1.90
      253          AIDS        1.33        3.55        5.00     0.0      2.77
      338     alternate        5.15        5.20        3.48     0.0      2.31
      ...           ...         ...         ...         ...     ...       ...
      13669        whim        6.16        5.85        4.05     0.0      2.70
```

```
13680         whisk         5.74         5.20         4.48         0.0         2.57
13701          wide         4.58         6.20         3.05         0.0         1.99
13759        wiring         5.05         5.10         3.75         0.0         2.12
13881          yoga         6.05         6.48         3.33         0.0         2.29

              A.SD.Sum
17               1.89
79               2.13
155              1.71
253              2.60
338              1.89
…                  …
13669            2.04
13680            1.66
13701            2.12
13759            2.31
13881            2.42

[124 rows x 7 columns]
```

```
[49]: engels.loc[(engels['V.SD.M'] == 0.0),['Word', 'V.Mean.Sum', 'D.Mean.Sum', 'A.
      ↪Mean.Sum', 'V.SD.Sum', 'D.SD.Sum', 'A.SD.Sum', 'V.Mean.M', 'A.Mean.M', 'D.
      ↪Mean.M']].mean()
```

```
[49]: V.Mean.Sum     4.889194
      D.Mean.Sum     5.247903
      A.Mean.Sum     3.862984
      V.SD.Sum       1.343629
      D.SD.Sum       2.184677
      A.SD.Sum       2.189839
      V.Mean.M       4.806452
      A.Mean.M       3.939919
      D.Mean.M       5.373226
      dtype: float64
```

There are 124 words that get exactly the same score from men for Valence. Futher, there seems
to be no clear pattern for these words: for other variables they have very different scores and I
cannot detect a common theme for these words. The standard diviation of Valence for these words
only is lower then the standard diviation of Valence for all words combined (1.34 versus 1.68). For
other measures there seems to be no clear difference or this subgroup and the overall population of
words.

3.0.4   2.4. Analyses on young and old

In this section I explore the correlations between different means and standard diviations. Then I
explore whether there are words that young and old have very different opinions on by creating a
new column: I substract the average Valence score for elderly from the average Valence score for
youth.

```
[50]: print(engels['V.Mean.Y'].corr(engels['V.Mean.O']))
      print(engels['A.Mean.Y'].corr(engels['A.Mean.O']))
      print(engels['D.Mean.Y'].corr(engels['D.Mean.O']))
      print(engels['V.SD.Y'].corr(engels['V.SD.O']))
      print(engels['A.SD.Y'].corr(engels['A.SD.O']))
      print(engels['D.SD.Y'].corr(engels['D.SD.O']))
```

```
0.8175854278091365
0.5000246202207895
0.590903901059437
0.10604617934022101
0.12183945406806707
0.09342211787333662
```

```
[51]: sns.relplot(x='D.SD.Y', y='D.SD.O', data=engels)
```

```
[51]: <seaborn.axisgrid.FacetGrid at 0x22dbfe26070>
```
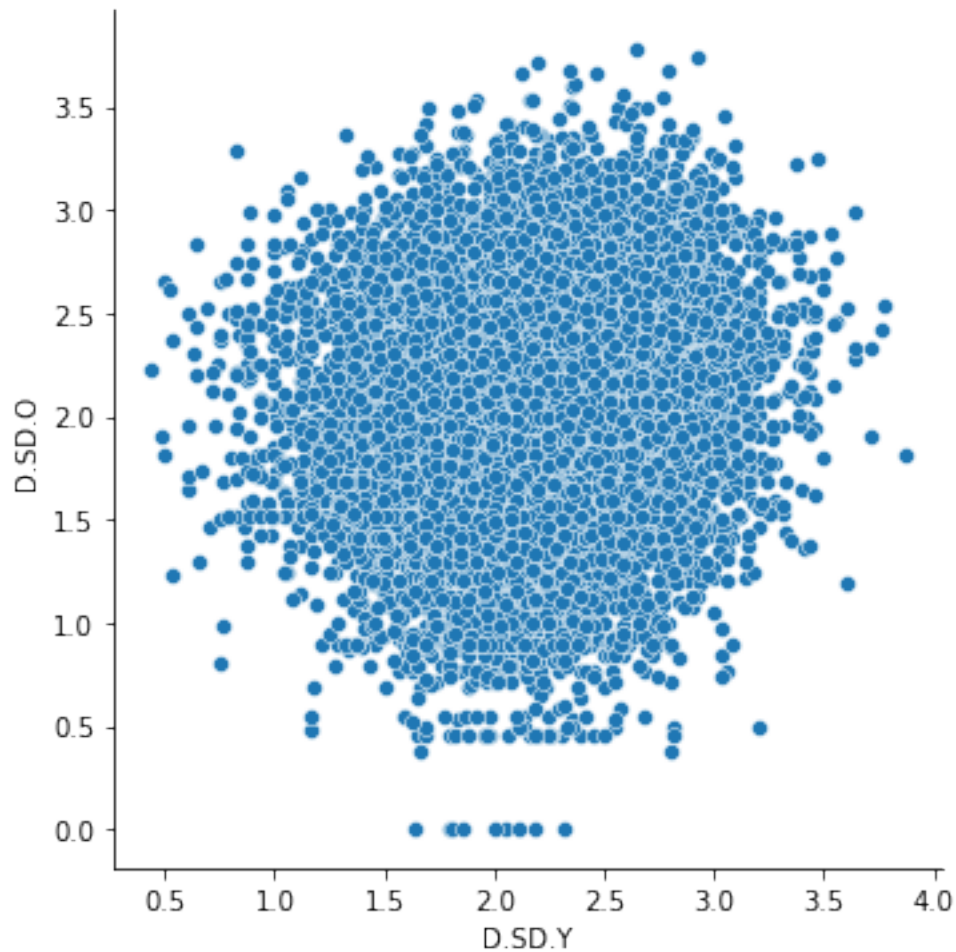
Young and old people give quite similar Valence-scores to words, as is indicated by the high core-lation (0.82). The standard diviation of Dominance is the one that is most different in these 2 groups. There is however no clear pattern, as is shown in the graph: sometimes young people have a higher standard diviation for a particular word and in other instances old people have a higher standard diviation.

The previous 2 cells compare the averages of all words rated by youth and old people. I wondered whether there are individual words that young and old people have very diffent opinions about. To answer this question I made a new column 'YO'. It substracts the Valence score given by old people from the Valence score given by young people. It thus shows the difference in points that young vs old people give the word. In the next cells I run some code to know more about this interesting differences.

```
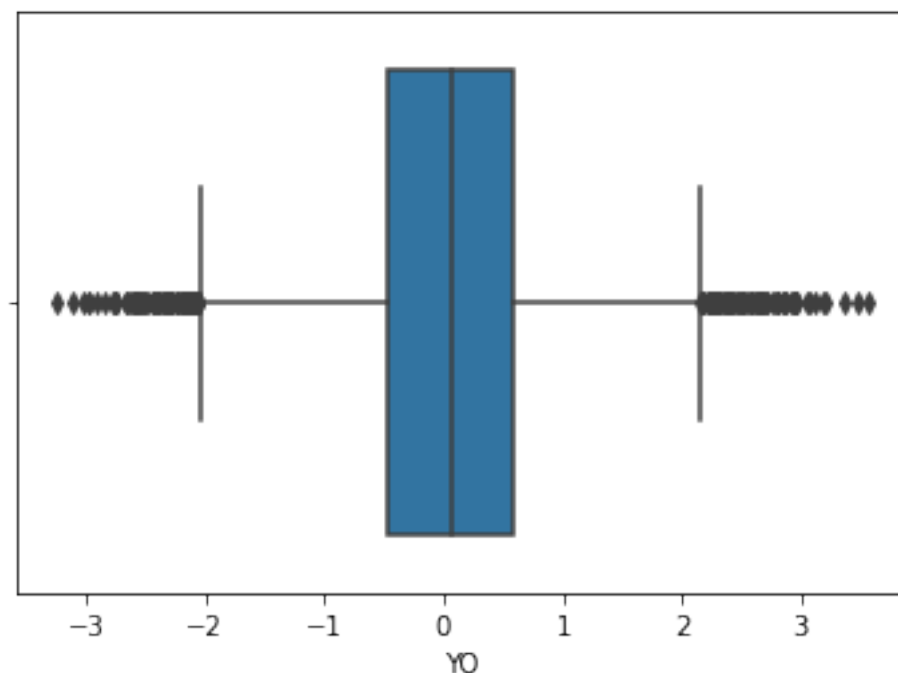[52]: engels['YO'] = engels['V.Mean.Y']- engels['V.Mean.O']
```

```
[53]: engels['YO'].mean()
```

```
[53]: 0.05379302910528197
```

```
[54]: sns.boxplot(x='YO', data=engels)
```

```
[54]: <AxesSubplot:xlabel='YO'>
```



```
[55]: len(engels.loc[(engels['V.SD.M'] == 0.0), 'Word'])
```

```
[55]: 124
```

```
[56]: engels.sort_values('YO', ascending = False)
```

```
[56]:              Word  V.Mean.Sum  V.SD.Sum  V.Rat.Sum  A.Mean.Sum  A.SD.Sum  \
      4995         fuck        5.23      3.25         22        7.14      1.98
      7627     mercenary        3.89      2.21         19        5.14      3.04
      4997      fucking        5.09      3.29         22        6.86      2.29
      1412       boxing        4.47      2.59         19        5.73      3.15
      5513          gym        5.84      2.52         19        5.00      3.02
      ...          ...         ...       ...        ...         ...       ...
      8431     openness        6.52      2.42         21        4.37      2.69
      10516     royalty        5.52      2.54         21        4.32      2.43
      9147     playtime        6.63      2.54         19        5.10      2.43
      13827     worship        5.57      2.68         21        3.78      2.61
      10800    scripture        5.47      2.67         19        2.89      2.05

             A.Rat.Sum  D.Mean.Sum  D.SD.Sum  D.Rat.Sum  ...  A.Mean.H  A.SD.H  \
      4995          21        5.47      2.21         17  ...      7.00    2.14
      7627          21        4.29      2.35         28  ...      6.62    2.77
      4997          21        4.94      2.69         16  ...      6.80    2.40
      1412          22        5.63      1.86         19  ...      7.62    1.51
      5513          22        5.96      2.15         28  ...      6.12    2.70
      ...          ...         ...       ...        ...  ...       ...     ...
      8431          19        5.86      1.90         21  ...      4.82    3.19
      10516         25        5.68      2.77         19  ...      3.89    2.37
      9147          21        6.96      1.55         23  ...      5.18    1.89
      13827         23        4.65      2.89         17  ...      4.25    2.96
      10800         19        5.15      3.01         20  ...      2.30    1.83

             A.Rat.H  D.Mean.L  D.SD.L  D.Rat.L  D.Mean.H  D.SD.H  D.Rat.H     YO
      4995        15      5.00    2.35        9      6.00    2.07        8   3.57
      7627         8      4.38    2.66       16      4.17    1.99       12   3.48
      4997        15      4.89    2.62        9      5.00    3.00        7   3.36
      1412         8      6.22    1.92        9      5.10    1.73       10   3.20
      5513         8      6.06    2.43       16      5.83    1.80       12   3.18
      ...        ...      ...     ...       ...      ...     ...       ...    ...
      8431        11      5.44    1.88        9      6.17    1.95       12  -2.97
      10516        9      6.00    3.00       11      5.25    2.55        8  -2.99
      9147        11      7.23    1.09       13      6.60    2.01       10  -3.03
      13827       12      3.89    2.15        9      5.50    3.51        8  -3.12
      10800       10      4.89    3.48        9      5.36    2.73       11  -3.25

      [13915 rows x 65 columns]
```

The previous cells show that young and old do not differ much on what Valence-score they give
a word as the average difference is only half a point. The boxplot also shows that half of the
words have a difference of half a point or less. There are 124 words that young and old have
exactly the same average Valence-score. However there are words on which they have remarkably
different opinions. Young people think much more positivly about words such as 'fuck', 'fucking'

and 'gym'. Older people have more positive evaluations about words such as 'scripture', 'worship' and 'openness'.

3.0.5 2.5. Analyses on people with different educational levels

In this section I check the corelations between the means and standard diviations of people with lower education versus higher education. Then I dive deeper into their opinions of words related to the schoolsystem, with the use of regular expressions. I wondered whether there would be a big difference in opinion on school-related words such as 'school' and 'exam'.

```
[57]: print(engels['V.Mean.L'].corr(engels['V.Mean.H']))
      print(engels['A.Mean.L'].corr(engels['A.Mean.H']))
      print(engels['D.Mean.L'].corr(engels['D.Mean.H']))
      print(engels['V.SD.L'].corr(engels['V.SD.H']))
      print(engels['A.SD.L'].corr(engels['A.SD.H']))
      print(engels['D.SD.L'].corr(engels['D.SD.H']))
```

```
0.8319782430043601
0.4666070233184241
0.6084974179156929
0.1655719021646588
0.09936004801972223
0.05970711060547128
```

As was the case in the other 2 comparisons (between genders and ages) the means of Valence are highly correlated. The standard diviations have again much lower corelations.

```
[58]: engels.loc[(engels.Word.str.contains('.*school.*')==True),['Word', 'V.Mean.L',␣
      ↪'V.Mean.H', 'A.Mean.L', 'A.Mean.H', 'D.Mean.L', 'D.Mean.H']]
```

```
[58]:              Word  V.Mean.L  V.Mean.H  A.Mean.L  A.Mean.H  D.Mean.L  \
      9397      preschool      6.10      6.00      4.45      2.33      3.58
      10738        school      4.79      6.50      4.83      4.47      5.33
      10739      schoolboy      5.80      5.22      2.82      3.00      5.00
      10740     schoolgirl      5.73      6.08      5.20      4.58      5.40
      10741    schoolhouse      6.00      6.00      3.00      3.44      3.85
      10742       schooling      6.00      6.40      4.43      4.71      5.53
      10743    schoolmaster      5.11      4.82      3.27      3.20      4.89
      10744   schoolteacher      5.10      5.18      3.31      5.14      5.92
      10745      schoolwork      4.69      4.75      3.73      4.75      6.41
      10746      schoolyard      5.00      5.82      5.12      5.55      3.89

             D.Mean.H
      9397        5.25
      10738       6.50
      10739       3.90
      10740       6.40
      10741       5.50
      10742       5.47
```

```
10743     4.57
10744     4.40
10745     4.67
10746     6.08
```

```
[59]: engels.loc[(engels.Word.str.contains('.*school.*')==True),['Word', 'V.Mean.L',
      →'V.Mean.H', 'A.Mean.L', 'A.Mean.H', 'D.Mean.L', 'D.Mean.H']].mean()
```

```
[59]: V.Mean.L    5.432
      V.Mean.H    5.677
      A.Mean.L    4.016
      A.Mean.H    4.117
      D.Mean.L    4.980
      D.Mean.H    5.274
      dtype: float64
```

```
[60]: engels.loc[(engels.Word.str.contains('.*educat.*')==True),['Word', 'V.Mean.L',
      →'V.Mean.H', 'A.Mean.L', 'A.Mean.H', 'D.Mean.L', 'D.Mean.H']]
```

[60]:

	Word	V.Mean.L	V.Mean.H	A.Mean.L	A.Mean.H	D.Mean.L	D.Mean.H
3947	educate	7.27	7.70	4.00	4.90	6.15	7.55
3948	education	6.54	6.62	4.60	4.67	6.18	7.45
3949	educational	6.44	6.73	5.09	3.90	5.33	6.57
3950	educator	6.46	6.83	3.43	3.62	6.33	5.90
13064	uneducated	3.67	2.45	4.55	3.20	4.83	6.43

```
[61]: engels.loc[(engels.Word.str.contains('.*exam.*')==True),['Word', 'V.Mean.L', 'V.
      →Mean.H', 'A.Mean.L', 'A.Mean.H', 'D.Mean.L', 'D.Mean.H']]
```

[61]:

	Word	V.Mean.L	V.Mean.H	A.Mean.L	A.Mean.H	D.Mean.L	D.Mean.H
4273	exam	4.69	3.75	4.33	6.75	4.65	3.33
4274	examination	4.83	5.30	4.46	4.57	4.92	5.20
4275	examine	5.33	5.89	3.27	4.78	5.58	6.67
4276	examiner	4.69	3.62	3.70	3.70	5.78	6.64
4277	example	4.58	5.33	4.00	3.31	6.43	6.92

I looked for differences in perception of school-related words between people of lower and higher education but I found only a few differences. 'School' is rated much more positivly by people with higher education. 'Schoolteacher' elecits more arousal in people with higher education. 'School-yard' is seen as a less dominant word by people who have lower education. 'Uneducated' is seen more negativly, triggers less arousal but shows more dominance according to people with higher education. 'Educational' is a word that triggers more arousal in people of lower education.

3.0.6   2.6. Conclusions

I started with an analysis of the data for the whole population. I learned that words such as 'vacation' have a positive meaning for most people, while 'racist' and 'pedophile' have the most negative meanings. 'Paradise' and 'win' have high dominance-scores and 'dementia' has a very low

dominance-score. The words that elecit most arousal are 'insanity', 'gun' and 'sex'. 'Grain' and 'calm' elecit the least amount of arousal on average.

Remarkable corelations were: 1. The average and the standard diviation of Arousal. For higher scores on the Arousal measure there seem to be higher standard diviations. 2. The averages for Dominance and Valence corelated positivly. Words that have more positive meaning are also rated as being more dominant.

Men and women yield relativly similar scores of their averages but the standard diviations per measure are very different. Surprisingly, there are 124 words for which men have 0.0 standard diviation on the Valence-measure. Women have varying standard diviations for those words. There seems to be no common theme in these words.

Young and old people have again similar scores for their average-scores but more different standard diviations. I zoomed in on those words that old and young people different most in the valence-measure. Overall, the ratings for most words are very similar. 'Fuck' and 'Fucking' are rated much more positivly by young people. 'Worship' and 'Scripture' are seen as much more positive words by old people.

The analyses on people with different educational levels showed again that the averages of the different measure were fairly similar, while the standard diviations differ. On the level of individual words there are some differences between these 2 groups. 'School' is rated much more positivly by people with higher education. 'Uneducated' is seen more negativly, triggers less arousal but shows more dominance for people with higher education. 'Educational' is a word that triggers more arousal in people of lower education.

4   3. Comparing the Dutch and the English words

First I want to say the scores cannot be compared directly because they were given other scales. The dutch scale ran from 1 to 7, while the english scale ran from 1 to 9 and other words were used. To make the datasets more comparable I first filter for the words that are in both datasets. I will then compare whether the words that rank the highest and the lowest on any measures are comparable.

4.0.1   3.1. Match the words

In the next cells I determine which words are in both datasets and then I create new dataframes: a dutch one filtered to obtain only the words present in both and an english one with the same words. Later I will be able to compare their averages. This step made it clear that several words in dutch were translated to 1 word in english. Therefor there are more words in the new filtered dutch dataframe, then there are in the new filtered english dataframe.

```
[62]:  Translationl = Nediedereen['Translation'].tolist()
       Wordseng = engels['Word'].tolist()

       print(Translationl, Wordseng)
```

['to stroke', 'eel', 'alms', 'attentive', 'pleasant', 'assault', 'offense', 'offensive', 'attractive', 'attack', 'to attack', 'offensive', 'acquisition', 'respect', 'considerably', 'monkey', 'nature', 'strawberry', 'earthquake',

'earth', 'ass', 'ace', 'absurd', 'abbot', 'accent', 'to deem', 'acne', 'act',
'active', 'acute', 'viper', 'nobility', 'eagle', 'breath', 'vein', 'address',
'advice', 'lawyer', 'to break off', 'envy', 'dependent', 'aversion', 'to
dislike', 'averse', 'farewell', 'to screen', 'horror', 'distance', 'repulsive',
'to repell', 'waste', 'to wait', 'waiting', 'to reject', 'agency', 'aggression',
'aggressive', 'aids', 'field', 'agreement', 'document', 'alarm', 'album',
'alcoholism', 'alert', 'alone', 'altar', 'craft', 'ambition', 'ambitious',
'office', 'other', 'sting', 'fear', 'anxious', 'anise', 'carnation', 'anchor',
'anchovy', 'anti', 'antique', 'antelope', 'answer', 'anus', 'apathy',
'apathetic', 'apple', 'applause', 'aquarium', 'labor', 'are', 'eagle',
'suspicion', 'ark', 'arm', 'poverty', 'poverty', 'poor', 'poor', 'arrest',
'arrogant', 'artistic', 'physician', 'axis', 'asylum', 'asocial', 'aspect',
'assertive', 'asthma', 'atlas', 'athlete', 'thoughtful', 'auditorium', 'aura',
'car', 'autonomy', 'autonomous', 'authoritarian', 'authority', 'evening',
'adventurous', 'to prey', 'vinegar', 'bay', 'job', 'beard', 'perch', 'boss',
'benefit', 'baby', 'bacon', 'bath', 'container', 'beacon', 'to bake', 'baker',
'ball', 'balance', 'to be fed up', 'bar', 'beam', 'balcony', 'balloon', 'pen',
'balsam', 'bamboo', 'banal', 'band', 'bandit', 'coward', 'banjo', 'bank',
'bankrupt', 'to eliminate', 'bar', 'barracks', 'barbarian', 'to bear',
'baroque', 'baron', 'stern', 'crack', 'to burst', 'bass', 'basketball', 'bark',
'bastard', 'to benefit', 'bazaar', 'bossy', 'bazooka', 'bed', 'calm',
'entreaty', 'timid', 'beggar', 'threat', 'proficient', 'deceptive', 'active',
'sad', 'sadness', 'deception', 'brook', 'image', 'beautiful', 'leg', 'bear',
'cesspool', 'beast', 'bite', 'desire', 'funeral', 'understanding', 'wallpaper',
'needy', 'proper', 'helpful', 'beige', 'impressionable', 'chisel', 'beak',
'cup', 'pelvis', 'concerned', 'narrow-minded', 'skilled', 'bell', 'attacked',
'wretched', 'important', 'tax', 'crazy', 'offended', 'insult', 'polite', 'well-
read', 'Belgian', 'to dial', 'to reward', 'beloved', 'meddlesome', 'stuffy',
'gang', 'curious', 'bears', 'mountain', 'birch', 'bank', 'famous', 'miserable',
'repentance', 'resigned', 'resignation', 'berry', 'civilized', 'ashamed',
'damaged', 'modest', 'to protect', 'protection', 'rusk', 'decisive',
'undecided', 'infected', 'smeared', 'stable', 'to fight', 'seemly', 'better',
'concrete', 'reliable', 'fed up', 'bracket', 'beech', 'to beech', 'executioner',
'scholarship', 'turn', 'command', 'to tremble', 'prejudiced', 'afraid',
'friendly with', 'liberated', 'mobile', 'admirable', 'admiration', 'broom',
'busy', 'possessor', 'concerned', 'concern', 'objection', 'to pray',
'confession', 'to offer', 'beer', 'beet', 'piglet', 'Bible', 'ax', 'very', 'to
bite', 'corrosive', 'fierce', 'buttock', 'billiards', 'fair', 'to bind',
'buttocks', 'bitter', 'forage cap', 'bizarre', 'blame', 'blister', 'bladder',
'leaf', 'page', 'to bark', 'blank', 'to bleat', 'blue', 'to blow', 'pale',
'happy', 'joy', 'gladness', 'token', 'to prove', 'to remain', 'permanent',
'glance', 'lightning', 'blind', 'to shine', 'blood', 'anemic', 'massacre', 'to
bleed', 'bloom', 'to bloom', 'flower', 'blossom', 'block', 'to cram', 'blonde',
'bare', 'blush', 'blouse', 'to blush', 'blubber', 'bluff', 'blunder', 'to
extinguish', 'broke', 'boa', 'lump', 'hump', 'curve', 'offer', 'soil', 'Buddha',
'crook', 'prow', 'buoy', 'to captivate', 'book', 'bouquet', 'lot', 'bogeyman',
'farmer', 'boorish', 'penalty', 'to pay', 'bosom', 'parotitis', 'to fluke',
'goat', 'bowl', 'to box', 'boxer', 'sphere', 'clever clogs', 'bomb', 'voucher',

'union', 'hunk', 'to bang', 'brush-off', 'fur', 'message', 'arc', 'tree',
'bean', 'drill', 'board', 'angry', 'malicious', 'anger', 'boat', 'plate',
'brothel', 'to drill', 'guarantee', 'drink', 'breast', 'brush', 'forest',
'bone', 'butter', 'to clash', 'broth', 'bolt', 'construction', 'to build',
'dilapidated', 'box', 'boycott', 'well-behaved', 'to roast', 'to vomit',
'stretcher', 'branch', 'fire', 'to burn', 'bravo', 'wide', 'fragile', 'to knit',
'brain', 'to break', 'to bring', 'breach', 'fracture', 'letter', 'breeze',
'mush', 'glasses', 'brilliant', 'British', 'brooch', 'to brood', 'brother',
'brotherhood', 'pants', 'brother', 'chunk', 'source', 'bronze', 'bread',
'brittle', 'bridge', 'bride', 'groom', 'bridal couple', 'dowry', 'wedding',
'brown', 'to tan', 'to roar', 'cheeky', 'gross', 'abruptly', 'brute', 'budget',
'buffalo', 'buffer', 'storm', 'pouch', 'to bend', 'flexible', 'belly',
'gastroenteritis', 'stomach ache', 'tube', 'booty', 'outside', 'to flunk', 'to
stoop', 'buldozer', 'bump', 'bunker', 'castle', 'citizen', 'civil', 'bus',
'gunpowder', 'bust', 'butler', 'neighbor', 'neighborhood', 'cocoa', 'gift',
'cafe', 'cake', 'canon', 'capacity', 'cape', 'carnival', 'cartoon', 'cash',
'cell', 'cello', 'cement', 'cent', 'cantankerous', 'chaos', 'charming', 'charm',
'chief', 'check', 'chic', 'chili', 'chip', 'chlorine', 'chocolate', 'chrome',
'cider', 'figure', 'circus', 'circle', 'lemon', 'claim', 'clan', 'clean',
'clown', 'club', 'cluster', 'coach', 'cobra', 'cocktail', 'cocoon', 'code',
'coke', 'coke', 'jacket', 'coma', 'comfort', 'to compensate', 'competent',
'competitive', 'condom', 'confetti', 'conflict', 'conformist', 'conservative',
'consistent', 'constructive', 'consul', 'contact', 'control', 'controllable',
'controlling', 'conventional', 'to correct', 'corrupt', 'creative', 'criminal',
'crisis', 'crude', 'cruise', 'cyclone', 'cynical', 'deed', 'decisive',
'horsefly', 'date', 'day', 'daydream', 'daylight', 'roof', 'valley', 'to
descend', 'dam', 'lady', 'to play checkers', 'vapor', 'thanks', 'grateful', 'to
thank', 'dance', 'to dance', 'dancer', 'dancefloor', 'brave', 'intestine',
'darts', 'tie', 'dew', 'deal', 'to deal', 'dealer', 'dough', 'part', 'defect',
'distinguished', 'solid', 'sword', 'deck', 'blanket', 'to cover', 'to share',
'delicate', 'pine', 'to think', 'depression', 'depressed', 'detail', 'virtuous',
'to be good', 'dent', 'to dent', 'door', 'slide', 'diamond', 'close', 'to
close', 'dictator', 'dictatorial', 'thief', 'theft', 'servant', 'to serve',
'deep', 'profundity', 'animal', 'dear', 'diesel', 'thigh', 'dike', 'thick',
'thing', 'diploma', 'direct', 'disco', 'discrete', 'thistle', 'daughter', 'to
kill', 'cloth', 'goal', 'aimless', 'goal', 'effective', 'target', 'to do',
'dull', 'dogma', 'dock', 'to dock', 'doctor', 'crazy', 'overjoyed', 'dolphin',
'love', 'dagger', 'dollar', 'to horse around', 'stupid', 'dominant',
'dominating', 'idiot', 'thunder', 'dark', 'down', 'death', 'to die',
'exhausted', 'dead', 'agony', 'terrified', 'skull', 'coffin', 'death agony',
'silent', 'death penalty', 'ill', 'deaf', 'cover-up', 'thaw', 'maze', 'baptism',
'breakthrough', 'thorn', 'thorough', 'to continue', 'persevering', 'box',
'shell', 'dope', 'to baptize', 'doping', 'arid', 'village', 'thirst', 'shower',
'to shower', 'to extinguish', 'down', 'dozen', 'wire', 'tolerable', 'turn', 'to
rotate', 'dragon', 'trot', 'to wear', 'urge', 'drink', 'lane', 'to threaten',
'dung', 'threshold', 'blow', 'to boom', 'irascible', 'quicksand', 'to float',
'to drink', 'sad', 'sadness', 'sad', 'to dry', 'to dream', 'drunkard', 'dry',
'dream', 'licorice', 'drugs', 'grape', 'pressure', 'to print', 'to drip',

'double', 'doubtful', 'musty', 'to interpret', 'pigeon', 'dive', 'to dive',
'diver', 'thumb', 'to cross thumbs', 'dune', 'dark', 'farthing', 'devil',
'thousand', 'to tolerate', 'thin', 'opinion', 'duo', 'dupe', 'to last',
'courage', 'to dare', 'expensive', 'durable', 'push', 'to push', 'wrong track',
'fool', 'to wander', 'coercion', 'straitjacket', 'penalty', 'transverse',
'floorcloth', 'to mop', 'dwarf', 'to force', 'compulsory', 'dynamic', 'ebb',
'echo', 'really', 'married couple', 'noble', 'oath', 'callus', 'duck', 'unit',
'simple', 'lonely', 'loneliness', 'honor', 'respect', 'respectful', 'honest',
'honesty', 'century', 'plain', 'efficient', 'hedgehog', 'ego', 'selfish', 'egg',
'egg-cell', 'own', 'headstrong', 'cocky', 'willful', 'oak', 'acorn', 'end',
'end', 'requirement', 'to require', 'magpie', 'moose', 'electricity', 'elf',
'emblem', 'emir', 'bucket', 'emotion', 'emotional', 'energy', 'energetic',
'inert', 'scary', 'angel', 'narrow-minded', 'any', 'only', 'enormous',
'enthusiasm', 'enthusiastic', 'epic', 'to honor', 'property', 'very',
'annoyance', 'oriel', 'seriousness', 'serious', 'ore', 'to experience', 'to
inherit', 'pea', 'essay', 'to eat', 'etching', 'to etch', 'pus', 'case', 'euro',
'shortcoming', 'equally', 'well-balanced', 'ex', 'exams', 'eccentric', 'excuse',
'execution', 'explosive', 'ecstatic', 'outrageous', 'extroverted', 'extreme',
'donkey', 'fame', 'fable', 'factory', 'bankrupt', 'fair', 'torch', 'to fail',
'family', 'fan', 'brass band', 'fascination', 'phase', 'fatal', 'decency',
'decent', 'fauna', 'armchair', 'pheasant', 'fairy', 'shrew', 'feast', 'holiday',
'to celebrate', 'banquet', 'faultless', 'fact', 'fierce', 'firm', 'filling
card', 'proud', 'bicycle', 'to cycle', 'figure', 'fine', 'fire', 'hefty',
'file', 'film', 'to film', 'filter', 'fit', 'fjord', 'flank', 'flap', 'shred',
'flat', 'faint', 'bottle', 'pale', 'robust', 'flirt', 'to flirt', 'flash', 'to
flash', 'flora', 'flute', 'to whistle', 'velvet', 'phobia', 'to breed', 'fund',
'fountain', 'tip', 'trout', 'stove', 'sturdy', 'fort', 'fortune', 'photo',
'wrong', 'faultless', 'beautiful', 'fragile', 'raspberry', 'fringe', 'whims',
'fraud', 'frail', 'frieze', 'French fries', 'fresh', 'frisbee', 'frivolous',
'frown', 'to frown', 'front', 'fruit', 'frustration', 'party', 'to party',
'fury', 'furious', 'pep', 'washed-out', 'whole', 'jay', 'to go', 'done',
'gauze', 'bile', 'gala', 'gala', 'gallant', 'gallows', 'gallop', 'game',
'gamma', 'rickety', 'corridor', 'gangster', 'goose', 'to yawn', 'shrimp', 'gas',
'gas mask', 'guest', 'hospitable', 'hole', 'soon', 'lawn', 'animated', 'cake',
'skeleton', 'birth', 'building', 'lack', 'deficient', 'broken', 'obliging',
'disciplined', 'patient', 'meekly', 'yellow', 'jaundice', 'annoyed', 'spirit',
'enthusiastic', 'yawn', 'to yawn', 'fascinated', 'frustrated', 'handicapped',
'secret', 'memory', 'obedient', 'to obey', 'tempered', 'horny', 'irritated',
'geyser', 'goat', 'cheer', 'crazy', 'anguished', 'hurt', 'resigned', 'money',
'jelly', 'beloved', 'faith', 'happiness', 'happy', 'happiness', 'ginger',
'common', 'average', 'gene', 'merciless', 'gracious', 'embarrassment', 'genius',
'sly', 'enjoyment', 'genre', 'skeleton', 'regular', 'inhibited', 'small',
'barley', 'gift', 'suitable', 'dispute', 'scourge', 'closed', 'sophisticated',
'buckle', 'tense', 'muscular', 'talented', 'ghetto', 'gully', 'odor', 'danger',
'dangerous', 'captive', 'prison', 'sharply', 'battle', 'facade', 'to give',
'sensitive', 'armed', 'rifle', 'violent', 'conscience', 'weightlifter',
'weighty', 'willing', 'just', 'authority', 'cozy', 'face', 'healthy', 'health',
'tumor', 'guide', 'to guide', 'vulture', 'to screech', 'stingy', 'to pour',

'poison', 'gift', 'hostage', 'scream', 'to scream', 'gin', 'gypsum', 'giraffe',
'to guess', 'yeast', 'to ferment', 'guitar', 'smooth', 'shine', 'to shine',
'glass', 'glacier', 'slot', 'to slide', 'smile', 'glimpse', 'to slip',
'overall', 'glow', 'brand new', 'to glow', 'to beam', 'to peep', 'goal', 'god',
'religion', 'religious', 'well', 'benign', 'merry', 'credulous', 'cheap', 'to
make up', 'guru', 'gamble', 'to gamble', 'wave', 'to wave', 'gondola', 'gong',
'to buzz', 'throw', 'to throw', 'filthy', 'gutter', 'belt', 'curtain', 'gold',
'gold coin', 'degree', 'count', 'gladly', 'Grail', 'grain', 'fish bone',
'canal', 'grave', 'gram', 'grenade', 'joke', 'to joke', 'funny', 'grass',
'free', 'gray', 'to dig', 'to graze', 'grip', 'bolt', 'border', 'ditch', 'flu',
'brill/chick', 'horror', 'grin', 'to grin', 'to grab', 'gray', 'whim', 'to
grill', 'grimace', 'gravel', 'groove', 'growth', 'to grow', 'green', 'group',
'greeting', 'to greet', 'coarse', 'growl', 'to growl', 'ground', 'thorough',
'large', 'gross', 'cave', 'grotesque', 'grit', 'horror', 'generous', 'fly',
'greedy', 'favor', 'inclement', 'gym', 'hedge', 'shark', 'hook', 'cock', 'hair',
'fire', 'hearth-fire', 'hare', 'almost', 'to hurry', 'hatred', 'hateful',
'lizard', 'hail', 'heel', 'to chop', 'hall', 'to fetch', 'half', 'halfhearted',
'neck', 'stop', 'ham', 'hammer', 'hamster', 'hand', 'trade', 'handy', 'hanging',
'to hang', 'listless', 'bite', 'to clap', 'hard', 'hard-handed', 'persistent',
'harsh', 'hardworking', 'harem', 'herring', 'rake', 'to rake', 'armor', 'harp',
'resin', 'heart', 'heartless', 'passion', 'passionate', 'hash', 'hateful', 'to
hate', 'port', 'oats', 'hawk', 'Hawaii', 'hazelnut', 'to have', 'greed',
'greedy', 'tight', 'today', 'very', 'lord', 'delicious', 'to rule', 'imperious',
'hoarse', 'shrub', 'hot', 'hotheaded', 'to lift', 'handle', 'violent', 'hedge',
'row', 'heathland', 'heathen', 'salvation', 'beneficial', 'nostalgia', 'fence',
'dislike', 'witch', 'hell', 'hero', 'clear', 'heroic', 'to heal', 'helmet', 'to
help', 'shirt', 'heaven', 'hen', 'fishing rod', 'stallion', 'autumn', 'brain',
'to restore', 'deer', 'duke', 'to name', 'heterosexual', 'hip', 'hill',
'violent', 'heel', 'high', 'to pant', 'to hoist', 'hiccup', 'nuisance', 'to
hinder', 'Hindu', 'hint', 'hit', 'Hitler', 'hat', 'hoof', 'angle', 'hoop',
'whore', 'cover', 'cough', 'to cough', 'court', 'hutch', 'hollow', 'to run',
'holster', 'bumblebee', 'homosexual', 'chunk', 'dog', 'hundred', 'hunger',
'honey', 'head', 'headscarf', 'headache', 'headrest', 'high', 'pride', 'proud',
'hay', 'hope', 'hopeful', 'horn', 'hop', 'hopeless', 'hopelessness', 'to hope',
'horde', 'to hear', 'hotel', 'to keep', 'wood', 'jerk', 'skin', 'to cry',
'home', 'help', 'needy', 'helpless', 'holly', 'mood', 'moody', 'humor', 'hup',
'to rent', 'to crouch', 'hut', 'rent', 'marriage', 'to marry', 'hyperactive',
'hypochondriac', 'icon', 'idealistic', 'idea', 'idol', 'something', 'vain',
'rarefied', 'ice', 'ice cream', 'refrigerator', 'diligence', 'diligent', 'iron',
'cast-iron', 'illegal', 'imam', 'impulsive', 'burglary', 'incest',
'incompetent', 'inconsistent', 'individualistic', 'inefficient', 'inert',
'infection', 'inferior', 'informal', 'infusion', 'restrained', 'modest',
'intestines', 'content', 'ink', 'to collect', 'intimate', 'accommodating',
'insect', 'effort', 'intellectual', 'intelligent', 'intelligence', 'intense',
'intensive', 'interesting', 'interest', 'intimate', 'introverted', 'disabled',
'influence', 'influential', 'irrational', 'irritation', 'irritant', 'item',
'ivory', 'year', 'hunting', 'to hunt', 'jealous', 'jealousy', 'pity', 'to
whine', 'dress', 'jargon', 'coat', 'jasmine', 'jazz', 'jeep', 'youth', 'itch',

'gout', 'to jog', 'joint', 'joker', 'young', 'boy', 'Jew', 'judo', 'teacher',
'to cheer', 'just', 'yoke', 'jungle', 'junk', 'gown', 'gravy', 'jewel', 'jaw',
'bald', 'cape', 'candle', 'map', 'to play cards', 'cheese', 'to reflect',
'racket', 'cable', 'stove', 'quay', 'framework', 'chaff', 'cover', 'kayak',
'cabin', 'khaki', 'cockroach', 'calf', 'lime', 'turkey', 'calm', 'calm', 'comb',
'camel', 'room', 'to comb', 'camp', 'champion', 'can', 'channel', 'cinnamon',
'cancer', 'canoe', 'cannon', 'chance', 'side', 'office', 'hood', 'chapel', 'to
hijack', 'captain', 'broken', 'to cut', 'hairdresser', 'cart', 'carafe',
'scanty', 'carcass', 'karma', 'carp', 'cartel', 'cardboard', 'job', 'cash',
'closet', 'castle', 'cat', 'hangover', 'cotton', 'chew', 'throat', 'sore
throat', 'time', 'cone', 'boulder', 'emperor', 'basement', 'chalice', 'waiter',
'kennel', 'to know', 'knowledge', 'guy', 'church', 'dungeon', 'cemetery',
'fair', 'core', 'nuclear bomb', 'kerosene', 'curry', 'cherry', 'Christmas',
'Christmas', 'chervil', 'boiler', 'chain', 'heretic', 'cue', 'kitchen', 'to
approve', 'neat', 'choice', 'beetle', 'kick', 'keel', 'germ', 'to germ',
'crack', 'molar', 'picky', 'to choose', 'to look', 'frog', 'chilly', 'kilo',
'chin', 'child', 'childish', 'hitch', 'kiosk', 'chicken', 'chest', 'Kitsch',
'kiwi', 'ready', 'complaint', 'to complain', 'clammy', 'sound', 'customer',
'blow', 'to hit', 'class', 'class', 'claw', 'to claw', 'clover', 'to dress',
'clothing', 'carpet/robe', 'soggy', 'clay', 'small', 'clip', 'to clasp',
'valve', 'clerk', 'to chat', 'wet', 'color', 'to color', 'colorless',
'colorful', 'toddler', 'to stick', 'clique', 'gland', 'cliff', 'click', 'to
click', 'climb', 'climate', 'to climb', 'doorhandle', 'to sound', 'cliff',
'stout', 'clock', 'lump', 'gap', 'monastery', 'testicle', 'asshole', 'knock',
'to beat', 'to bugger about', 'to split', 'farce', 'safe', 'clod', 'job', 'to do
odd jobs', 'confused', 'to beat up', 'clew', 'boy', 'to gnaw', 'bang', 'to pop',
'handsome', 'servant', 'to knead', 'nip', 'to pinch', 'knee', 'to kneel', 'to
pinch', 'nod', 'to nod', 'cut', 'wink', 'to cut', 'knob', 'to mess', 'knuckle',
'tuber', 'node', 'button', 'to tie', 'grumpy', 'club', 'hug', 'guy', 'bat',
'cozy', 'cow', 'cookie', 'cuckoo', 'cool', 'to cool', 'dome', 'courtyard',
'rate', 'to race', 'coach', 'case', 'coffee', 'bullet', 'cook', 'to cook',
'tube', 'flask', 'column', 'colossus', 'bowl', 'to come', 'comic', 'comma',
'compass', 'rabbit', 'king', 'ass', 'cage', 'boiling', 'cabbage', 'buy',
'choir', 'cord', 'fever', 'head', 'to buy', 'copper', 'copy', 'copy', 'leader',
'couple', 'to head', 'stubborn', 'Koran', 'firm', 'corn', 'basket', 'grain',
'crust', 'short', 'discount', 'costs', 'costly', 'to cost', 'sexton', 'costume',
'vomit', 'to vomit', 'cold', 'stocking', 'cousin/window frame', 'collar',
'crow', 'to crow', 'break-in', 'bead', 'stall', 'crane', 'crab', 'to scratch',
'force', 'weak', 'forceful', 'to crunch', 'cramp', 'spirited', 'wreath',
'newspaper', 'narrow', 'scratch', 'to scrape', 'crate', 'crater', 'lobster',
'creek', 'cry', 'cricket', 'bitch', 'to groan', 'lame', 'crib', 'to get', 'to
hoist', 'chalk', 'to shrink', 'circle', 'crystal', 'critical', 'pub', 'in heat',
'crooked', 'to curve', 'to crown', 'twist', 'crown', 'offspring', 'crop',
'hovel', 'herb', 'spices', 'jar', 'crumb', 'crown', 'to crawl', 'cross',
'crucifix', 'to cross', 'crusade', 'gunpowder', 'stool', 'curl', 'to curl',
'cough', 'to cough', 'herd', 'quiff', 'chick', 'pit', 'tub', 'chaste', 'to
clean', 'calf', 'to can', 'art', 'cork', 'to cork', 'kiss', 'to kiss', 'coast',
'cunt', 'cure', 'evil', 'anger', 'malevolent', 'disease', 'to quack',

'jellyfish', 'quarter', 'brush', 'breeding', 'to breed', 'to torment',
'torment', 'vulnerable', 'to hurt', 'alert', 'slaver', 'lost', 'mercury', 'low',
'avenue', 'boot', 'lab', 'label', 'laugh', 'to laugh', 'ladder', 'drawer', 'to
load', 'cowardly', 'coward', 'cowardly', 'lacquer', 'lackey', 'sheet', 'lax',
'lamb', 'lama', 'miserable', 'lamb', 'lamp', 'country', 'to land', 'lord',
'long', 'slow', 'lance', 'lantern', 'rag', 'larva', 'lasso', 'last',
'difficult', 'slat', 'to let', 'laurel', 'lukewarm', 'lava', 'noise', 'noisy',
'avalanche', 'leather', 'grief', 'empty', 'layman', 'loam', 'leather',
'teacher', 'lion', 'courage', 'legal', 'army', 'to lay', 'slate', 'to lead',
'leader', 'leak', 'to leak', 'nice', 'lily', 'ugly', 'blade', 'loin', 'to
borrow', 'limber', 'lens', 'spring', 'spoon', 'leprosy', 'to learn', 'lesson',
'lesbian', 'injury', 'letter', 'liar', 'nice', 'to lean', 'slogan', 'to live',
'alive', 'lively', 'lifeless', 'lifeless', 'canty', 'liver', 'to read',
'dragonfly', 'body', 'light', 'touchy', 'member', 'song', 'dear', 'love',
'unloving', 'to lie', 'winch', 'groin', 'lift', 'to lift', 'to lie', 'to
suffer', 'suffering', 'body', 'bodyguard', 'corpse', 'pale', 'glue', 'to glue',
'line', 'list', 'thrush', 'lick', 'liqueur', 'to lick', 'lilac', 'limit',
'lime', 'lime', 'link', 'left', 'linen', 'ribbon', 'lip', 'lipstick', 'ruse',
'cunning', 'liter', 'to moo', 'loupe', 'to lurk', 'praise', 'log', 'logical',
'lock', 'to lure', 'lol', 'rag', 'tatters', 'to pay', 'lung', 'wick', 'lead',
'pilot', 'to pilot', 'garlic', 'languid', 'wage', 'course', 'to walk', 'loose',
'to release', 'to unload', 'fate', 'to auction', 'shady', 'lounge', 'merely',
'loyal', 'air', 'to air', 'lazy', 'loud', 'to sound', 'noisy', 'hatch',
'leopard', 'louse', 'lute', 'to delouse', 'to succeed', 'dick', 'to talk
bullshit', 'lunch', 'to lunch', 'loop', 'lust', 'listless', 'to like', 'luxury',
'lynx', 'lyrical', 'stomach', 'virgin', 'stomach ache', 'ulcer', 'meal', 'moon',
'month', 'Monday', 'marshal', 'size', 'machine', 'macho', 'power', 'powerless',
'powerful', 'madam', 'maggot', 'magazine', 'lean', 'magic', 'mail', 'major',
'tame', 'to make', 'pal', 'mackerel', 'silly', 'to grind', 'tender', 'mama',
'man', 'basket', 'mango', 'way', 'manipulation', 'manipulative', 'manipulable',
'lame', 'male', 'mantle', 'folder', 'margin', 'marginal', 'marguerite',
'market', 'marble', 'marmot', 'march', 'torture', 'marten', 'mask', 'mass',
'massive', 'mast', 'mat', 'match', 'materialistic', 'moderate', 'mattress',
'matrix', 'sailor', 'mauve', 'meshes', 'luck', 'medal', 'compassion', 'pity',
'drug', 'merciless', 'compliant', 'flour', 'lake/more', 'superior', 'tit',
'master', 'starting line', 'seagull', 'girl/maid', 'girl', 'melancholia', 'to
report', 'milk', 'to milk', 'melody', 'melon', 'to mean', 'to mix', 'man',
'menu', 'whack', 'to whack', 'blackbird', 'marrow', 'brand', 'to brand', 'mare',
'knife', 'manure', 'metal', 'to measure', 'meter', 'metro', 'piece of
furniture', 'mob', 'microscope', 'means', 'average', 'middle', 'ant', 'measly',
'to avoid', 'mile', 'mine', 'miter', 'to aim', 'mild', 'environment', 'billion',
'million', 'spleen', 'mime', 'minus', 'contemptuous', 'contempt', 'inferior',
'inferiority', 'mini', 'tiny', 'lover', 'minute', 'affable', 'wrong', 'abuse',
'crime', 'criminal', 'crime', 'miscarriage', 'misleading', 'failure', 'failure',
'deformed', 'Miss', 'sick', 'to miss', 'fog', 'deformed', 'mobile', 'modal',
'mud', 'fashion', 'model', 'modem', 'modern', 'fashionable', 'tired', 'courage',
'despondent', 'mother', 'maternal', 'courageous', 'difficult', 'laborious',
'nut', 'swamp', 'puree', 'to should', 'possibility', 'to may', 'mug',

'sledgehammer', 'mocha', 'to sulk', 'mole', 'mill', 'moment', 'monarch',
'mouth', 'Mongol', 'monk', 'monster', 'cheerful', 'nice', 'murder', 'to murder',
'joke', 'grumpy', 'moralistic', 'moral', 'tomorrow', 'mutt', 'moss', 'mussel',
'moth', 'motel', 'motive', 'engine', 'malt', 'sleeve', 'stale', 'mosquito',
'mouth', 'mouse', 'mummy', 'coin', 'mellow', 'sparrow', 'must', 'cap', 'wall',
'muse', 'music', 'mysticism', 'seam', 'to sew', 'sewing machine', 'nude',
'needle', 'name', 'diligent', 'neighbor', 'night', 'disadvantage', 'thoughtful',
'nail', 'naive', 'negligent', 'counterfeit', 'wet', 'nature', 'narrow',
'painstaking', 'accurate', 'navel', 'subsequent', 'nectar', 'humble', 'nephew',
'dejected', 'Negro', 'to ignore', 'to incline', 'neck', 'to take', 'nervous',
'nervousness', 'nest', 'net', 'net', 'to fuck', 'neurotic', 'nose', 'mist',
'niece', 'kidney', 'not', 'insignificant', 'new', 'news', 'curious', 'to
sneeze', 'envy', 'industrious', 'nickel', 'nymph', 'narrow', 'niche', 'level',
'noble', 'to call', 'diligent', 'ridge', 'nun', 'nonchalant', 'nonconformist',
'nonsense', 'distress', 'north', 'nut/note', 'jail', 'norm', 'normal', 'surly',
'note', 'notion', 'sober', 'zero', 'number', 'utility', 'useful', 'waiter',
'objective', 'obscene', 'morning', 'ode', 'oyster', 'oeuvre', 'bank',
'sacrifice', 'eyes', 'ocher', 'armpit', 'oil', 'elephant', 'olive',
'grandmother', 'to embrace', 'embrace', 'unattentive', 'unpleasant',
'inappropriate', 'unattractive', 'independent', 'not adventurous', 'helpless',
'incompetent', 'rude', 'impudent', 'unreliable', 'fearless', 'inflexible',
'unconventional', 'ungrateful', 'to interrupt', 'subject', 'submissive', 'to
suppress', 'to undergo', 'subordinate', 'entertaining', 'enterprising', 'to
subject', 'subordinate', 'incompetent', 'unclear', 'spurious', 'unfair',
'unemotional', 'inexperienced', 'unethical', 'unbalanced', 'unusual',
'impatience', 'impatient', 'disobedient', 'accident', 'unhappy', 'merciless',
'worried', 'unsophisticated', 'accident', 'unhealthy', 'irreligious',
'unmanageable', 'clumsy', 'calamity', 'discourteous', 'unintelligent',
'uninteresting', 'weed', 'impotence', 'inaccurate', 'silly', 'inattentive',
'insincere', 'impractical', 'unproductive', 'injustice', 'unreasonable',
'unromantic', 'unrest', 'restless', 'innocence', 'innocent', 'turbulent',
'unsympathetic', 'dissatisfied', 'dissatisfaction', 'disillusioned',
'disillusionment', 'to avoid', 'discouraged', 'explosion', 'emotion',
'infidelity', 'dismissal', 'to escape', 'relaxed', 'to flee', 'to dodge',
'developed', 'awe', 'unsteady', 'unsafe', 'intolerant', 'indifferent',
'indifference', 'imperturbable', 'insufficient', 'immature', 'unpredictable',
'unfriendly', 'unshakable', 'storm', 'unwavering', 'uncertain', 'uncertainty',
'eye', 'harvest', 'to harvest', 'uncle', 'ear', 'place', 'war', 'earwig',
'east', 'grandfather', 'opal', 'open', 'relieved', 'startled', 'elated',
'elation', 'to give', 'cheerful', 'cheerfulness', 'relief', 'remarkable',
'superficial', 'opportunist', 'sincere', 'revolt', 'revolt', 'rebellious',
'option', 'optimistic', 'striking', 'irascible', 'stimulant', 'order',
'orderly', 'order', 'common', 'organ', 'orgasm', 'organ', 'orgy', 'original',
'orca', 'hurricane', 'orchestra', 'ox', 'otter', 'old', 'old-fashioned', 'oven',
'past/over', 'agreement', 'surrender', 'hypersensitive', 'predominant',
'transgression', 'convinced', 'pole', 'pair', 'horse', 'violet', 'lease', 'to
lease', 'pact', 'path', 'baffled', 'suit', 'to catch', 'directly', 'palace',
'palette', 'eel', 'palm', 'palm', 'pamphlet', 'saucepan', 'pawn', 'panda',

'panel', 'panic', 'panic', 'breakdown', 'panther', 'armor', 'porridge', 'papa', 'paper', 'parade', 'pearl', 'to pair', 'perfume', 'park', 'part', 'step', 'to suit', 'passion', 'passive', 'pasta', 'pastel', 'pastor', 'potato/fries', 'patent', 'father', 'pattern', 'pope', 'peacock', 'pause', 'bad luck', 'pedal', 'paddle', 'pedophile', 'pear', 'tendon', 'level', 'to gauge', 'to ponder', 'pitch', 'brine', 'fur', 'pen', 'shuttle', 'penis', 'paunch', 'paintbrush', 'pension', 'pepper', 'perfect', 'perfectionist', 'bed', 'platform', 'press', 'to squeeze', 'person', 'perverse', 'perversion', 'peach', 'pessimistic', 'plague', 'to bully', 'cap', 'godfather', 'stub', 'toddler', 'sinewy', 'piano', 'peak', 'willy', 'brainy', 'to squeak', 'pier', 'frock', 'arrow', 'pillar', 'pain', 'painful', 'painless', 'pipe', 'cock', 'piquant', 'pill', 'pillar', 'pilot', 'lager beer', 'pin', 'peanut', 'pink', 'pint', 'pawn', 'pirate', 'piss', 'millepede', 'to piss', 'pistol', 'pit', 'snappy', 'pizza', 'plague', 'plate', 'place', 'ceiling', 'to tease', 'slice', 'to paste', 'plan', 'planet', 'shelf', 'to plan', 'plant', 'to plant', 'puddle', 'to pee', 'plastic', 'flat', 'solemn', 'loo', 'to commit', 'square', 'plaster', 'lawsuit', 'to plead', 'place', 'fun', 'duty', 'dutifull', 'team', 'to plow', 'cad', 'flop', 'to plop', 'clumsy', 'splash', 'to splash', 'fold', 'to fold', 'plot', 'sudden', 'plush', 'plume', 'to pluck', 'lint', 'tuft', 'to pick', 'togs', 'plus', 'boastful', 'poodle', 'powder', 'pouf', 'pool', 'cougar', 'moolah', 'cat', 'polish', 'to polish', 'to attempt', 'poker', 'smallpox', 'polder', 'police', 'polo', 'wrist', 'to sound out', 'pump', 'to pump', 'pound', 'pimp', 'pole', 'gate', 'while', 'leg', 'doll', 'popular', 'poke', 'porn', 'to jab', 'port', 'pose', 'positive', 'post', 'to post', 'poster', 'pot', 'potent', 'potential', 'burly', 'poor', 'splendor', 'talking', 'splendor', 'wonderful', 'prairie', 'practical', 'proud', 'to talk', 'sermon', 'leek', 'to preach', 'print', 'to imprint', 'fun', 'pretentious', 'nice', 'prudish', 'prime', 'priest', 'price', 'prick', 'irritable', 'irritant', 'to prick', 'early', 'prince', 'pro', 'problem', 'productive', 'test', 'to taste', 'prof', 'progressive', 'prompt', 'to show off', 'lively', 'prey', 'cheers', 'wad', 'tidy', 'to shove', 'protest', 'wig', 'plum', 'psalm', 'psyche', 'pub', 'adolescent', 'debris', 'ruins', 'pimple', 'pimple', 'pulp', 'punch', 'punk', 'point', 'puppy', 'purple', 'well', 'pure', 'puzzle', 'python', 'council', 'riddle', 'raven', 'telling', 'window', 'turnip', 'strange', 'rabbi', 'rabbi', 'race', 'to race', 'wheel', 'radar', 'to guess', 'radical', 'radish', 'radio', 'craze', 'rail', 'to hit', 'rocket', 'ram', 'rattle', 'to ram', 'disaster', 'ranch', 'edge', 'rank', 'rank', 'ration', 'quick', 'to pick up', 'report', 'race', 'grater', 'to grate', 'screen', 'rat', 'rattle', 'rattlesnake', 'rational', 'raw', 'ravine', 'rayon', 'to rage', 'furious', 'rage', 'realistic', 'rebel', 'rebellious', 'recession', 'right', 'upright', 'right', 'righteous', 'just', 'irretrievable', 'to save', 'rescuer', 'rescue', 'speech', 'reasonable', 'reason', 'roe', 'series', 'strip', 'ass', 'rule', 'rain', 'rainbow', 'heron', 'to reach', 'clean', 'travel', 'to travel', 'rack', 'to stretch', 'riot', 'rail', 'brake', 'to brake', 'run', 'to run', 'interest', 'reptile', 'resolute', 'respect', 'rest', 'he-dog', 'smell', 'rheumatism', 'giant', 'great', 'revolver', 'rib', 'ledge', 'to aim at', 'knight', 'fork', 'belt', 'reed', 'rigid', 'row', 'to ride', 'rich', 'wealth', 'rhyme', 'to rhyme', 'ripe', 'to mature', 'rice', 'to rise', 'to shiver', 'jungle', 'wrinkle', 'ring', 'sewer', 'risky', 'ride', 'rite', 'rhythm', 'zipper', 'to

groove', 'river', 'ruby', 'robot', 'robust', 'rock', 'gossip', 'ruble', 'rod',
'to row', 'reckless', 'fame', 'call', 'to call', 'rudder', 'to stir', 'fuddle',
'rust', 'to rust', 'soot', 'ruffle', 'ray', 'rye', 'skirt', 'to smoke', 'role',
'to roll', 'wheelchair', 'novel', 'romanticism', 'romantic', 'clutter', 'trunk',
'round', 'red', 'robber', 'predator', 'murder with robbery', 'to grub', 'smoke',
'plume', 'cream', 'ice cream', 'rose', 'grid', 'reddish', 'rot', 'rock', 'to
rot', 'bastard', 'rubbish', 'route', 'mourning', 'to rob', 'robber', 'pink',
'raisin', 'rubber', 'section', 'back', 'backache', 'rough', 'to smell',
'exchange', 'to exchange', 'wide', 'broad-minded', 'to clean up', 'noise', 'to
murmur', 'diamond', 'jerk', 'to jerk', 'rum', 'noise', 'noisy', 'ox',
'caterpillar', 'Russia', 'rest', 'to rest', 'rest home', 'quiet', 'rough',
'quarrel', 'to quarrel', 'dull', 'Sabbath', 'saber', 'sadist', 'safe',
'sapphire', 'saga', 'balance', 'salon', 'salsa', 'salvo', 'coherent', 'sandal',
'juice', 'sarcastic', 'Satan', 'satin', 'satiric', 'sauna', 'sauce', 'sax',
'range', 'scalp', 'scene', 'scepter', 'skeptical', 'chess', 'scale', 'pubic
hair', 'shame', 'shameless', 'sheep', 'scissors', 'scarce', 'skate', 'to skate',
'shaft', 'damage', 'to damage', 'shadow', 'link', 'to play chess/to abduct', 'to
scale', 'poor', 'to be ashamed', 'scornful', 'scandal', 'shame', 'shelf',
'hinge', 'treasure', 'wealthy', 'to estimate', 'sweet', 'to plane', 'scaffold',
'sheath/vagina', 'skull', 'crooked', 'squint', 'fart', 'to separate',
'separation', 'shrill', 'to scold', 'to differ', 'shell', 'diagram', 'dusk', 'to
donate', 'scoop', 'to create', 'to shave', 'shard', 'screen', 'to fence',
'sharp', 'acute', 'banter', 'sketch', 'to sketch', 'tear', 'to rip', 'shoot',
'to shoot', 'disk', 'appearance', 'to shine', 'shit', 'to arrange', 'peel',
'shield', 'painter', 'to peel', 'shadow', 'mold', 'ship', 'shipwreck', 'shoe',
'scoundrel', 'shock', 'to shock', 'swing', 'school', 'clean', 'beauty', 'lap',
'shovel', 'to kick', 'hoarse', 'bark', 'to suspend', 'apron', 'shot', 'dish',
'shoulder', 'chimney', 'poor', 'scratch', 'to scratch', 'scratch', 'to scrape',
'to cancel', 'wrote', 'shout', 'to shout', 'to cry', 'lean', 'writing',
'shrine', 'to write', 'writer', 'terror', 'to be scared', 'stark', 'screw', 'to
screw', 'guzzler', 'diffidence', 'coy', 'to shake', 'slide', 'to hide',
'shelter', 'foam', 'oblique', 'boat', 'to push', 'debt', 'guilt', 'guilty', 'to
sand', 'scabies', 'villain', 'barn', 'shy', 'scooter', 'score', 'script',
'scrotum', 'signal', 'to signal', 'season', 'sex', 'to have sex', 'sect',
'sentimental', 'serene', 'sergeant', 'series', 'serpent', 'conservatory',
'session', 'set', 'sexy', 'atmosphere', 'sphinx', 'shampoo', 'sheriff',
'sherry', 'shirt', 'shit', 'shock', 'shop', 'shorts', 'shot', 'show',
'ornament', 'graceful', 'cigar', 'cigarette', 'sickle', 'silo', 'simple',
'single', 'saint', 'glum', 'syrup', 'scarf', 'shallot', 'sheikh', 'to carry',
'skeleton', 'ski', 'lettuce', 'slave', 'to strike', 'sleep', 'dormitory', 'to
slaughter', 'slaughter', 'stroke', 'to succeed', 'butcher', 'battlefield',
'snail', 'snake', 'slim', 'weak', 'to sleep', 'bad', 'peevish', 'sled', 'to
drag', 'lingering', 'slut', 'routine', 'to drag', 'key', 'silt', 'trail', 'mud',
'mucus', 'to lay it on thick', 'to wear', 'to swallow', 'smart', 'pendulum',
'briefs', 'to slip', 'wretch', 'sloop', 'slipper', 'to shuffle', 'slogan',
'gulp', 'slow', 'ditch', 'dead end', 'to demolish', 'sloppy', 'lock', 'veil',
'lank', 'to creep', 'lock', 'to close', 'gawk', 'trunk', 'sly', 'defamation',
'taste', 'smack', 'to taste', 'to smack', 'narrow', 'emerald', 'smart', 'to

forge', 'pig', 'to beg', 'to melt', 'to smear', 'dirty', 'stain', 'smith', 'to fling', 'mug', 'pretext', 'tuxedo', 'smuggling', 'to smother', 'string', 'snack', 'to get', 'beak', 'cut', 'cut', 'snow', 'to snow', 'quick', 'to rush', 'trashy', 'to cut', 'sob', 'to sob', 'cut', 'snob', 'snobbish', 'pike', 'candy', 'cord', 'to string', 'snout', 'mustache', 'snot', 'brat', 'brainy', 'snout', 'to blow', 'to sniff', 'to snore', 'sober', 'social', 'soup', 'flexible', 'sofa', 'soft', 'soya', 'sock', 'base', 'soldier', 'solid', 'to bandy about', 'solo', 'sum', 'gloomy', 'gloom', 'probe', 'kind', 'suds', 'to sop', 'spoke', 'savings', 'sparing', 'spade', 'to stretch', 'exciting', 'fir', 'to save', 'spatula', 'to splash', 'woodpecker', 'special', 'speech', 'speed', 'toys', 'teat', 'spear', 'bacon', 'game', 'pin', 'to pin', 'to play', 'to spell', 'sperm', 'sparrow-hawk', 'to trace', 'mirror', 'muscles', 'nail', 'food', 'regret', 'spindle', 'spider', 'spinach', 'spy', 'spiral', 'spirit', 'spit', 'peak', 'to dig', 'split', 'splinter', 'to split', 'rush', 'to rinse', 'to haunt', 'sponge', 'spontaneous', 'ghost', 'haunted house', 'track', 'traceless', 'sport', 'to exercise', 'ridicule', 'speech', 'talkative', 'starling', 'spread', 'to spread', 'to speak', 'maxim', 'to jump', 'grasshopper', 'sprint', 'to sprint', 'fleck', 'jump', 'fairytale', 'sprout', 'to spit', 'spray', 'to squirt', 'stuff', 'spurt', 'saliva', 'to spit', 'squash', 'bar', 'stake', 'steel', 'to stand', 'tail', 'state', 'stable', 'city', 'staff', 'internship', 'to strike', 'wretch', 'stable', 'tribe', 'stamp', 'to pound', 'position', 'statue', 'steadfast', 'rod', 'odor', 'step', 'pile', 'to step', 'rigid', 'to stare', 'start', 'to start', 'station', 'status', 'always', 'alley', 'stitch', 'stalk', 'stone', 'scaffold', 'steep', 'cutting', 'to stab', 'set', 'to steal', 'to set', 'states', 'voice', 'to vote', 'stamp', 'stalk', 'steppe', 'to ride a scooter', 'star', 'stereo', 'death bed', 'strong', 'to strengthen', 'to die', 'dying', 'support', 'to support', 'firm', 'to found', 'sneaky', 'bull', 'pin', 'stiff', 'to rise', 'style', 'to choke', 'still', 'stationary', 'skunk', 'to stink', 'dot', 'punctual', 'to romp', 'chair', 'doorstep', 'sturdy', 'procession', 'dust', 'stick', 'to heat', 'to clot', 'glass bell', 'stupid', 'blunt', 'steam', 'thrust', 'stop', 'stubble', 'to stop', 'to disturb', 'storm', 'to storm', 'dump', 'downpour', 'to deposit', 'to bump', 'naughty', 'bold', 'radius', 'street', 'punishment', 'to punish', 'tight', 'to radiate', 'radiant', 'radiation', 'stiff', 'pattern', 'beach', 'to strand', 'region', 'stripe', 'to stretch', 'to stroke', 'caress', 'severe', 'stress', 'to aim', 'weal', 'streaks', 'struggle', 'to fight', 'ironing', 'to iron', 'ironing board', 'bow', 'to snare', 'strict', 'strip', 'to strip', 'straw', 'rough', 'strophe', 'to flow', 'stump', 'shit', 'to straw', 'strip', 'flow', 'syrup', 'noose', 'to poach', 'throat', 'structure', 'bush', 'sturdy', 'student', 'rigid', 'tail bone', 'to stop', 'penny', 'piece', 'wretch', 'stunt', 'to send/steer', 'steering wheel', 'subtle', 'success', 'dull', 'sugar', 'suite', 'to whizz', 'sucker', 'awkward', 'sultan', 'super', 'superior', 'to surf', 'to appease', 'swing', 'swinging', 'sympathetic', 'system', 'tough', 'task', 'language', 'cake', 'tobacco', 'table', 'taboo', 'tact', 'tactless', 'tactful', 'table', 'waist', 'branch', 'number', 'talent', 'talented', 'talc', 'tame', 'tooth', 'dentist', 'tandem', 'toothache', 'pliers', 'tango', 'tank', 'to tank', 'aunt', 'tap', 'carpet', 'to tap', 'tarot', 'wheat', 'bag', 'touch', 'to grope', 'taxi', 'team', 'Dachshund', 'tender', 'bitch', 'tick', 'toe', 'tar', 'tile', 'against',

'oppositional', 'to stop', 'to contradict', 'bowl', 'complexion', 'sign',
'cartoon', 'text', 'word processor', 'count', 'disappointed', 'disappointment',
'television', 'scion', 'to count', 'to tame', 'temple', 'sanguineous', 'tenor',
'slender', 'tennis', 'tenor', 'tent', 'exhibition', 'nipple', 'tequila', 'term',
'termite', 'term', 'terrace', 'field', 'withdrawn', 'reticent', 'test', 'to
test', 'quaff', 'rein', 'satisfied', 'satisfaction', 'textile', 'theatrical',
'tea', 'theme', 'home', 'tic', 'to thrive', 'tit', 'tide', 'time', 'tiger',
'thyme', 'tap', 'to tap', 'to lift', 'tilt', 'timbre', 'timid', 'tin', 'tint',
'tingle', 'tip', 'tyrant', 'title', 'to worry', 'trip', 'indulgent', 'to admit',
'future', 'to approach', 'tour', 'to tour', 'appliance', 'key', 'to test',
'gown', 'toilet', 'toll', 'tolerant', 'interpreter', 'to interpret', 'to spin',
'tomato', 'tomb', 'ton', 'to show', 'tongue', 'tonic', 'tuna', 'counter',
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train', 'bar', 'tram', 'trance', 'style', 'stairs', 'trapezium', 'to kick',
'trauma', 'funnel', 'pace', 'step', 'to encounter/hit', 'train', 'pull', 'to
draw', 'trend', 'to mourn', 'sad', 'sorrow', 'sad', 'sadness', 'sad', 'trio',
'triumph', 'triumphant', 'journey', 'to trip', 'turbid', 'trump', 'troop',
'trophy', 'trough', 'troll', 'drum', 'trumpet', 'to throne', 'throne',
'consolation', 'to comfort', 'tropics', 'bunch', 'pride', 'faith', 'to marry',
'trick', 'truck', 'truffle', 'jersey', 'bitch', 'tsar', 'tube', 'discipline',
'rig', 'garden', 'keen', 'tulip', 'tumor', 'tunnel', 'turbo', 'to peer', 'peat',
'to practise gymnastics', 'to tally', 'doubt', 'doubtful', 'twig', 'twist', 'to
dispute', 'type', 'to type', 'onion', 'owl', 'exuberant', 'provocative',
'challenge', 'to express', 'to go out', 'extinct', 'exhausted', 'rested',
'scum', 'excrement', 'union', 'unique', 'urine', 'hour', 'clock', 'vague',
'pale', 'banner', 'proficient', 'speed', 'vase', 'dishes', 'fur', 'father',
'vagina', 'section', 'holidays', 'skilled', 'fall', 'falcon', 'to fall',
'false', 'vampire', 'to catch', 'to sail', 'pig', 'fixed', 'determined',
'determined', 'to fast', 'to hold', 'tenacious', 'to cling', 'barrel',
'susceptible', 'to catch', 'to fight', 'fighter', 'pugnacious', 'cattle',
'wipe', 'many', 'demanding', 'versatile', 'feather', 'to sweep', 'safe',
'sheet', 'field', 'to pronounce', 'venom', 'fennel', 'window', 'fellow', 'far',
'convertible', 'variable', 'responsible', 'surprised', 'connection',
'astonishment', 'grim', 'bewildered', 'suspect', 'to defend', 'defender',
'tolerant', 'grief', 'sad', 'to disappear', 'paint', 'refined', 'transient',
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'traffic', 'wrong', 'rape', 'spendthrift', 'desire', 'to leave', 'shy',
'embarrassment', 'withered', 'in love', 'infatuation', 'loss', 'lost',
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'degradation', 'to destroy', 'to destroy', 'varnish', 'ingenuity', 'betrayal',
'surprise', 'fresh', 'version', 'addicted', 'defeated', 'slackened', 'worn',
'suffocation', 'absent', 'delayed', 'annoying', 'boredom', 'to paint',
'conceited', 'related', 'confused', 'to reject', 'furiously', 'to destroy',
'destruction', 'surprised', 'vest', 'fat', 'feud', 'lace', 'veto', 'foal',
'fiber', 'to celebrate', 'square', 'dirty', 'enemy', 'hostile', 'fig', 'file',
'to file', 'pond', 'viking', 'villa', 'fin', 'to find', 'resourceful', 'finger',
'finch', 'sharp', 'violin', 'virus', 'fish', 'to fish', 'vital', 'visor',

'gust', 'flan', 'flag', 'plane', 'flame', 'flax', 'braid', 'meat', 'brat',
'stain', 'wing', 'whiff', 'fly', 'to fly', 'plane', 'membrane', 'diligence',
'diligent', 'butterfly', 'flea', 'flood', 'tidal wave', 'to flow', 'curse', 'to
curse', 'floor', 'fleet', 'raft', 'flight', 'to flee', 'quickly', 'moisture',
'rag', 'to feed', 'food', 'joint', 'to feel', 'feed', 'vehicle', 'foot',
'football', 'bird', 'full', 'satisfied', 'to follow', 'docile', 'to persevere',
'persevering', 'to persevere', 'persevering', 'stayer', 'people', 'volt',
'adult', 'spark', 'judgment', 'guardian', 'advantage', 'preference',
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'careful', 'fork', 'form', 'to form', 'frost', 'fox', 'fold', 'to fold',
'question', 'freight', 'truck', 'to ask', 'peace', 'peaceful', 'strange',
'fear', 'to stuff oneself', 'joy', 'to fear', 'friend', 'friendly',
'friendship', 'free', 'to make love', 'liberal', 'freedom', 'bold', 'early',
'merry', 'cheerfulness', 'pious', 'woman', 'fruit', 'fertile', 'dirty',
'garbage', 'trash can', 'fist', 'vulgar', 'volcano', 'to fill', 'to fire',
'fervently', 'fire', 'firework', 'to blow', 'Walloon', 'delusion', 'frenzy',
True, 'value', 'worthless', 'truth', 'haze', 'wait', 'to wait', 'waffle', 'to
risk', 'wagon', 'ice hole', 'to watch', 'awake', 'wall', 'disgust', 'smoke',
'waltz', 'to waltz', 'wall', 'misdeed', 'walking', 'cheek', 'despair',
'desperate', 'unstable', 'suspicious', 'weapon', 'confused', 'goods', 'hot',
'warm-hearted', 'heat', 'was', 'to wash', 'water', 'web', 'to bet', 'weak',
'wealth', 'melancholy', 'wheather', 'defenseless', 'orphan', 'road', 'to push',
'to walk away', 'to run away', 'to flee', 'meadow', 'to refuse', 'to arouse',
'fluent', 'benefaction', 'courteous', 'well-bred', 'cub', 'prosperity', 'to
turn', 'to weep', 'hint', 'to get used to', 'desire', 'to wish', 'world', 'to
ward', 'yard', 'work', 'to work', 'unemployed', 'unemployment', 'to throw',
'vertebra', 'to recruit', 'wasp', 'west', 'law', 'to know', 'to weave',
'weasel', 'being', 'weight', 'cradle', 'to rock', 'wick', 'wheel', 'seaweed',
'wedge', 'wide', 'to devote', 'woman', 'district', 'to make way', 'wine',
'wise', 'to blame', 'to point', 'will', 'game', 'willow', 'to like',
'willpower', 'eyelash', 'wind', 'shop', 'winner', 'to win', 'profit', 'winter',
'to seesaw', 'switch', 'to clear', 'white', 'vodka', 'rage', 'furious', 'to
toss', 'wild', 'wok', 'wool', 'wolf', 'cloud', 'wound', 'miracle', 'to live',
'word', 'to become', 'worm', 'throw', 'sausage', 'root', 'forest', 'revenge',
'vindictive', 'wreck', 'sour', 'wart', 'cruel', 'instep', 'to avenge',
'resentment', 'to rub', 'to wring', 'remorse', 'resentment', 'to wave', 'to
strangle', 'yoga', 'yogurt', 'seed', 'saw', 'to sow', 'case', 'room', 'soft',
'mild', 'meek', 'saddle', 'to saw', 'bag', 'pocket money', 'to lower',
'ointment', 'blessed', 'salmon', 'to anoint', 'sand', 'song', 'singer', 'drunk',
'zebra', 'sea', 'sieve', 'soap', 'very', 'victory', 'seal', 'blessing', 'to
say', 'sail', 'to sail', 'scythe', 'certain', 'self', 'self-conscious', 'self-
sufficient', 'smug', 'suicide', 'complacent', 'confident', 'selfish', 'to send',
'nerve', 'nervous', 'nervousness', 'nerves', 'tombstone', 'move', 'seat', 'to
set', 'sow', 'to whine', 'view', 'ill', 'sickly', 'hospital', 'disease', 'soul',
'pathetic', 'to see', 'side/silk', 'silver', 'sentence/sense', 'clean', 'to
sing', 'zinc', 'to sink', 'to fancy', 'seat', 'to sit', 'to search', 'to buzz',
'kiss', 'sweet', 'to nurse', 'attic', 'zombie', 'summer', 'sun', 'sin',
'sinful', 'flood', 'zone', 'to sun', 'sunshine', 'sole', 'zoom', 'son', 'care',

'carefree', 'to care', 'considerate', 'fool', 'salt', 'sigh', 'south', 'to
suck', 'column', 'to booze', 'dairy', 'pure', 'to will', 'sister', 'sister',
'acid', 'to wave', 'swan', 'heavy', 'sword', 'brother', 'weak', 'weakling',
'swallow', 'pregnant', 'black', 'sulfur', 'shadow', 'whip', 'ulcer', 'sweat',
'to swell', 'swim', 'swimmer', 'to swear', 'swarm', 'to swarm', 'to roam', 'to
sweat', 'to float', 'panache', 'to keep silent', 'taciturn', 'pig', 'to toil',
'sultry'] ['aardvark', 'abalone', 'abandon', 'abandonment', 'abbey', 'abdomen',
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'zilch', 'zillion', 'zinc', 'zing', 'zip', 'zipper', 'zit', 'zodiac', 'zombie',
'zone', 'zoning', 'zoo', 'zoom', 'zucchini']

```python
[63]: #create lists that contain only those words present in both datasets
      usedutch= []
      useenglish= []


      for word in Wordseng:
          for woord in Translationl:
              if word== woord:
                  if word not in useenglish:
                      useenglish.append(word)
                  if woord not in usedutch:
                      usedutch.append(woord)
```

```python
[64]: print(useenglish, usedutch)
      print(len(usedutch))
      len(useenglish)
```

['absent', 'absurd', 'abuse', 'accent', 'accident', 'accurate', 'ace', 'acid',
'acne', 'acorn', 'acquisition', 'act', 'active', 'acute', 'addicted', 'address',
'admirable', 'admiration', 'adolescent', 'adult', 'advantage', 'adventurous',
'advice', 'afraid', 'agency', 'aggression', 'aggressive', 'agony', 'agreement',
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'ark', 'arm', 'armchair', 'armed', 'armor', 'armpit', 'army', 'arrest',
'arrogant', 'arrow', 'art', 'artistic', 'ashamed', 'aspect', 'ass', 'assault',
'assertive', 'asshole', 'asthma', 'asylum', 'athlete', 'atlas', 'atmosphere',
'attack', 'attentive', 'attic', 'attractive', 'auditorium', 'aunt', 'aura',
'authority', 'autonomy', 'autumn', 'avalanche', 'avenue', 'average', 'aversion',
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'bang', 'banjo', 'bank', 'bankrupt', 'banner', 'banquet', 'banter', 'baptism',

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'beam', 'bean', 'bear', 'beard', 'beast', 'beautiful', 'beauty', 'bed', 'beer',
'beetle', 'beggar', 'beige', 'bell', 'belly', 'beloved', 'belt', 'beneficial',
'benefit', 'benign', 'betrayal', 'bewildered', 'bicycle', 'bile', 'billion',
'birch', 'bird', 'birth', 'birthday', 'bitch', 'bite', 'bitter', 'bizarre',
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'blessed', 'blessing', 'blind', 'blister', 'block', 'blonde', 'blood', 'bloom',
'blossom', 'blouse', 'blow', 'blubber', 'blue', 'bluff', 'blunder', 'blunt',
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'brother', 'brotherhood', 'brown', 'brush', 'brute', 'bucket', 'buckle',
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'tick', 'tidal wave', 'tide', 'tidy', 'tie', 'tiger', 'tile', 'tilt', 'time',
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'toast', 'tobacco', 'toddler', 'toe', 'toilet', 'token', 'tolerable',
'tolerant', 'toll', 'tomato', 'tomb', 'tombstone', 'ton', 'tone', 'tongue',
'tonic', 'tooth', 'toothache', 'top', 'torch', 'torment', 'torture', 'total',
'totem', 'touch', 'touchy', 'tough', 'tour', 'tower', 'track', 'trade',
'traffic', 'trail', 'train', 'tram', 'trance', 'transgression', 'transient',
'trashy', 'trauma', 'travel', 'treasure', 'tree', 'trend', 'tribe', 'trick',
'trio', 'trip', 'triumph', 'triumphant', 'troll', 'troop', 'trophy', 'tropics',
'trot', 'trough', 'trout', 'truck', 'truffle', 'trump', 'trumpet', 'trunk',
'truth', 'tub', 'tube', 'tulip', 'tumor', 'tuna', 'tunnel', 'turbo',
'turbulent', 'turkey', 'turn', 'turnip', 'tuxedo', 'twig', 'twist', 'type',
'tyrant', 'ugly', 'ulcer', 'unattractive', 'unbalanced', 'uncertain',
'uncertainty', 'uncle', 'unclear', 'unconventional', 'understanding',
'unemployed', 'unemployment', 'unethical', 'unfair', 'unfriendly', 'ungrateful',
'unhappy', 'unhealthy', 'union', 'unique', 'unit', 'unpleasant',
'unpredictable', 'unreasonable', 'unreliable', 'unrest', 'unromantic', 'unsafe',
'unstable', 'unsympathetic', 'unusual', 'upright', 'urge', 'urine', 'useful',
'utility', 'vagina', 'vague', 'valley', 'value', 'valve', 'vampire', 'vapor',
'variable', 'varnish', 'vase', 'vehicle', 'veil', 'vein', 'velvet', 'venom',
'versatile', 'version', 'vertebra', 'vest', 'veto', 'victory', 'view', 'villa',
'village', 'villain', 'vindictive', 'vinegar', 'violent', 'violet', 'violin',
'viper', 'virgin', 'virtuous', 'virus', 'visor', 'vital', 'vodka', 'voice',
'volcano', 'vomit', 'voucher', 'vulgar', 'vulnerable', 'vulture', 'wad',
'waffle', 'wage', 'wagon', 'waist', 'wait', 'waiter', 'wall', 'wallpaper',
'waltz', 'war', 'wart', 'wasp', 'waste', 'water', 'wave', 'way', 'weak',
'weakling', 'wealth', 'wealthy', 'weapon', 'weasel', 'web', 'wedding', 'wedge',
'weed', 'weight', 'west', 'wet', 'whack', 'wheat', 'wheel', 'wheelchair',
'whiff', 'whim', 'whip', 'white', 'whole', 'whore', 'wide', 'wig', 'wild',
'will', 'willful', 'willing', 'willow', 'willpower', 'winch', 'wind', 'window',
'wine', 'wing', 'wink', 'winner', 'winter', 'wipe', 'wire', 'wise', 'witch',
'wok', 'wolf', 'woman', 'wonderful', 'wood', 'woodpecker', 'wool', 'word',
'work', 'world', 'worm', 'worried', 'worthless', 'wound', 'wrath', 'wreath',
'wreck', 'wretch', 'wretched', 'wrinkle', 'wrist', 'writer', 'wrong', 'yard',
'yawn', 'year', 'yeast', 'yellow', 'yoga', 'yogurt', 'yoke', 'young', 'youth',
'zebra', 'zinc', 'zipper', 'zombie', 'zone', 'zoom']
2620
```

[64]: 2620

```
[65]: Vergelijk = Nediedereen.loc[Nediedereen.Translation.isin(usedutch)]
```

```
[66]: Compare = engels.loc[engels.Word.isin(useenglish)]
```

4.0.2   3.2. Compare the scores

Here I compare the scores english and dutch words get for Valence.

```
[67]: print(Vergelijk.sort_values('ValenceMA'))
      Compare.sort_values('V.Mean.Sum')
```

```
            Words Translation  ValenceMA  ValenceSDA  ValenceNA  ArousalMA  \
2504      pedofiel   pedophile   1.140625    0.393083       64.0   5.000000
1472        kanker      cancer   1.156250    0.365963       64.0   4.875000
1370        incest      incest   1.203125    0.509581       64.0   5.015625
4202      zelfmoord    suicide   1.296875    0.608920       64.0   5.343750
3828   verkrachting        rape   1.312500    0.794325       64.0   6.265625
...            ...         ...        ...         ...        ...        ...
3979         vrede       peace   6.421875    0.772641       64.0   2.828125
186      beeldschoon  beautiful  6.468750    0.712000       64.0   4.500000
1005    gelukkigheid  happiness   6.476190    0.618457       63.0   5.079365
1900         liefde        love   6.531250    0.853913       64.0   5.593750
1004        gelukkig       happy   6.609375    0.632887       64.0   4.640625

        ArousalSDA  ArousalNA  DominanceMA  DominanceSDA  DominanceNA  \
2504      1.623244       64.0     3.593750      2.321184         64.0
1472      1.618347       64.0     5.312500      1.950783         64.0
1370      1.628050       64.0     4.031250      2.336520         64.0
4202      2.025385       64.0     3.703125      2.388329         64.0
3828      1.087332       64.0     4.968750      2.376931         64.0
...            ...        ...          ...           ...          ...
3979      1.741689       64.0     5.203125      1.197613         64.0
186       1.380131       64.0     5.171875      1.303898         64.0
1005      1.383096       63.0     5.265625      1.144236         64.0
1900      1.388373       64.0     5.578125      1.165710         64.0
1004      1.462409       64.0     5.359375      1.200095         64.0

            AoAMA     AoASDA  AoANA  Length  Dominancecategories
2504    10.322581   3.048356   32.0       8                    2
1472     8.838710   2.464370   32.0       6                    2
1370    11.580645   2.717526   32.0       6                    2
4202     8.741935   2.175128   32.0       9                    2
3828    10.290323   2.584486   32.0      12                    2
...           ...        ...    ...     ...                  ...
3979     6.096774   2.071309   32.0       5                    2
186      7.322581   2.534917   32.0      11                    2
1005     7.933333   2.391556   31.0      12                    2
1900     5.838710   2.207514   32.0       6                    2
```

```
1004    5.774194   1.430843    32.0        8                    2
```

[3097 rows x 16 columns]

[67]:

	Word	V.Mean.Sum	V.SD.Sum	V.Rat.Sum	A.Mean.Sum	A.SD.Sum	\
8846	pedophile	1.26	0.65	19	5.05	3.21	
12660	torture	1.40	0.82	20	5.09	2.55	
8003	murder	1.48	0.81	21	6.24	2.76	
42	abuse	1.53	1.07	19	6.21	2.17	
9860	rape	1.54	1.36	82	7.24	1.99	
…	…	…	…	…	…	…	
4929	free	8.25	1.36	870	5.38	3.04	
4121	enjoyment	8.37	0.96	19	5.48	2.72	
5007	fun	8.37	0.96	19	6.32	2.62	
5595	happy	8.47	1.28	43	6.05	2.13	
5594	happiness	8.48	0.81	21	6.50	2.63	

	A.Rat.Sum	D.Mean.Sum	D.SD.Sum	D.Rat.Sum	…	A.Mean.H	A.SD.H	\
8846	22	3.37	2.04	27	…	5.83	2.71	
12660	45	2.76	2.05	45	…	5.31	2.41	
8003	21	3.38	2.28	16	…	6.40	2.59	
42	42	2.90	2.17	20	…	6.55	2.01	
9860	83	2.47	2.29	107	…	7.36	1.79	
…	…	…	…	…	…	…	…	
4929	42	6.50	2.71	50	…	5.53	3.29	
4121	44	6.56	2.12	25	…	4.71	2.71	
5007	41	7.04	1.85	46	…	5.64	2.84	
5595	21	7.21	1.96	62	…	5.64	2.16	
5594	20	7.05	2.16	21	…	6.67	2.42	

	A.Rat.H	D.Mean.L	D.SD.L	D.Rat.L	D.Mean.H	D.SD.H	D.Rat.H	YO
8846	6	3.58	2.11	12	3.20	2.04	15	-0.13
12660	16	2.88	2.18	26	2.58	1.89	19	0.12
8003	15	3.56	2.46	9	3.14	2.19	7	0.55
42	20	3.89	2.32	9	2.09	1.76	11	-0.48
9860	45	3.02	2.77	50	1.98	1.64	57	0.37
…	…	…	…	…	…	…	…	
4929	19	6.33	3.03	24	6.65	2.43	26	-0.16
4121	17	6.72	2.32	18	6.14	1.57	7	0.36
5007	11	7.18	1.98	28	6.83	1.65	18	0.57
5595	11	7.05	2.28	39	7.48	1.24	23	-0.17
5594	6	7.25	1.96	12	6.78	2.49	9	-0.20

[2620 rows x 65 columns]

Some words recieved similar Valence ratings in Dutch and in English. 'Pedophile' and 'Rape' are both among the 5 most negative words, and 'happy' is one of the words with the most positive meaning. The words 'free', 'enjoyment' and 'fun' are highly ranked for Valence by the english

audience, but are not in the top 5 of dutch people. I wonder how they are rated in the dutch dataset.

```
[68]: Vergelijk.loc[Vergelijk['Translation'] == 'free']
```

```
[68]:        Words Translation  ValenceMA  ValenceSDA  ValenceNA  ArousalMA  \
      1132  gratis        free   5.890625    1.025348       64.0   3.812500
      3989    vrij        free   5.984375    0.863588       64.0   3.953125

            ArousalSDA  ArousalNA  DominanceMA  DominanceSDA  DominanceNA      AoAMA  \
      1132    1.500000       64.0     4.390625      1.242338         64.0   6.096774
      3989    1.617657       64.0     5.046875      1.277767         64.0   5.129032

              AoASDA  AoANA  Length  Dominancecategories
      1132  1.535249   32.0       6                    2
      3989  1.384243   32.0       4                    2
```

```
[69]: Vergelijk.loc[Vergelijk['Translation'] == 'enjoyment']
```

```
[69]:        Words Translation  ValenceMA  ValenceSDA  ValenceNA  ArousalMA  \
      1015  genot   enjoyment      6.125     0.82616       64.0    4.90625

            ArousalSDA  ArousalNA  DominanceMA  DominanceSDA  DominanceNA      AoAMA  \
      1015    1.399759       64.0        5.125      1.147807         64.0   9.225806

              AoASDA  AoANA  Length  Dominancecategories
      1015  2.654677   32.0       5                    2
```

```
[70]: Vergelijk.loc[Vergelijk['Translation'] == 'fun']
```

```
[70]:          Words Translation  ValenceMA  ValenceSDA  ValenceNA  ArousalMA  \
      2595  plezier         fun    6.21875    0.844567       64.0   5.390625
      2673     pret         fun    6.00000    0.835711       64.0   5.421875

            ArousalSDA  ArousalNA  DominanceMA  DominanceSDA  DominanceNA      AoAMA  \
      2595    1.163154       64.0      4.96875      1.068581         64.0   5.032258
      2673    1.035937       64.0      4.62500      1.046536         64.0   5.548387

              AoASDA  AoANA  Length  Dominancecategories
      2595  1.779211   32.0       7                    2
      2673  1.997310   32.0       4                    2
```

The 3 cells above show that often multiple dutch words have the same english translation, but they do still differ a little bit in their meaning. For example 'gratis' en 'vrij' have a difference of 1 point on the Dominance-mean. This subtle difference exist between those 2 words but also make it very clear that 'free' is not an exact translation of what these words mean. Words that can be translated to oneanother can still differ in their meaning and thus their scores for Valence, Dominance and Arousal. Overall however these words that are top 5 in the english dataset for Valence also yield positive scores in dutch, so the meanings are not completly different.