

S1 File. Supporting Analyses, Results and Null models

Do Emotions Expressed Online Correlate with Actual Changes in Decision-Making and Judgment?: The Case of Stock Day Traders

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MEASUREMENT AND ROBUSTNESS CHECKS

Emotional Activation

To code words in texts we prepped each text by (i) reducing each word to its stem word (Porter 1980) (e.g., connecting or connection = connect); (ii) converting abbreviations to words (e.g., lov and luv to love); (iii) coding words in the text for activation using the ANEW dictionary's standard word scale of 0.0 to 9.0. The Affective Norms for English Words (ANEW) dictionary contains English words, which, when used in conversation, provides a proxy for a person's level of emotional activation. The ANEW was validated using autonomic physiological responses (pulse, conductance, etc.) and is used extensively across research domains (e.g., the search term "The Affective Norms for English Words" generates more than 100,000 Google hits). Following prior work on establishing a level at which activation is considered to occur for an individual, we followed prior work (e.g., Kassam et al. 2013) and defined a person as being in an activated state (1=yes; 0=otherwise) if their average activation level exceeded a threshold level of activation based on the activation words appearing in the text. Because there is no a priori theory specifying an exact threshold, we addressed the issue empirically and used three thresholds. The three thresholds were 4.5, 5.0, or 5.5.

Null Models

To test that activation effects are not due to chance, we constructed null models that randomized the ordering of texts over the hour, day, week, or month. These tests verified that chance did not explain observed periods of activation ($p < .0001$).

Sensitivity Tests for Different Thresholds of Activation

*To test that activation effects are robust to a chosen threshold and length of duration of activation, we used three threshold values 4.5, 5.0, and 5.5 and 7 durations 30, 35, 40, 45, 50, 55, and 60 minutes. All three thresholds produced a similar pattern of effects as noted above. According to a binomial test, the likelihood that 448/735 (=3*7*35) pass the two-tail binomial test has a p -value<.00001 as shown above in the regression analyses.*

Counts of the Top 200 Activation Words used by All Traders

The S1A and S2B Figures show the frequency count of the appearance of ANEW activation words in traders' texts. In cases where traders use abbreviations and intentional misspelled words in their texts, e.g., plai for play or comput for compute, we report native spellings.

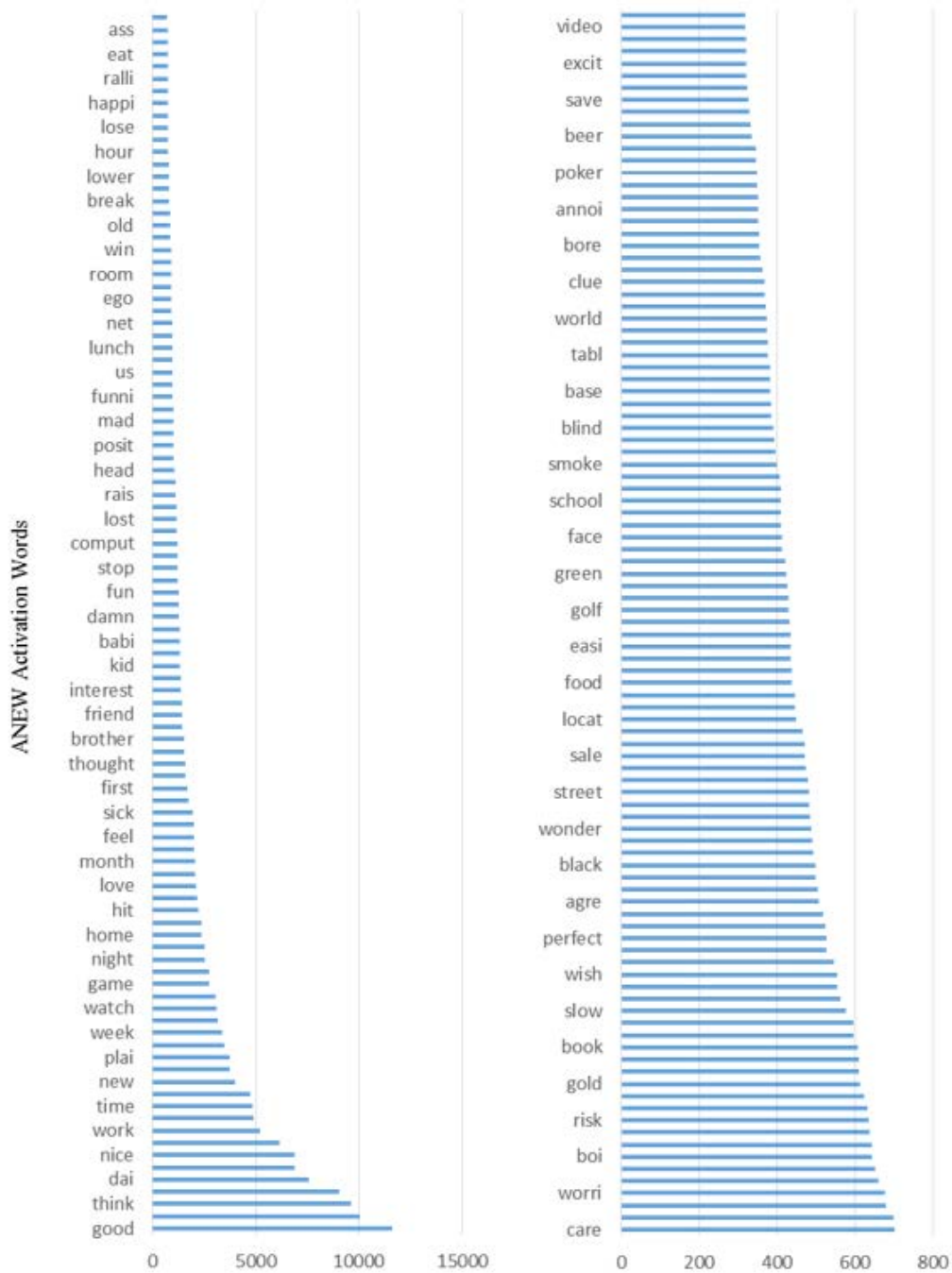


Figure A in S1 File. Counts of the Top 1-100 (left panel) and 101-200 (right panel) Activation Words Appearing in Traders' Instant Messages

Decision Error

The *relevant unit of analysis* for measuring decision error is the quality of trading decisions at the level of the day for several reasons. *First*, maximizing performance at the level of the day, not at the level of a trade, is the objective function of a trader. Traders are evaluated at the level of the day by managers and analysts. *Second*, traders make up to hundreds of decisions a day. Thus, a trade-by-trade analysis is not as informative as the average daily decision acumen. *Third*, prior research specifically on stock traders has validated this measure (Lo and Rapin 2002; Saavedra et al. 2011; Steenbarger 2002; Lo et al. 2005). Consistent with this logic, we analyzed the relationship between decision error and activation at the day level.

Decision Error is measured as the difference between the trade price and the hypothetical best price for that trade, scaled by the number of shares traded in that trading decision and averaged over a day to give the average deviation over decisions in a day. For example, suppose a subject bought Google stock at \$266.88 per share at 10:31 and Google stock prices at 10:30 ~ 10:35 were between \$265.11 and \$268.99 a share. The subject's deviation is the actual price (\$266.88) and "best" price (\$265.11) multiplied by the number of shares and vice versa for sell decisions.

Null models of Random Decision Error

We randomly sampled 1,000 prices from each 5-minute window around a trading decision verified that chance could not explain the observed decision error ($p < 0.00001$).

Face Validity

Measure has *face validity*: decision error per trade is correlated with a trader's daily profit ($p = 0.005$).

Agreement among Alternative Measures of Decision Error

Different measures of Decision Error produced similar patterns of findings. The (1) median, (2) arithmetic mean, (3) harmonic mean, (4) geometric mean, (5) grand mean-arithmetic mean, (6) grand mean – harmonic mean, (7) grand mean – geometric mean, and (8) z-score all produced similar results. To do these tests, we ran regressions that consisted of the 8 different measures of Decision Error and our 21 different threshold conditions for being activated times our 35 subjects. The threshold conditions used were: three threshold values 4.5, 5.0, and 5.5 for level activation and 7 emotional activation durations of 30, 35, 40, 45, 50, 55, and 60 minutes (explained in detail above in the section on emotional activation). This produced $8 \times 3 \times 7 \times 35 = 5,880$ regression coefficients for our 35 subjects. We found that 61.79% of the regressions coefficients were significant and in the predicted direction ($p < 0.00001$) (i.e., we ran separate a regression for each subject). This pattern of results is unlikely to occur by chance (binomial test, $p < 0.00001$). A fixed-effect regression pooling all the individual traders and dummy coding each trader separately in the regression confirmed the within-subject effects across the 8 different measures.

Regression Specification

The fixed-effects regressions estimate the effect for the “average” subject using a fixed effect for each trader, frequency weights for number of trades, robust standard errors and standard errors clustered by trader.

Dependent Variable

Decision Error (defined above)

Independent Variable

Emotional Activation (defined above)

Control variables

1. *Daily Volatility* measured by the VIX to control for market uncertainty,
2. *End of Day profit of the Trader at t-1* to control for risk aversion,
3. *Daily Total IMs sent* by the trader to control for IM volume,
4. *Informational complexity of trader’s IMs* to control for information in texts affecting decision making error,
5. *Informational complexity of news* to control for public information affecting decision making acumen,
6. *Sentiment of the trader’s IMs* to control for sentiment toward information in texts,
7. *Sentiment of news* to control for sentiment in public information
8. *Crash*
9. *Day of Year Fixed Effect* to control for *Daily Number of Active Traders* at the firm to control for organizational effects, profits for the day, and all other values that are fixed for a single day but can vary between days
10. *Day-of-Week Fixed Effect* to control for the possibilities that Mondays differ from Tuesdays because the markets reopened after the weekend close, Friday traders may go home early, etc.),
11. *Trader Fixed Effect*

Null model tests of the regression coefficients show they cannot be explained by chance.

We compared all the regression models for each subject with the observed instant messages randomized at the *week, month and year* level against those obtained from randomization. 13,055 out of 17,640 regressions (recall we have in total 5,880 regressions for decision errors, so the three permutation granularities produce $5,880 \times 3 = 17,640$ cases for null models), had coefficients that were different than expected by chance (z-score > 2 for Activation², and z-score < -2 for Activation) using this formula: $Z\text{-score} = [\text{observed } \beta - \text{mean}(1,000 \text{ permuted } \beta\text{s})] \div [\text{std}(1,000 \text{ permuted } \beta\text{s})]$. The difference observed between the actual and null models was unlikely to occur by chance ($p < .00001$) according to a binomial test.

Sensitivity Tests in Regressions for Activation Levels

For the individual and fixed effects regressions we ran a large range of regressions. The regressions had the same dependent variables, same independent variables and same control variables as noted above. The change from regression to regression depended on *threshold of activation* chosen. As discussed in the text, we had three thresholds, 4.5, 5.0, and 5.5. 60% of regressions had significant negative coefficients for emotional activation and a significant positive coefficient for emotional activation squared (the hypothesized relationships). According to a binomial test, the likelihood that 448/735 pass two-tail binomial test has a p -value < .00001.

Functional Form Analysis

Residual plots

Residual plots indicated that the relationship between activation and decision error was non-linear. The best fitting model was of the form Decision error = Activation + Activation² and was confirmed. The BIC of the linear equation was somewhat higher than the quadratic equations, which also indicated that the quadratic was a better fit

Wald Test

A *Wald test* of the quadratic fit vs. a similar simple linear model confirmed the fit of the quadratic model ($p < .006$).

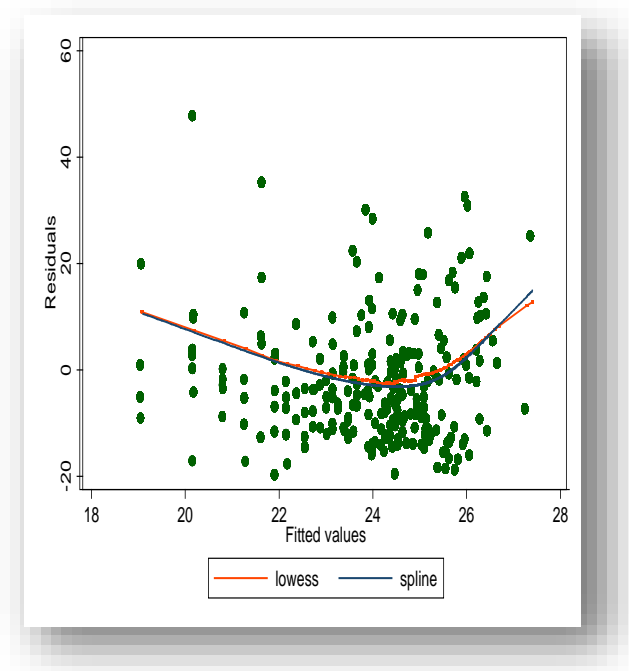


Figure B in S1 File. Residual Plot of the Residuals of a Regression of Decision Error on Activation.

Individual Trader Plots

Below we present the scatter plot of each trader's emotional activation and decision error relationship.

----- Median Decision Error of Trade Decision (\$) -----

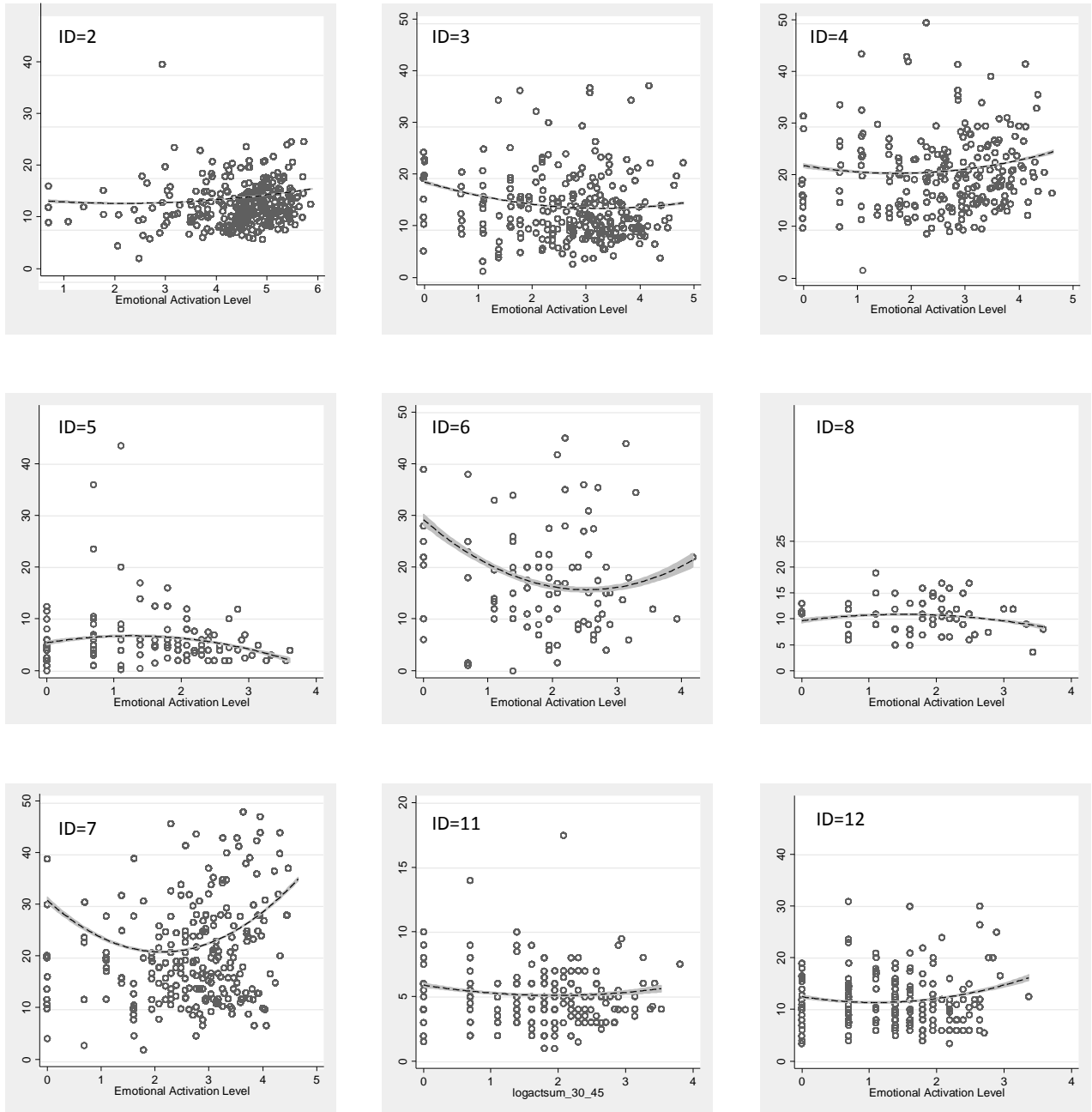


Figure C in S1 File. Scatter Plots of Each Trader’s Decision Error and Emotional Activation Relationship. Below are the separate scatter plots for each trader in our study. Scatter plots bordered in red indicate that a U-shaped relationship between emotional activation and decision errors was statistically supported; the linear term was significant and negative ($p < .05$) and the quadratic term was significant and positive ($p < .05$). The ID number of each trader is indicated in the top left corner of each plot. A fixed-effects regression (Table 1) pooling all the traders together showed that the U-shaped relationship though not universal among traders holds on average for the traders net of control variables.

Median Decision Error of Trade Decision (\$) -----

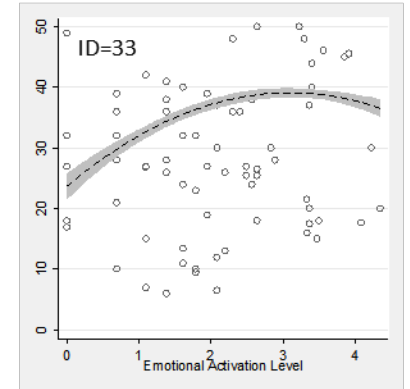
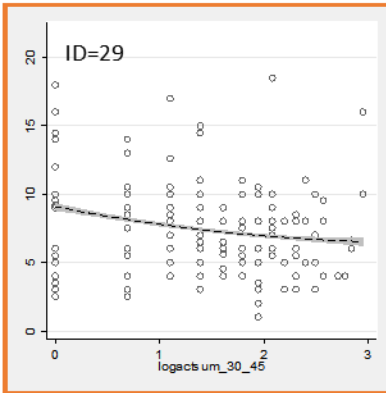
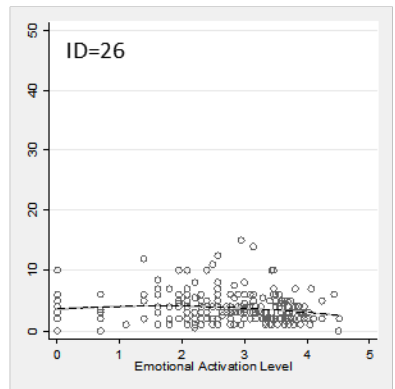
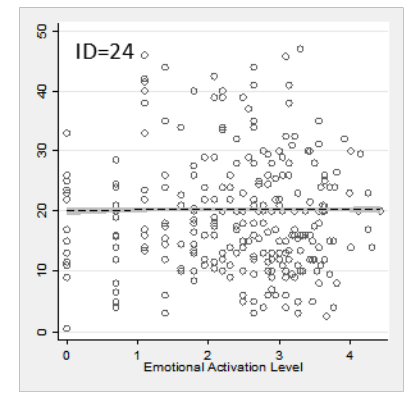
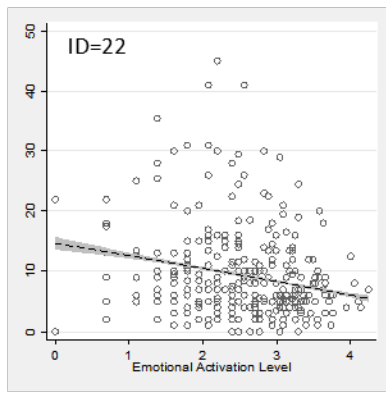
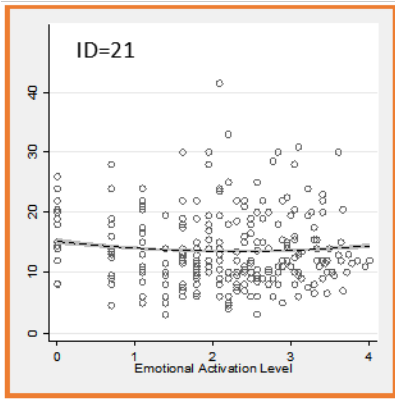
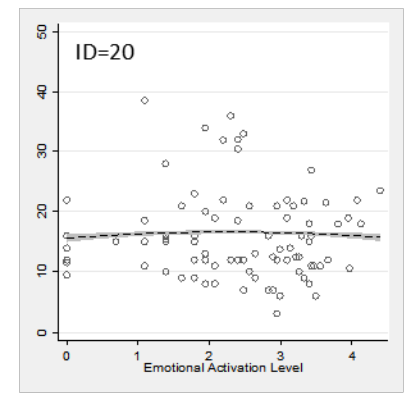
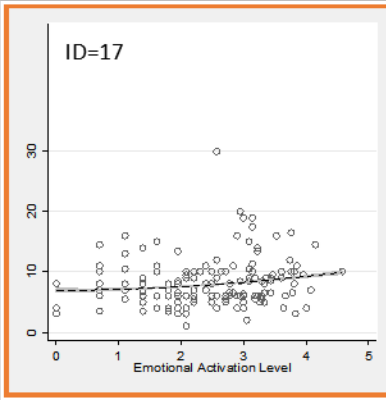
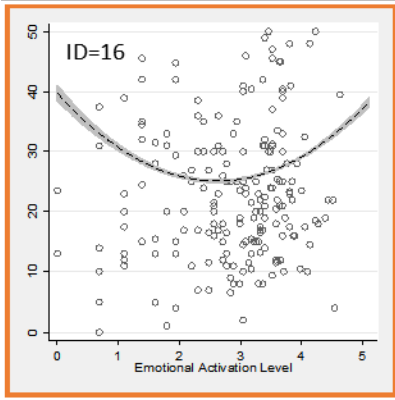
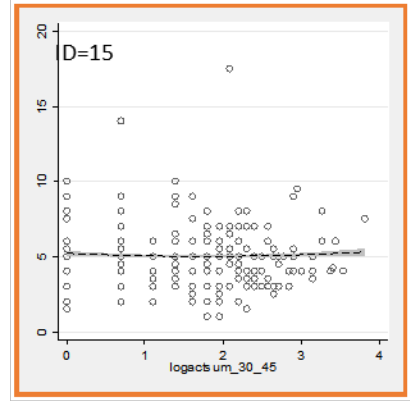
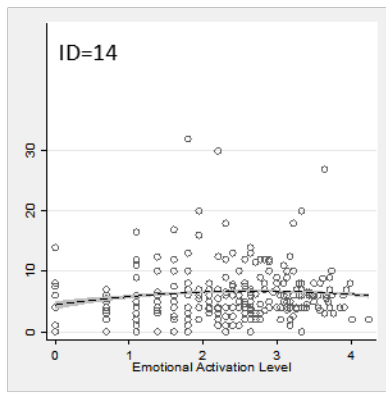
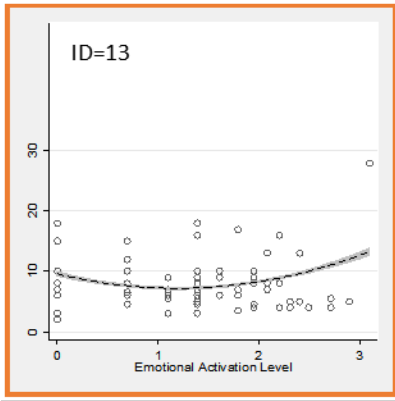


Figure D in S1 File. Scatter Plots of Each Trader's Decision Error and Emotional Activation Relationship.

----- Median Decision Error of Trade Decision (\$) -----

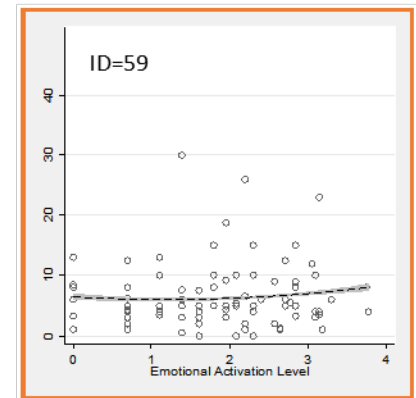
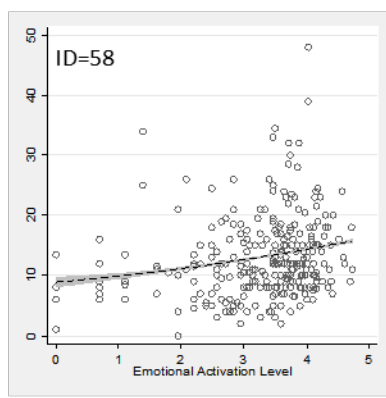
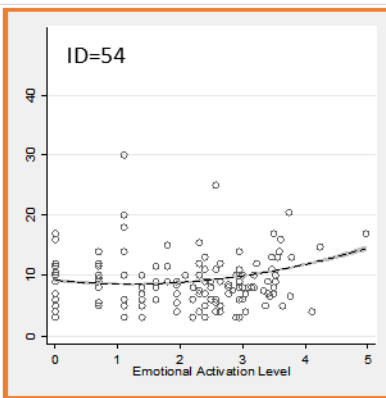
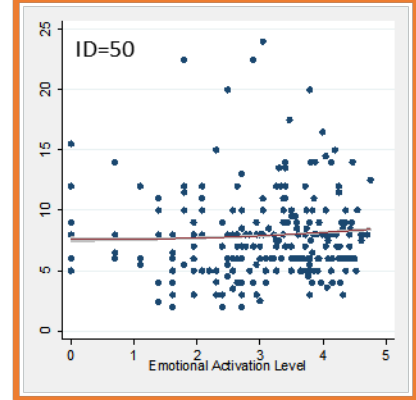
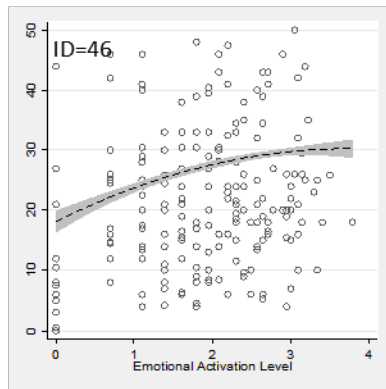
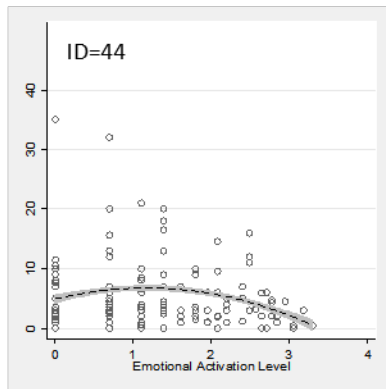
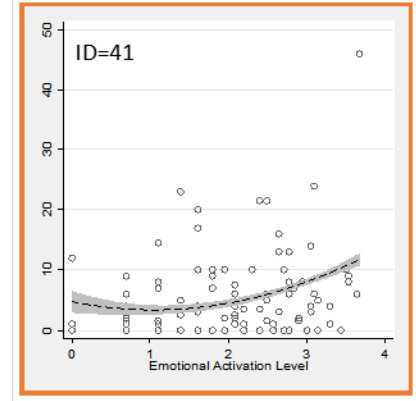
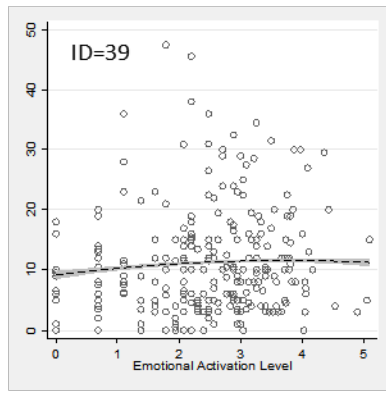
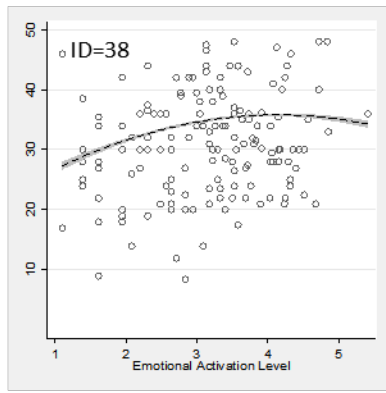


Figure E in S1 File. Scatter Plots of Each Trader's Decision Error and Emotional Activation Relationship

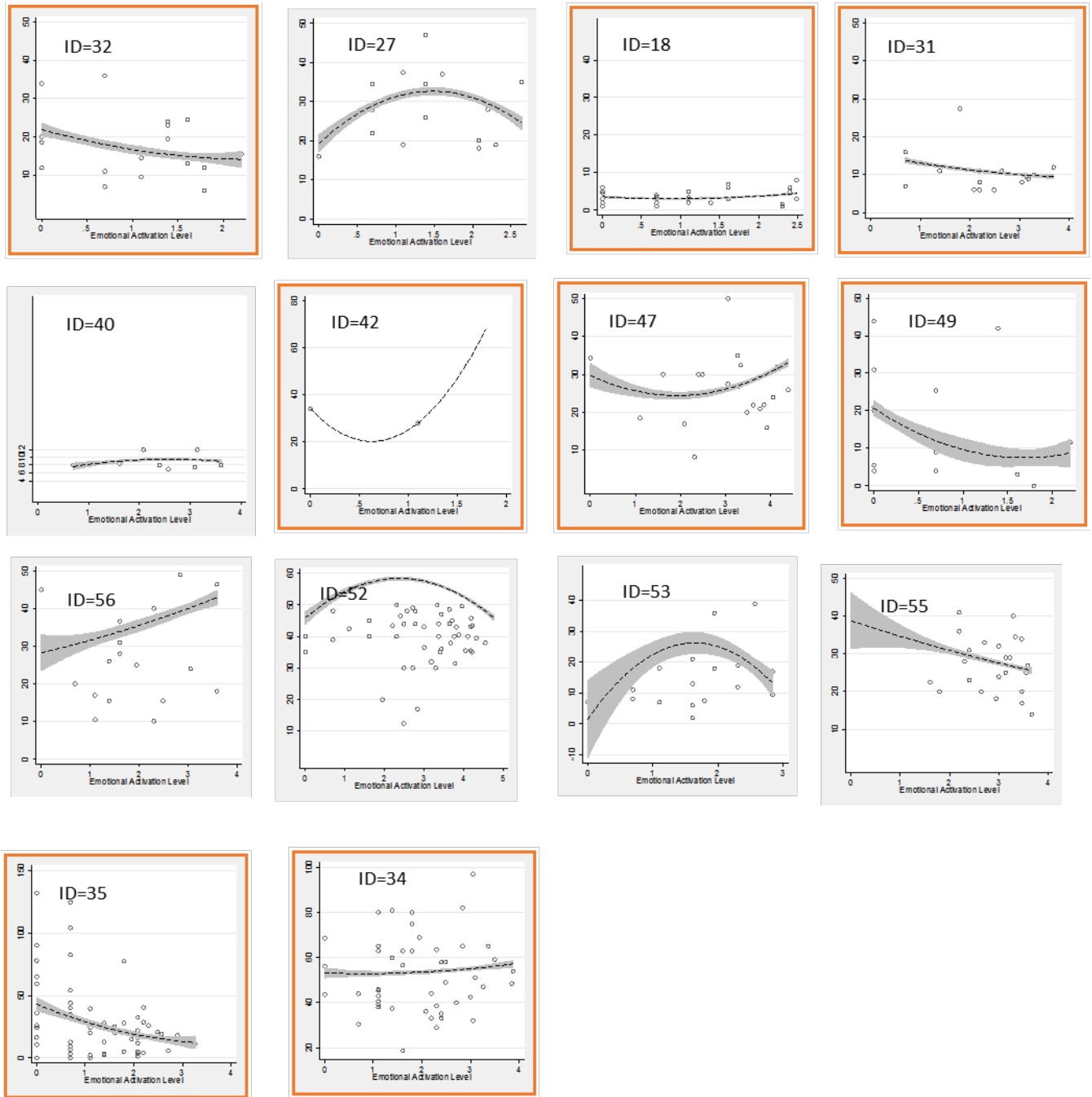


Figure F in S1 File. Scatter Plots of Trader Omitted from the Analysis due to Selection Bias. These 14 traders worked sporadically or too seldomly to include in the analysis (e.g. trader 42) because of the unknown sampling selection bias that can be introduced into the analysis by their atypical participation. Another 12 traders did not have trading data owned by the firm: they were freelance traders. Scatter plots bordered in red indicate that a U-shaped relationship between emotional activation and decision errors was statistically supported; the linear term was significant and negative ($p < .05$) and the quadratic term was significant and positive ($p < .05$). The ID number of each trader is indicated in the top left corner of each plot. Including the 14 additional cases with sketchy data does not produce results dissimilar from those reported for the 30 cases on which there is systematic data. For example, when including all 42 cases in the fixed effects regression reported in the main paper, the coefficients for emotional activation and emotional activation squared are -1.119 ($p=0.016$) and 0.2906 ($p=0.004$) respectively.

Information Complexity & Sentiment Control Variables

We measure not only the emotional activation of IMs but also the information in the messages themselves. This added control is important because information complexity and sentiment can affect a decision's accuracy independent of activation levels [26-28]. Thus, we controlled for the sentiment and information complexity of each trader's IMs and public trading information. Thirteen different sentiment and information complexity variables were added to regressions as control variables.

To verify the validity of these controls as measures of sentiment and information complexity, we correlated the number of trading decisions taken per day with negative vs. positive sentiment and low vs. high information complexity. We defined negative and positive sentiment and low and high information complexity as being below and above the median of these variables, respectively. (Note: emotional activation is a fundamentally different concept than positive or negative emotions or positive or negative sentiments because high emotional activation can occur when emotions or sentiments are negative or positive.) As expected, validation tests confirmed that positive sentiment was positively related to the number of trading decisions and high information complexity was negatively related to the number of trading decisions ($p = 0.0044$ and $p=0.0054$ Wilcoxon rank-sum tests). Other pertinent control variables known to affect the trading behavior and decision acumen of traders were included in our regressions as specified in standard financial models (30-31).

Measures

To calculate the complexity of Bloomberg news feeds (hereafter "Bloombergs") and individual instant messages we used compression, entropy, and perplexity measures. To compute the sentiment of Bloombergs and instant messages we used the Loughran and McDonald method (2011). Traders use Bloomberg newsfeeds to find and summarize the key information out of the surfeit of publicly available data. Bloomberg Corporation systematically tracks an exceptionally broad range of market data and pushes the "filtered" information to traders via e-messages. The ubiquitous use of, and high cost of access to, Bloomberg news feeds in finance attests to their value. The way in which these measures are related to decision making error are described in the text.

Information Complexity Methods

1. *Compression measures.* Five compression algorithms were used (ZIP, TAR, GZIP and 7ZIP). For a string, the complexity using any compression algorithm should be [0,1].
2. *Entropy and Perplexity measures.* For each Bloomberg and instant message, we calculated the entropy and perplexity at the character and word level of analysis. Note that at word level, we only keep words that are "meaningful". Stop words and non-financial words are removed.
3. Formulas:
 - a. LZMA algorithm: http://en.wikipedia.org/wiki/Lempel-Ziv-Markov_chain_algorithm; GZIP algorithm: <http://www.gzip.org/>; BZIP2 algorithm: <http://www.bzip.org/>; DEFLATE algorithm: <http://en.wikipedia.org/wiki/DEFLATE>; PPM algorithm: http://en.wikipedia.org/wiki/Prediction_by_partial_matching; Entropy: <http://en.wikipedia.org/wiki/Entropy> ; Perplexity: <http://en.wikipedia.org/wiki/Perplexity>

Procedures

For each of the compression algorithms listed above, we calculate information complexity as follows:

1. Use a compression algorithm to compress a string (e.g., abcd abcd”) and obtain the "compression ratio", r_1
2. Use the same algorithm to compress the simplest string of the same length, i.e., a string of the same length as the focal string but containing only one character, e.g., "aaaaaaaa", and obtain the "compression ratio", r_2
3. Complexity is calculated as: $1 - r_1 / (r_2 - 1)$ and ranges from 0 to 1.

Variables

1. *Complexity of IMs and Bloomberg News Feeds* (daily level of information complexity is the average of all values of news in one day): 9 different measures

- blzma: complexity value of applying lzma compression to the news
- bgzip: complexity value of applying gzip compression to the news
- bbzip2: complexity value of applying bzip2 compression to the news
- bdeflate: complexity value of applying deflate compression to the news
- bppmd: complexity value of applying ppmd compression to the news
- bcentropy: character level entropy value of the news
- bcperplexity: character level perplexity value of the news
- bentropy: word level entropy value of the news
- bperplexity: word level perplexity value of the news

Sentiment Methods

Using Loughran and B. McDonald’s method (2011), “When is a Liability not a Liability,” *Journal of Finance*, V66, pp. 35-65; http://www3.nd.edu/~mcdonald/Word_Lists.html, we computed the sentiment of each Bloomberg and instant message using a finance specific lexicon.

Procedures

Bloomberg Financial words and IM sentiment statistics (each co-variable is obtained by counting the number of news that has at least one financial word (xxx_ct) or counting the number of financial words in all news (xxx_sum) within one day). For example, if there are 3 Bloomberg news items in one day, suppose the first one contains 3 positive financial words while the second one contains 5 positive financial words, and the third one contains no financial words. Then, for this day, the variable $bpos_ct = 1+1+0 = 2$, and $bpos_sum = 3+2+0 = 5$. Bpos_ct and bpos_sum are defined below. *IM Financial words statistics* were calculated using the same method as for Bloomborgs.

Variables

- bneg_ct: number of news containing at least one Negative financial word
- bneg_sum: number of Negative financial words in all news
- bpos_ct: number of news containing at least one Positive financial word
- bpos_sum: number of Positive financial words in all news
- bunce_ct: number of news containing at least one Uncertainty financial word
- bunce_sum: number of Uncertainty financial words in all news
- bliti_ct: number of news containing at least one Litigious financial word

- bliti_sum: number of Litigious financial words in all news

Table A in S1 File. Coding Scheme for Defining the Information Complexity and Sentiment of Instant Messages

| Complexity of Information Measure | | | | | | | | | Content of Bloomberg |
|-----------------------------------|--------|--------|---------|--------|----------|-------------|---------|------------|--|
| lzma | gzip | bzip2 | deflate | ppmd | centropy | cperplexity | entropy | perplexity | |
| 0.9695 | 0.8859 | 0.8224 | 0.9713 | 0.9605 | 5.182 | 36.3018 | 4.8402 | 28.6453 | *NCITI DERVS AM: THE CARS - DRIVE...SOUTH? NKY 10D VOL 13.8%?? Inflows net flat for now -buy reits,wsale & sell auto,techs.etc. Though Euro EQs get whacked w/ V2X jumpg to 26.25, US EQ catches late bid & VIX eases 25.5->23.6. CDX.NA.IG still @ hi-end + |
| 0.9694 | 0.8844 | 0.823 | 0.9709 | 0.9599 | 5.1926 | 36.5702 | 4.5236 | 23 | EURUROMARKETS -0.5% ON WEAK \$(EUR1.4313),US RATE CUT LIKELY OCT 31 CASINO Sells property worth E650m(as opposed to Tesco bid rumors CLARINS Q3 sales +8%(10.8% org)to E231.8m above SGe.Reits f'cast EADS ILFC ordered 20 A350s(less than exp),also 74 Drea |
| 0.9692 | 0.8863 | 0.8333 | 0.9714 | 0.961 | 5.2794 | 38.8393 | 4.2971 | 19.6585 | AUTO EVENTS TODAY: ML Conf Call - transformation at GM & Ford. (Today 10:00am EDT). Please join us to discuss the impact of the pending UAW labour contract. http://research1.ml.com/CFCR/GetDoc.aspx?q=KYQM%2Bs0078%2FtljEpgrEYA%3D%3D ** US markets: Mkts e |
| 0.8106 | 0.5003 | 0.361 | 0.8245 | 0.7641 | 0.8722 | 1.8304 | 1.585 | 3 | GPS 122/129 UNCH POST EARNINGS |
| 0.8106 | 0.4907 | 0.3946 | 0.8193 | 0.7571 | 0.7925 | 1.7321 | 1.585 | 3 | CAL pfd 25k at 35 1/2 vs 25.75 |
| 0.8106 | 0.4907 | 0.4101 | 0.8193 | 0.7571 | 0.7718 | 1.7074 | 1.585 | 3 | YRCW 5% 95 1/4 bid 614m vs 17 |
| | | | | | | | | | Content of Instant Messages |
| 0.9676 | 0.8757 | 0.813 | 0.9685 | 0.9561 | 4.6372 | 24.885 | 4.6439 | 25 | Jason, do you look at MLM, Vulcan, Eagle, Texas Industries, St.Gobain, Lafarge, Cemex, etc? Mike Betts will be in CT next Thursday, March 13, we just had a cancellation for 12pm lunch there, if that would work, let me know. |
| 0.9676 | 0.8796 | 0.8203 | 0.9696 | 0.9568 | 4.7569 | 27.0379 | 3.9069 | 15 | MACRO: FINANCIALS NOT THE FOCUS TODAY For what feels like the first time in a while, Financials won't be the primary focus today. Microsoft's bid for Yahoo (61% premium) has S&P futures up a quick 15 this morning. I'd still be hesitant to come to |
| 0.9676 | 0.8768 | 0.8114 | 0.9688 | 0.9568 | 4.7883 | 27.6322 | 4.3219 | 20 | I BET SOUTHEASTERN IS BLOWING OUT THE LVLTT TOO -- I WOULDN'T PLA Y ANY \$2 STOCK BUT I LOVE TO WATCH. This T is now stupid trading. I'm going to buy some out of attitude. I wish we could take advantage of NYT move but with the short recall pr |

| | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|---------|--------|---|--|
| 0.8871 | 0.5896 | 0.2059 | 0.9016 | 0.8653 | 3.8099 | 14.0252 | 2.8074 | 7 | i was trying to sell at 68. then went to hit 67.25 bid.....toooooo slow..... |
| 0.8871 | 0.54 | 0.25 | 0.894 | 0.8633 | 3.9259 | 15.1986 | 2 | 4 | mike 1 day i can trade 1000 shares all my stocks move multiple points |
| 0.8871 | 0.5512 | 0.257 | 0.8973 | 0.8702 | 4.1443 | 17.6831 | 2.585 | 6 | this thing could actually be worth a shot if it opened close to 16.50 |

Factor Analysis of Information Complexity and Sentiment Measures

Conceptually and empirically, the measures of information complexity should correlate with each other and the measures of sentiment should correlate with each other. If this is the case, it is better to analyze related measures as factors rather than individual measures to avoid multicollinearity problems in the regression analyses.

To this point, we examined all the separate information complexity and sentiment measures for intercorrelations via factor analytic procedures using Stata in an attempt to reduce the 34 separate measures into a more economic set of factors. Factors represent highly correlated individual items, where the high correlation suggests they are measuring a related underlying construct. The protocol is conservative and minimizes noise due to individual differences and multicollinearity in a regression. We used the default factor analysis settings (Principal Axis Factor) and rotated the matrix of loadings to obtain orthogonal (independent) factors (Varimax rotation). We identified items loadings >0.10 only. This produced 4 factors, which are presented below. As expected, measures of information complexity were correlated with each other and measures of sentiment were correlated with each other but information complexity and sentiment were not correlated with each other. In addition, information complexity and sentiment were further parsed along the lines of Bloombergs and instant messages. S2 Table summarizes the factor analysis.

In our regression analyses, we ran separate analyses using the 4-factor variables below and all 34 separate measures of information complexity or sentiment. Using the factors or the separate measures did not affect the relationship between activation and decision error. Factors provided a more consistent pattern across results as expected. The factors consistently showed effects on decision making in the expected directions. The individual measures had a spottier pattern of results when used individually, as expected. Hence, we report the factor variables in our regressions.

Table B in S1 File. Factor Analysis of Information Complexity and Sentiment Measures

| Factor | Construct | Individual measures loading together on the same factor |
|--------|----------------------------------|---|
| 1 | Bloomberg Sentiment | (bunce_ct+bunce_sum)/2 |
| 2 | IM Information Complexity | (ilzma + igzip+ibzip2+ideflate+ippmd+icentropy+icperplexity+ientropy)/8 |
| 3 | IM Sentiment | (ineg_ct+ineg_sum+ipos_ct+ipos_sum+iunce_ct+iunce_sum+iliti_ct+iliti_sum)/8 |
| 4 | Bloomberg Information Complexity | (blzma+bgzip+bbzip2+bdeflate+bppmd+bcentropy+bperplexity)/7 |

Factor analysis/correlation

Number of obs = 770029

Method: principal-component factors
Rotation: (unrotated)

Retained factors = 4
Number of params = 130

| Factor | Eigenvalue | Difference | Proportion | Cumulative |
|----------|----------------|------------|------------|------------|
| Factor1 | 15.7220 | 6.68794 | 0.4624 | 0.4624 |
| Factor2 | 9.03414 | 5.19822 | 0.2657 | 0.7281 |
| Factor3 | 3.83592 | 1.61533 | 0.1128 | 0.8409 |
| Factor4 | 2.22059 | 1.38630 | 0.0653 | 0.9063 |
| Factor5 | 0.83428 | 0.12155 | 0.0245 | 0.9308 |
| Factor6 | 0.71273 | 0.28203 | 0.0210 | 0.9518 |
| . | | | | |
| . | | | | |
| . | | | | |
| Factor34 | 0.00000 | 0.00000 | 0.0000 | 1.0000 |

(Note: factors with Eigenvalues <1.0)

Table C in S1 File. Affective Norms for English Words (Bradley, M.M., & Lang, P.J., 2010)

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) | Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|--------------|----------|------------------|------------------|---------------------|
| abduction | 621 | 2.76 (2.06) | 5.53 (2.43) | 3.49 (2.38) | advantage | 629 | 6.95 (1.85) | 4.76 (2.18) | 6.36 (2.23) |
| able | 1041 | 6.74 (2) | 4.30 (2.17) | 6.83 (2.04) | adventure | 630 | 7.60 (1.5) | 6.98 (2.15) | 6.46 (1.67) |
| abortion | 622 | 3.50 (2.3) | 5.39 (2.8) | 4.59 (2.54) | advice | 1060 | 6.17 (1.42) | 5.17 (1.74) | 5.47 (2.1) |
| absent | 1042 | 3.69 (1.72) | 4.73 (1.76) | 4.35 (1.87) | affair | 1061 | 3.12 (1.94) | 6.21 (2.54) | 3.71 (2.16) |
| absurd | 623 | 4.26 (1.82) | 4.36 (2.2) | 4.73 (1.72) | affection | 7 | 8.39 (0.86) | 6.21 (2.75) | 6.08 (2.22) |
| abundance | 624 | 6.59 (2.01) | 5.51 (2.63) | 5.80 (2.16) | affectionate | 1062 | 7.20 (1.85) | 5.67 (2.83) | 5.57 (2.21) |
| abuse | 1 | 1.80 (1.23) | 6.83 (2.7) | 3.69 (2.94) | affirm | 1063 | 6.17 (1.23) | 4.79 (1.37) | 6.07 (1.25) |
| accept | 1043 | 6.80 (2.11) | 5.53 (1.96) | 5.41 (1.92) | afford | 1064 | 6.27 (2.02) | 5.31 (2.11) | 5.76 (2.42) |
| acceptance | 625 | 7.98 (1.42) | 5.40 (2.7) | 6.64 (1.91) | afraid | 8 | 2.00 (1.28) | 6.67 (2.54) | 3.98 (2.63) |
| access | 1044 | 6.14 (1.62) | 5.07 (1.68) | 6.25 (1.53) | aggravated | 1065 | 2.66 (1.45) | 5.79 (2.16) | 4.28 (2.02) |
| accident | 2 | 2.05 (1.19) | 6.26 (2.87) | 3.76 (2.22) | aggravation | 1066 | 2.10 (1.06) | 6.10 (2.47) | 3.83 (1.91) |
| accord | 1045 | 5.53 (1.2) | 4.24 (1.72) | 5.31 (1.2) | aggressive | 9 | 5.10 (1.68) | 5.83 (2.33) | 5.59 (2.4) |
| accost | 1046 | 4.28 (1.41) | 5.24 (1.92) | 4.38 (1.61) | agility | 22 | 6.46 (1.57) | 4.85 (1.8) | 5.87 (1.52) |
| accuse | 1047 | 2.54 (1.37) | 6.57 (1.93) | 4.07 (2.28) | agony | 10 | 2.43 (2.17) | 6.06 (2.67) | 4.02 (2.49) |
| ace | 626 | 6.88 (1.93) | 5.50 (2.66) | 6.39 (2.31) | agree | 1067 | 7.00 (1.08) | 4.59 (1.56) | 6.28 (1.28) |
| ache | 627 | 2.46 (1.52) | 5.00 (2.45) | 3.54 (1.73) | agreement | 631 | 7.08 (1.59) | 5.02 (2.24) | 6.22 (1.85) |
| achievement | 3 | 7.89 (1.38) | 5.53 (2.81) | 6.56 (2.35) | aid | 1068 | 6.93 (1.16) | 5.41 (1.78) | 5.55 (1.99) |
| acre | 1048 | 5.66 (1.26) | 4.90 (1.88) | 6.04 (1.67) | ail | 1069 | 3.70 (1.73) | 4.59 (2.01) | 4.21 (2.08) |
| action | 1049 | 6.63 (1.45) | 6.53 (1.87) | 5.63 (2.06) | air | 632 | 6.34 (1.56) | 4.12 (2.3) | 5.10 (1.56) |
| activate | 4 | 5.46 (0.98) | 4.86 (2.56) | 5.43 (1.84) | airplane | 1070 | 6.43 (1.94) | 6.77 (1.59) | 3.73 (2.24) |
| actor | 1050 | 7.13 (1.31) | 6.07 (1.89) | 4.97 (1.73) | airport | 1071 | 5.90 (2.09) | 5.97 (2.01) | 4.41 (1.82) |
| ad | 1051 | 5.00 (1.22) | 4.29 (1.7) | 5.00 (1.12) | alarm | 1072 | 2.86 (1.65) | 7.36 (2.3) | 3.75 (1.96) |
| adapt | 1052 | 5.72 (1.14) | 4.52 (1.86) | 5.43 (1.41) | album | 1073 | 6.21 (1.73) | 5.18 (2.21) | 5.04 (1.6) |
| addict | 581 | 2.48 (2.08) | 5.66 (2.26) | 3.72 (2.54) | alcohol | 1074 | 5.97 (2.15) | 5.94 (1.82) | 5.50 (1.78) |
| addicted | 628 | 2.51 (1.42) | 4.81 (2.46) | 3.46 (2.23) | alcoholic | 582 | 2.84 (2.34) | 5.69 (2.36) | 4.45 (2.56) |
| adhere | 1053 | 5.03 (1.16) | 4.07 (1.74) | 4.33 (1.77) | alcove | 1075 | 5.32 (0.98) | 4.19 (1.64) | 4.93 (1.47) |
| adjust | 1054 | 5.25 (1.55) | 5.39 (1.69) | 4.86 (1.46) | alert | 11 | 6.20 (1.76) | 6.85 (2.53) | 5.96 (2.24) |
| admire | 1055 | 7.63 (0.93) | 6.20 (1.79) | 6.27 (1.6) | alien | 633 | 5.60 (1.82) | 5.45 (2.15) | 4.64 (2.07) |
| admired | 5 | 7.74 (1.84) | 6.11 (2.36) | 7.53 (1.94) | alimony | 634 | 3.95 (2) | 4.30 (2.29) | 4.63 (2.3) |
| admit | 1056 | 4.93 (1.53) | 4.97 (1.86) | 4.45 (1.96) | alive | 635 | 7.25 (2.22) | 5.50 (2.74) | 6.39 (2.15) |
| adopt | 1057 | 6.52 (1.29) | 4.71 (1.99) | 5.88 (1.39) | allege | 1076 | 4.37 (1.4) | 3.87 (1.78) | 4.77 (1.04) |
| adorable | 6 | 7.81 (1.24) | 5.12 (2.71) | 5.74 (2.48) | allergy | 636 | 3.07 (1.64) | 4.64 (2.34) | 3.21 (1.77) |
| adore | 1058 | 7.22 (2.01) | 5.74 (2.54) | 5.19 (1.78) | alley | 637 | 4.48 (1.97) | 4.91 (2.42) | 4.00 (1.7) |
| adorn | 1059 | 6.11 (1.12) | 4.56 (1.89) | 5.22 (1.28) | alone | 12 | 2.41 (1.77) | 4.83 (2.66) | 3.70 (2.42) |
| adult | 546 | 6.49 (1.5) | 4.76 (1.95) | 5.75 (2.21) | aloof | 13 | 4.90 (1.92) | 4.28 (2.1) | 4.69 (1.92) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|--------------|----------|------------------|------------------|---------------------|
| alter | 1077 | 5.76 (1.5) | 4.93 (2.31) | 5.96 (1.29) |
| amaze | 1078 | 7.57 (1.41) | 6.90 (1.94) | 5.57 (1.63) |
| ambition | 14 | 7.04 (1.98) | 5.61 (2.92) | 6.93 (2.07) |
| ambitious | 1079 | 7.62 (1.35) | 6.57 (2.28) | 6.93 (1.92) |
| ambulance | 15 | 2.47 (1.5) | 7.33 (1.96) | 3.22 (2.29) |
| ambush | 1080 | 4.03 (1.8) | 6.23 (1.52) | 4.00 (2) |
| amuse | 1081 | 7.57 (1.38) | 5.97 (2.28) | 5.93 (1.28) |
| amusement | 1082 | 7.96 (1.22) | 6.22 (2.24) | 5.74 (1.83) |
| anarchy | 1083 | 3.58 (1.71) | 5.48 (2.17) | 3.65 (1.96) |
| ancestor | 1084 | 5.73 (1.74) | 4.27 (2.03) | 4.83 (2.05) |
| angel | 16 | 7.53 (1.58) | 4.83 (2.63) | 4.97 (2.34) |
| anger | 17 | 2.34 (1.32) | 7.63 (1.91) | 5.50 (2.82) |
| angry | 18 | 2.85 (1.7) | 7.17 (2.07) | 5.55 (2.74) |
| anguished | 19 | 2.12 (1.56) | 5.33 (2.69) | 3.45 (2.37) |
| animal | 1085 | 6.48 (1.55) | 5.55 (1.53) | 6.00 (1.6) |
| ankle | 638 | 5.27 (1.54) | 4.16 (2.03) | 4.77 (1.74) |
| annoy | 1086 | 2.96 (1.65) | 5.52 (2.49) | 4.44 (2) |
| annoy | 20 | 2.74 (1.81) | 6.49 (2.17) | 5.09 (2.04) |
| annoyance | 1087 | 2.97 (1.61) | 5.18 (2.44) | 4.21 (1.87) |
| answer | 639 | 6.63 (1.68) | 5.41 (2.43) | 5.85 (1.88) |
| antique | 1088 | 5.39 (1.91) | 4.06 (2.26) | 5.19 (1.99) |
| anus | 1089 | 4.52 (2.06) | 4.28 (2.32) | 5.48 (1.36) |
| anxiety | 1090 | 2.77 (1.59) | 6.72 (1.94) | 2.72 (1.83) |
| anxious | 21 | 4.81 (1.98) | 6.92 (1.81) | 5.33 (1.82) |
| apartment | 1091 | 6.80 (1.35) | 4.75 (1.92) | 6.67 (1.88) |
| apathy | 1092 | 4.30 (1.95) | 4.00 (2.1) | 4.33 (1.65) |
| apology | 1093 | 5.00 (2.22) | 5.18 (1.66) | 5.31 (2.19) |
| appall | 1094 | 3.61 (2.18) | 6.50 (2.67) | 4.61 (2.28) |
| applause | 640 | 7.50 (1.5) | 5.80 (2.79) | 6.48 (2.11) |
| apple | 1095 | 6.41 (1.5) | 4.17 (2.11) | 5.86 (1.64) |
| appliance | 641 | 5.10 (1.21) | 4.05 (2.06) | 5.05 (1.34) |
| application | 1096 | 4.69 (1.65) | 5.62 (2.27) | 3.90 (1.63) |
| appreciative | 1097 | 7.43 (1.36) | 5.73 (2.23) | 5.90 (1.75) |
| apprehension | 1098 | 3.03 (1.61) | 5.68 (2.26) | 3.11 (1.4) |
| arch | 1099 | 5.37 (1.08) | 4.37 (2.29) | 5.07 (2.02) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| area | 1100 | 5.45 (1.77) | 3.80 (2.19) | 5.23 (1.59) |
| arena | 1101 | 6.40 (1.61) | 6.43 (2.05) | 5.10 (2.02) |
| argue | 1102 | 2.83 (1.23) | 6.07 (2.12) | 4.70 (2.25) |
| arm | 642 | 5.34 (1.82) | 3.59 (2.4) | 5.07 (1.5) |
| army | 23 | 4.72 (1.75) | 5.03 (2.03) | 5.03 (2.45) |
| aroma | 1103 | 7.17 (1.81) | 5.19 (2.62) | 5.50 (1.75) |
| arouse | 1104 | 7.48 (1.33) | 6.97 (2.16) | 6.10 (2.14) |
| aroused | 24 | 7.97 (1) | 6.63 (2.7) | 6.14 (1.97) |
| arrogant | 25 | 3.69 (2.4) | 5.65 (2.23) | 5.14 (2.71) |
| arrow | 1105 | 5.17 (1.66) | 5.37 (1.88) | 4.87 (2.01) |
| arson | 1106 | 2.60 (2.12) | 6.58 (2.7) | 3.46 (2.48) |
| art | 643 | 6.68 (2.1) | 4.86 (2.88) | 5.30 (2.33) |
| artist | 1107 | 6.59 (1.72) | 4.94 (2.44) | 5.91 (1.35) |
| ash | 1108 | 4.04 (1.76) | 4.41 (2.06) | 4.89 (1.48) |
| asphalt | 1109 | 5.12 (1.07) | 3.77 (2.1) | 5.19 (1.72) |
| aspire | 1110 | 7.21 (1.76) | 5.83 (2.25) | 7.00 (1.44) |
| ass | 1111 | 6.09 (2.02) | 6.00 (2.17) | 5.06 (1.98) |
| assassin | 26 | 3.09 (2.09) | 6.28 (2.53) | 4.33 (2.68) |
| assault | 27 | 2.03 (1.55) | 7.51 (2.28) | 3.94 (3.1) |
| assume | 1112 | 4.69 (1.51) | 4.97 (1.38) | 4.24 (1.88) |
| assure | 1113 | 7.04 (1.32) | 4.52 (2.31) | 6.22 (2.19) |
| astonished | 28 | 6.56 (1.61) | 6.58 (2.22) | 5.16 (1.79) |
| astronaut | 501 | 6.66 (1.6) | 5.28 (2.11) | 5.20 (1.95) |
| athlete | 1114 | 7.24 (1.74) | 6.50 (2.17) | 6.67 (1.55) |
| athletics | 644 | 6.61 (2.08) | 6.10 (2.29) | 6.12 (2.12) |
| atlas | 1115 | 5.53 (1.38) | 4.53 (1.96) | 5.37 (1.25) |
| atom | 1116 | 4.73 (1.62) | 4.00 (1.84) | 4.33 (1.69) |
| attack | 1117 | 2.70 (2.07) | 7.03 (2.24) | 3.30 (2.52) |
| attain | 1118 | 6.70 (1.49) | 5.53 (2) | 6.03 (1.45) |
| attend | 1119 | 6.30 (1.73) | 4.74 (2.1) | 5.35 (1.67) |
| aunt | 1120 | 6.39 (2.04) | 4.96 (1.69) | 5.39 (1.37) |
| auto | 1121 | 6.29 (1.67) | 4.89 (2.28) | 5.19 (1.75) |
| autumn | 29 | 6.30 (2.14) | 4.51 (2.5) | 5.15 (1.85) |
| avalanche | 645 | 3.29 (1.95) | 5.54 (2.37) | 3.61 (2) |
| avenge | 1122 | 4.61 (1.26) | 5.89 (1.76) | 6.33 (1.41) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| avenue | 646 | 5.50 (1.37) | 4.12 (2.01) | 5.40 (1.53) |
| avert | 1123 | 5.17 (1.44) | 4.73 (2.23) | 4.67 (1.77) |
| avoid | 1124 | 3.62 (1.45) | 5.04 (2.28) | 4.26 (1.95) |
| await | 1125 | 4.64 (1.87) | 4.54 (2.78) | 3.75 (2.25) |
| awaken | 1126 | 5.34 (1.88) | 5.00 (2.21) | 5.09 (1.77) |
| award | 1127 | 8.44 (1.05) | 7.22 (2.03) | 7.26 (2.21) |
| awe | 1128 | 6.48 (1.62) | 5.50 (2.05) | 4.43 (1.71) |
| awed | 30 | 6.70 (1.38) | 5.74 (2.31) | 5.30 (2.03) |
| awful | 1129 | 2.66 (1.78) | 5.72 (2.15) | 3.97 (1.99) |
| awkward | 1130 | 3.20 (1.79) | 5.70 (1.82) | 3.03 (1.59) |
| awning | 1131 | 5.10 (1.47) | 3.97 (1.87) | 5.17 (1.39) |
| baby | 31 | 8.22 (1.2) | 5.53 (2.8) | 5.00 (2.8) |
| backyard | 1132 | 6.87 (1.66) | 4.87 (2.5) | 5.77 (1.92) |
| bacon | 1133 | 6.70 (2.46) | 5.63 (2.5) | 5.81 (2.39) |
| bad | 1134 | 2.56 (1.36) | 5.52 (1.87) | 3.84 (1.82) |
| badge | 1135 | 5.37 (1.71) | 4.60 (1.98) | 4.90 (1.69) |
| baffle | 1136 | 4.04 (1.49) | 5.48 (1.85) | 3.67 (1.55) |
| bake | 647 | 6.17 (1.71) | 5.10 (2.3) | 5.49 (1.88) |
| balcony | 1137 | 5.77 (1.72) | 4.60 (2.3) | 4.63 (1.65) |
| bald | 1138 | 3.78 (1.83) | 4.26 (2.44) | 4.44 (2.04) |
| ballet | 1139 | 5.61 (2.08) | 4.00 (2.08) | 5.84 (1.55) |
| balloons | 1140 | 6.97 (1.61) | 4.90 (1.75) | 5.53 (1.28) |
| ban | 1141 | 3.48 (1.53) | 5.62 (2.06) | 3.90 (2.4) |
| banana | 1142 | 6.61 (1.93) | 4.93 (2.34) | 5.61 (1.64) |
| band | 1143 | 6.55 (1.62) | 5.66 (1.91) | 5.34 (1.61) |
| bandage | 648 | 4.54 (1.75) | 3.90 (2.07) | 4.52 (1.89) |
| banish | 1144 | 2.46 (1.4) | 5.68 (2.84) | 3.21 (2.25) |
| bankrupt | 32 | 2.00 (1.31) | 6.21 (2.79) | 3.27 (2.39) |
| banner | 649 | 5.40 (0.83) | 3.83 (1.95) | 4.80 (1.57) |
| bar | 650 | 6.42 (2.05) | 5.00 (2.83) | 5.47 (1.94) |
| bargain | 1145 | 7.28 (1.3) | 5.94 (2) | 6.47 (1.22) |
| bark | 1146 | 4.68 (2.16) | 6.07 (2.22) | 4.85 (2.14) |
| barn | 1147 | 5.48 (2.01) | 4.27 (2.27) | 5.73 (2.2) |
| barrel | 651 | 5.05 (1.46) | 3.36 (2.28) | 4.89 (1.57) |
| basement | 1148 | 4.67 (1.58) | 4.73 (2.26) | 4.60 (1.94) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| basin | 1149 | 4.93 (0.87) | 3.83 (1.97) | 4.47 (1.2) |
| basis | 1150 | 4.81 (0.65) | 3.83 (1.68) | 5.37 (1.33) |
| basket | 547 | 5.45 (1.15) | 3.63 (2.02) | 5.76 (1.45) |
| basketball | 1151 | 6.14 (2.04) | 5.94 (2.3) | 5.19 (1.94) |
| bastard | 33 | 3.36 (2.16) | 6.07 (2.15) | 4.17 (2.4) |
| batch | 1152 | 6.18 (1.36) | 4.63 (1.8) | 5.67 (1.41) |
| bath | 502 | 7.33 (1.45) | 4.16 (2.31) | 6.41 (1.87) |
| bathe | 1153 | 7.37 (1.52) | 4.63 (2.48) | 5.93 (1.96) |
| bathroom | 548 | 5.55 (1.36) | 3.88 (1.72) | 5.65 (1.59) |
| bathtub | 652 | 6.69 (1.57) | 4.36 (2.59) | 5.76 (1.76) |
| baton | 1154 | 5.16 (1.53) | 4.38 (1.91) | 5.22 (1.45) |
| battleship | 1155 | 4.93 (2.62) | 5.85 (2.64) | 3.89 (2.21) |
| bawl | 1156 | 3.41 (1.48) | 5.00 (2.06) | 3.97 (1.36) |
| beach | 34 | 8.03 (1.59) | 5.53 (3.07) | 5.44 (2.52) |
| beads | 1157 | 5.54 (1.32) | 4.11 (2.44) | 4.61 (1.77) |
| bean | 1158 | 5.35 (1.76) | 3.97 (2.27) | 5.80 (1.99) |
| bear | 1159 | 4.78 (2.03) | 6.52 (2.44) | 3.78 (2.24) |
| beard | 1160 | 5.82 (2.06) | 4.30 (2.33) | 5.89 (1.95) |
| beast | 653 | 4.23 (2.41) | 5.57 (2.61) | 4.89 (2.29) |
| beautiful | 654 | 7.60 (1.64) | 6.17 (2.34) | 6.29 (1.81) |
| beauty | 35 | 7.82 (1.16) | 4.95 (2.57) | 5.53 (2.1) |
| bed | 549 | 7.51 (1.38) | 3.61 (2.56) | 6.88 (1.78) |
| bedspread | 1161 | 5.60 (1.94) | 4.21 (2.18) | 5.90 (1.68) |
| beer | 1162 | 5.96 (2.32) | 5.36 (2.44) | 5.18 (2.36) |
| bees | 583 | 3.20 (2.07) | 6.51 (2.14) | 4.16 (2.11) |
| beet | 1163 | 4.33 (1.52) | 4.03 (2.28) | 5.03 (1.32) |
| beg | 1164 | 2.75 (1.86) | 5.00 (2.25) | 3.30 (2) |
| beggar | 36 | 3.22 (2.02) | 4.91 (2.45) | 4.09 (2.38) |
| beginning | 1165 | 6.20 (2.09) | 4.87 (2.05) | 6.10 (2.09) |
| behave | 1166 | 5.50 (2.05) | 3.93 (2.02) | 4.56 (2.15) |
| belief | 1167 | 6.61 (1.79) | 5.70 (2.48) | 5.85 (2.07) |
| bell | 1168 | 5.38 (1.4) | 4.45 (1.78) | 5.10 (1.23) |
| belly | 1169 | 4.96 (1.71) | 4.33 (2.08) | 4.96 (1.79) |
| belong | 1170 | 6.46 (1.71) | 5.64 (2.23) | 5.75 (1.6) |
| bench | 655 | 4.61 (1.4) | 3.59 (2.07) | 4.68 (1.38) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| benefit | 1171 | 6.59 (1.78) | 5.14 (2.23) | 6.03 (2.13) |
| berate | 1172 | 3.53 (2.01) | 5.47 (2.37) | 3.83 (1.93) |
| bereavement | 656 | 4.57 (1.7) | 4.20 (2.15) | 4.33 (1.73) |
| betray | 37 | 1.68 (1.02) | 7.24 (2.06) | 4.92 (2.97) |
| beverage | 657 | 6.83 (1.48) | 5.21 (2.46) | 5.63 (2.17) |
| beware | 1173 | 3.52 (1.6) | 6.38 (1.93) | 3.69 (2.19) |
| bib | 1174 | 5.57 (1.91) | 4.37 (2.09) | 4.77 (1.68) |
| bible | 1175 | 5.97 (2.28) | 4.57 (2.75) | 4.47 (2.16) |
| bicker | 1176 | 3.21 (1.37) | 5.36 (2.25) | 4.61 (1.69) |
| bicyclist | 1177 | 5.40 (1.61) | 4.93 (1.96) | 5.13 (1.33) |
| bikini | 1178 | 6.47 (2.32) | 6.27 (2.05) | 5.20 (2.19) |
| binge | 1179 | 3.25 (1.68) | 4.94 (2.2) | 4.28 (2.52) |
| binoculars | 1180 | 6.18 (1.54) | 4.44 (1.87) | 6.19 (1.9) |
| bird | 38 | 7.27 (1.36) | 3.17 (2.23) | 4.42 (2.26) |
| birth | 1181 | 7.64 (1.42) | 6.82 (2.36) | 4.96 (2.1) |
| birthday | 39 | 7.84 (1.92) | 6.68 (2.11) | 5.89 (2.61) |
| bitch | 1182 | 3.00 (1.98) | 6.36 (2.72) | 4.36 (2.34) |
| black | 543 | 5.39 (1.8) | 4.61 (2.24) | 5.14 (1.79) |
| blackmail | 40 | 2.95 (1.95) | 6.03 (2.7) | 3.54 (2.67) |
| blade | 1183 | 4.30 (2.05) | 6.07 (2.08) | 4.87 (1.78) |
| blame | 1184 | 2.77 (1.41) | 4.93 (2.02) | 3.47 (1.59) |
| bland | 658 | 4.10 (1.08) | 3.29 (1.89) | 4.88 (1.27) |
| blanket | 1185 | 6.94 (1.34) | 3.41 (2.15) | 5.75 (1.7) |
| blase | 41 | 4.89 (1.16) | 3.94 (1.76) | 4.57 (1.44) |
| blasphemy | 659 | 3.75 (2.26) | 4.93 (2.34) | 4.75 (1.59) |
| bleed | 1186 | 2.97 (1.78) | 5.64 (2.67) | 3.93 (2.14) |
| bless | 42 | 7.19 (1.69) | 4.05 (2.59) | 5.52 (2.22) |
| blight | 1187 | 4.03 (1.65) | 4.66 (2.15) | 4.40 (1.52) |
| blind | 43 | 3.05 (1.99) | 4.39 (2.36) | 3.28 (1.91) |
| bliss | 660 | 6.95 (2.24) | 4.41 (2.95) | 6.12 (2.15) |
| blisters | 661 | 2.88 (1.75) | 4.10 (2.34) | 3.98 (1.9) |
| blob | 1188 | 5.23 (2.12) | 4.81 (2.46) | 5.70 (1.86) |
| blond | 662 | 6.43 (2.04) | 5.07 (2.7) | 5.74 (1.67) |
| blonde | 1189 | 6.18 (2.18) | 4.86 (2.63) | 5.14 (2.37) |
| blood | 1190 | 3.64 (1.57) | 6.00 (2.72) | 4.54 (2.44) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| bloody | 584 | 2.90 (1.98) | 6.41 (2) | 3.96 (1.89) |
| bloom | 1191 | 7.21 (1.42) | 4.96 (2.03) | 5.36 (1.77) |
| blossom | 44 | 7.26 (1.18) | 5.03 (2.65) | 5.53 (2.21) |
| blouse | 1192 | 5.75 (1.71) | 4.43 (2.33) | 4.71 (2.31) |
| blowdryer | 1193 | 5.31 (1.33) | 3.84 (1.9) | 5.41 (1.46) |
| blubber | 663 | 3.52 (1.99) | 4.57 (2.38) | 3.86 (1.97) |
| blue | 544 | 6.76 (1.78) | 4.31 (2.2) | 5.63 (1.64) |
| blues | 1194 | 4.11 (2.18) | 3.46 (2.01) | 4.75 (2.41) |
| blurt | 1195 | 4.48 (1.09) | 5.36 (1.93) | 4.75 (1.62) |
| board | 664 | 4.82 (1.23) | 3.36 (2.12) | 4.98 (1.77) |
| boat | 1196 | 7.79 (1.37) | 5.31 (2.9) | 5.66 (2.16) |
| body | 665 | 5.55 (2.37) | 5.52 (2.63) | 5.34 (2.12) |
| bold | 45 | 6.80 (1.61) | 5.60 (2.21) | 6.67 (1.81) |
| bolt | 1197 | 5.42 (1.53) | 5.73 (1.99) | 5.08 (1.79) |
| bomb | 46 | 2.10 (1.19) | 7.15 (2.4) | 4.54 (2.88) |
| bone | 1198 | 5.00 (1.24) | 4.62 (2.62) | 4.88 (1.48) |
| bonus | 1199 | 8.00 (1.8) | 6.83 (2.65) | 6.83 (2.05) |
| book | 47 | 5.72 (1.54) | 4.17 (2.49) | 5.30 (2.05) |
| boom | 1200 | 5.10 (1.83) | 6.67 (1.83) | 4.60 (2.25) |
| boost | 1201 | 6.33 (1.94) | 5.52 (2.67) | 5.14 (1.68) |
| booth | 1202 | 5.20 (0.71) | 4.20 (1.99) | 5.23 (1.59) |
| boots | 1203 | 5.97 (1.87) | 4.67 (2.04) | 5.77 (1.76) |
| bored | 48 | 2.95 (1.35) | 2.83 (2.31) | 4.11 (1.7) |
| boring | 1204 | 3.38 (2.54) | 2.29 (2.07) | 4.18 (1.79) |
| bothered | 1205 | 3.00 (1.46) | 6.17 (2.1) | 4.17 (1.93) |
| bottle | 666 | 6.15 (1.49) | 4.79 (2.44) | 4.78 (1.65) |
| bounty | 1206 | 5.08 (1.35) | 5.64 (1.85) | 4.96 (1.49) |
| bouquet | 667 | 7.02 (1.84) | 5.46 (2.47) | 6.15 (1.8) |
| bowl | 49 | 5.33 (1.33) | 3.47 (2.12) | 4.69 (1.67) |
| boxer | 585 | 5.51 (1.8) | 5.12 (2.26) | 5.10 (1.64) |
| boy | 50 | 6.32 (1.6) | 4.58 (2.37) | 5.34 (2.2) |
| boyfriend | 1207 | 5.74 (2.58) | 5.73 (2.5) | 4.67 (2.29) |
| bracelet | 1208 | 6.17 (1.49) | 5.10 (1.9) | 5.47 (1.11) |
| braces | 1209 | 3.17 (1.71) | 5.24 (1.88) | 3.90 (2.23) |
| brain | 1210 | 6.70 (1.82) | 5.53 (2.08) | 5.93 (2.08) |

| Description | Word No. | Valence Mean(SD) | | Arousal Mean(SD) | | Dominance Mean (SD) | |
|-------------|----------|------------------|--------|------------------|--------|---------------------|--------|
| brave | 668 | 7.15 | (1.64) | 6.15 | (2.45) | 7.22 | (1.86) |
| break | 1211 | 4.59 | (2.09) | 5.23 | (2.06) | 5.26 | (1.73) |
| breast | 51 | 6.50 | (1.78) | 5.37 | (2.39) | 5.39 | (2.27) |
| breath | 1212 | 6.07 | (1.46) | 4.77 | (2.39) | 6.00 | (1.68) |
| breathless | 1213 | 4.54 | (2.1) | 5.85 | (1.87) | 4.31 | (1.76) |
| breeze | 669 | 6.85 | (1.71) | 4.37 | (2.32) | 5.54 | (1.67) |
| bribe | 1214 | 4.14 | (1.88) | 6.00 | (1.62) | 4.48 | (1.95) |
| brick | 1215 | 4.79 | (1.97) | 4.46 | (2.13) | 5.14 | (1.63) |
| bride | 670 | 7.34 | (1.71) | 5.55 | (2.74) | 5.74 | (2.36) |
| bridge | 1216 | 5.26 | (1.32) | 5.03 | (1.82) | 4.68 | (1.74) |
| bright | 671 | 7.50 | (1.55) | 5.40 | (2.33) | 6.34 | (1.82) |
| broken | 672 | 3.05 | (1.92) | 5.43 | (2.42) | 4.14 | (1.62) |
| brood | 1217 | 4.57 | (1.98) | 4.63 | (1.88) | 5.21 | (1.68) |
| broom | 1218 | 4.83 | (0.79) | 3.23 | (1.98) | 5.23 | (1.59) |
| broth | 1219 | 5.23 | (1.65) | 3.93 | (2) | 5.33 | (1.56) |
| brother | 52 | 7.11 | (2.17) | 4.71 | (2.68) | 5.12 | (2.31) |
| brow | 1220 | 5.30 | (0.79) | 3.57 | (1.96) | 5.13 | (1.59) |
| brownie | 1221 | 7.33 | (2.14) | 6.10 | (2.16) | 5.97 | (1.97) |
| bruise | 1222 | 3.38 | (1.45) | 5.93 | (1.62) | 4.52 | (1.99) |
| brutal | 53 | 2.80 | (1.9) | 6.60 | (2.36) | 4.59 | (2.7) |
| bucket | 1223 | 5.10 | (1.29) | 4.17 | (1.89) | 5.34 | (1.45) |
| buffalo | 1224 | 6.04 | (1.56) | 4.59 | (2.47) | 4.30 | (1.73) |
| bug | 1225 | 3.73 | (2) | 5.57 | (2.27) | 4.50 | (1.48) |
| bugle | 1226 | 5.27 | (1.48) | 4.73 | (1.95) | 5.03 | (0.85) |
| building | 550 | 5.29 | (1.15) | 3.92 | (1.94) | 5.25 | (1.57) |
| bulb | 1227 | 5.17 | (0.91) | 4.24 | (1.72) | 5.10 | (1.05) |
| bulge | 1228 | 3.46 | (1.69) | 4.82 | (2.44) | 4.32 | (1.76) |
| bullet | 673 | 3.29 | (2.06) | 5.33 | (2.48) | 3.90 | (2.61) |
| bumble | 1229 | 4.83 | (1.73) | 5.03 | (1.92) | 4.76 | (1.57) |
| bunny | 54 | 7.24 | (1.32) | 4.06 | (2.61) | 4.97 | (2.18) |
| burdened | 55 | 2.50 | (1.32) | 5.63 | (2.07) | 5.03 | (2.35) |
| burglar | 1230 | 2.52 | (1.45) | 6.62 | (2.06) | 3.41 | (2.16) |
| burial | 56 | 2.05 | (1.41) | 5.08 | (2.4) | 3.55 | (1.95) |
| burn | 586 | 2.73 | (1.72) | 6.22 | (1.91) | 4.22 | (1.83) |
| bury | 1231 | 3.68 | (1.4) | 5.68 | (1.4) | 4.16 | (1.32) |

| Description | Word No. | Valence Mean(SD) | | Arousal Mean(SD) | | Dominance Mean (SD) | |
|-------------|----------|------------------|--------|------------------|--------|---------------------|--------|
| bus | 541 | 4.51 | (1.57) | 3.55 | (1.8) | 4.84 | (1.75) |
| bustle | 1232 | 5.43 | (1.57) | 5.80 | (2.02) | 4.93 | (1.62) |
| busy | 1233 | 4.19 | (1.6) | 4.58 | (1.96) | 4.69 | (1.49) |
| busybody | 674 | 5.17 | (2.02) | 4.84 | (2.41) | 5.45 | (1.97) |
| butler | 1234 | 5.93 | (1.82) | 4.70 | (2.4) | 5.48 | (2.36) |
| butt | 1235 | 6.47 | (1.61) | 5.70 | (2.15) | 5.97 | (1.61) |
| butter | 57 | 5.33 | (1.2) | 3.17 | (1.84) | 4.67 | (1.69) |
| butterfly | 58 | 7.17 | (1.2) | 3.47 | (2.39) | 4.65 | (2.27) |
| button | 1236 | 5.21 | (1.13) | 3.82 | (2.34) | 5.68 | (2.18) |
| cab | 1237 | 4.53 | (1.07) | 3.97 | (1.88) | 4.27 | (1.93) |
| cabinet | 675 | 5.05 | (0.31) | 3.43 | (1.85) | 4.73 | (1.66) |
| cake | 59 | 7.26 | (1.27) | 5.00 | (2.37) | 5.16 | (2.05) |
| calender | 676 | 5.42 | (1.69) | 3.84 | (2.34) | 4.95 | (1.41) |
| calf | 1238 | 5.39 | (1.64) | 4.11 | (2.18) | 6.05 | (1.45) |
| calm | 1239 | 6.73 | (1.68) | 3.60 | (2.51) | 6.37 | (2.06) |
| camel | 1240 | 5.62 | (1.6) | 4.34 | (1.88) | 5.09 | (1.35) |
| campus | 1241 | 6.07 | (1.46) | 4.79 | (1.68) | 5.03 | (1.52) |
| cancel | 1242 | 3.46 | (1.36) | 4.31 | (2.04) | 4.08 | (2) |
| cancer | 60 | 1.50 | (0.85) | 6.42 | (2.83) | 3.42 | (2.99) |
| candlestick | 1243 | 5.43 | (1.48) | 4.27 | (2.21) | 5.00 | (1.34) |
| candy | 61 | 6.54 | (2.09) | 4.58 | (2.4) | 5.33 | (1.91) |
| cane | 677 | 4.00 | (1.8) | 4.20 | (1.93) | 4.27 | (1.95) |
| cannon | 678 | 4.90 | (2.2) | 4.71 | (2.84) | 5.17 | (2.29) |
| canoe | 1244 | 6.29 | (1.67) | 4.79 | (2.64) | 5.86 | (1.56) |
| canyon | 1245 | 5.76 | (1.55) | 5.29 | (2.48) | 3.79 | (1.91) |
| capability | 1246 | 7.00 | (1.65) | 5.43 | (2.32) | 6.36 | (1.91) |
| capable | 62 | 7.16 | (1.39) | 5.08 | (2.07) | 6.47 | (1.94) |
| cape | 1247 | 6.33 | (1.42) | 5.03 | (1.94) | 6.07 | (1.28) |
| car | 551 | 7.73 | (1.63) | 6.24 | (2.04) | 6.98 | (2.06) |
| carcass | 679 | 3.34 | (1.92) | 4.83 | (2.07) | 4.90 | (1.79) |
| card | 1248 | 5.61 | (1.23) | 4.43 | (2.15) | 5.57 | (1.64) |
| care | 1249 | 7.53 | (1.36) | 6.03 | (1.87) | 6.37 | (1.73) |
| carefree | 63 | 7.54 | (1.38) | 4.17 | (2.84) | 5.78 | (2.5) |
| caress | 64 | 7.84 | (1.16) | 5.14 | (3) | 5.83 | (2.13) |
| caring | 1250 | 6.84 | (1.92) | 4.38 | (2.23) | 5.78 | (1.79) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| carnival | 1251 | 6.77 (2.01) | 6.20 (2.47) | 5.60 (1.73) |
| carpet | 1252 | 5.17 (1.17) | 3.66 (1.72) | 5.14 (1.09) |
| carrot | 1253 | 5.43 (1.74) | 3.90 (1.84) | 5.89 (1.79) |
| cartoon | 1254 | 6.94 (1.36) | 5.52 (2.06) | 5.77 (1.8) |
| carve | 1255 | 5.08 (1.12) | 4.72 (1.65) | 4.88 (1.3) |
| carwash | 1256 | 6.00 (1.74) | 4.67 (2.11) | 5.43 (1.74) |
| cash | 503 | 8.37 (1) | 7.37 (2.21) | 6.96 (2.39) |
| casino | 680 | 6.81 (1.66) | 6.51 (2.12) | 5.12 (2.15) |
| cast | 1257 | 4.46 (1.36) | 4.50 (1.86) | 5.08 (1.55) |
| castle | 1258 | 7.43 (1.55) | 6.13 (2.15) | 6.43 (1.99) |
| castrate | 1259 | 2.16 (1.99) | 5.75 (3.05) | 2.75 (2.09) |
| cat | 504 | 5.72 (2.43) | 4.38 (2.24) | 6.16 (2.05) |
| cattle | 1260 | 5.50 (1.74) | 4.20 (2.14) | 5.57 (1.79) |
| cave | 1261 | 4.78 (1.98) | 5.44 (1.85) | 4.44 (1.56) |
| cavern | 1262 | 5.62 (1.63) | 5.28 (2.23) | 5.28 (1.67) |
| cavity | 1263 | 2.59 (1.9) | 6.14 (2.62) | 3.50 (2.22) |
| cavort | 1264 | 5.10 (1.05) | 4.86 (1.94) | 4.97 (1.27) |
| cease | 1265 | 4.48 (1.15) | 4.25 (1.71) | 4.64 (1.57) |
| ceiling | 1266 | 5.45 (0.95) | 4.04 (2.22) | 5.18 (1.47) |
| cell | 587 | 3.82 (1.7) | 4.08 (2.19) | 4.12 (2.13) |
| cellar | 681 | 4.32 (1.68) | 4.39 (2.33) | 4.66 (1.61) |
| cemetery | 65 | 2.63 (1.4) | 4.82 (2.66) | 4.27 (2.14) |
| cereal | 1267 | 7.35 (1.51) | 5.08 (2.61) | 6.28 (2.15) |
| chair | 66 | 5.08 (0.98) | 3.15 (1.77) | 4.56 (1.6) |
| chalk | 1268 | 4.89 (1.69) | 3.48 (2.24) | 4.70 (1.59) |
| challenge | 1269 | 6.43 (1.57) | 6.43 (1.81) | 6.07 (2.52) |
| champ | 682 | 7.18 (1.97) | 6.00 (2.43) | 6.77 (2) |
| champagne | 1270 | 7.00 (1.77) | 5.93 (2.33) | 5.43 (2.06) |
| champion | 67 | 8.44 (0.9) | 5.85 (3.15) | 6.50 (2.85) |
| chance | 683 | 6.02 (1.77) | 5.38 (2.58) | 4.64 (1.93) |
| change | 1271 | 5.24 (1.98) | 5.25 (2.38) | 4.79 (1.99) |
| chaos | 684 | 4.17 (2.36) | 6.67 (2.06) | 3.86 (1.95) |
| character | 1272 | 5.87 (1.68) | 5.17 (1.49) | 5.77 (1.65) |
| charm | 68 | 6.77 (1.58) | 5.16 (2.25) | 5.57 (2.25) |
| chase | 1273 | 5.07 (2.03) | 6.50 (1.95) | 4.64 (1.97) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|--------------|----------|------------------|------------------|---------------------|
| checkerboard | 1274 | 5.80 (1.47) | 4.21 (1.95) | 5.07 (1.94) |
| cheer | 69 | 8.10 (1.17) | 6.12 (2.45) | 6.00 (2.06) |
| cheerful | 1275 | 8.10 (1.35) | 6.36 (2.41) | 6.79 (1.71) |
| cheerleader | 1276 | 6.48 (2.13) | 5.67 (2.69) | 5.81 (1.92) |
| cheese | 1277 | 6.33 (1.9) | 5.20 (2.01) | 4.97 (1.85) |
| cheeseburger | 1278 | 7.61 (1.83) | 6.00 (2.26) | 6.46 (1.97) |
| chef | 1279 | 7.26 (1.56) | 5.67 (2.56) | 6.33 (1.88) |
| chess | 1280 | 5.48 (1.24) | 4.07 (2.1) | 5.00 (1.6) |
| chest | 1281 | 6.26 (1.56) | 5.44 (2.39) | 5.44 (1.95) |
| chicken | 1282 | 6.87 (1.66) | 5.10 (2.02) | 5.83 (1.44) |
| child | 70 | 7.08 (1.98) | 5.55 (2.29) | 5.10 (2.3) |
| chimney | 1283 | 5.72 (1.28) | 3.46 (1.84) | 5.12 (0.85) |
| chin | 685 | 5.29 (1.27) | 3.31 (1.98) | 5.26 (1.48) |
| chocolate | 505 | 6.88 (1.89) | 5.29 (2.55) | 5.18 (1.97) |
| choice | 1284 | 6.94 (2.08) | 5.23 (2.54) | 7.33 (2.31) |
| choir | 1285 | 6.41 (1.84) | 4.50 (2.41) | 5.50 (1.26) |
| choke | 1286 | 2.38 (1.43) | 6.34 (2.6) | 2.91 (1.96) |
| chore | 1287 | 2.74 (1.38) | 3.52 (2.47) | 3.26 (1.95) |
| christmas | 686 | 7.80 (1.55) | 6.27 (2.56) | 5.37 (2.09) |
| church | 71 | 6.28 (2.31) | 4.34 (2.45) | 5.00 (2.42) |
| cider | 1288 | 6.03 (1.78) | 4.10 (1.99) | 5.48 (1.84) |
| cigar | 1289 | 4.61 (2.94) | 4.14 (2.45) | 5.18 (2.31) |
| cigarette | 1290 | 2.46 (1.75) | 5.35 (2.26) | 4.54 (2.35) |
| cinema | 1291 | 7.86 (1.16) | 6.18 (2.23) | 6.14 (1.76) |
| circle | 687 | 5.67 (1.26) | 3.86 (2.13) | 5.03 (1.46) |
| circus | 72 | 7.30 (1.84) | 5.97 (2.59) | 5.39 (2.25) |
| city | 73 | 6.03 (1.37) | 5.24 (2.53) | 5.74 (2.08) |
| clan | 1292 | 4.93 (2.2) | 5.00 (1.92) | 5.04 (2.41) |
| clarinet | 1293 | 5.70 (1.88) | 4.47 (1.93) | 5.43 (1.52) |
| class | 1294 | 4.37 (2.11) | 3.93 (2.23) | 4.80 (2.17) |
| clause | 1295 | 4.93 (1.8) | 4.20 (1.47) | 4.40 (1.28) |
| claw | 1296 | 4.23 (1.45) | 4.81 (1.79) | 4.69 (1.12) |
| clay | 1297 | 5.33 (0.99) | 3.83 (1.86) | 5.50 (1.36) |
| clean | 1298 | 7.23 (1.76) | 4.80 (2.47) | 6.90 (1.84) |
| cleavage | 1299 | 6.33 (1.99) | 5.53 (2.45) | 6.03 (1.85) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| cleft | 1300 | 4.13 (1.72) | 3.93 (2.18) | 4.67 (1.65) |
| clench | 1301 | 4.43 (1.38) | 5.63 (1.77) | 4.37 (1.75) |
| cliff | 553 | 4.67 (2.08) | 6.25 (2.15) | 4.35 (2.11) |
| cliffdiver | 1302 | 5.80 (1.9) | 5.93 (2.43) | 5.20 (1.95) |
| climax | 1303 | 6.93 (2.16) | 7.18 (2.4) | 5.86 (2.21) |
| cling | 1304 | 4.52 (1.23) | 4.23 (1.94) | 4.77 (1.65) |
| clinic | 1305 | 4.72 (1.67) | 4.81 (2.02) | 4.19 (1.94) |
| clock | 688 | 5.14 (1.54) | 4.02 (2.54) | 4.67 (1.97) |
| closet | 1306 | 5.21 (1.45) | 4.57 (1.83) | 5.82 (1.68) |
| clot | 1307 | 3.13 (1.68) | 4.70 (2.37) | 3.66 (1.93) |
| cloth | 1308 | 5.27 (1.53) | 3.55 (2.05) | 5.14 (1.66) |
| clothe | 1309 | 5.97 (1.71) | 4.60 (2.11) | 5.80 (1.63) |
| clothes | 1310 | 6.66 (1.65) | 5.86 (2) | 6.52 (1.68) |
| clothing | 74 | 6.54 (1.85) | 4.78 (2.88) | 5.33 (2.14) |
| clouds | 533 | 6.18 (2.18) | 3.30 (2.08) | 5.22 (1.66) |
| clown | 1311 | 5.39 (2.15) | 5.43 (2.23) | 4.86 (2.03) |
| clue | 1312 | 5.57 (1.1) | 5.52 (1.43) | 5.03 (1.15) |
| clumsy | 689 | 4.00 (2.22) | 5.18 (2.4) | 3.86 (1.79) |
| coach | 1313 | 6.21 (1.66) | 5.59 (1.92) | 4.83 (2.04) |
| coarse | 690 | 4.55 (1.42) | 4.21 (1.84) | 5.00 (1.43) |
| coast | 691 | 5.98 (1.86) | 4.59 (2.31) | 5.67 (1.71) |
| coax | 1314 | 4.76 (1.53) | 4.83 (1.73) | 5.17 (1.77) |
| cocaine | 1315 | 3.37 (2.83) | 4.93 (3.31) | 4.70 (3.24) |
| cockpit | 1316 | 6.31 (1.65) | 5.53 (2.33) | 4.78 (2.34) |
| cockroach | 75 | 2.81 (2.11) | 6.11 (2.78) | 4.74 (2.58) |
| cocoa | 1317 | 7.28 (1.22) | 5.54 (2.47) | 6.04 (1.35) |
| cod | 1318 | 4.95 (1.66) | 4.05 (1.87) | 5.13 (1.36) |
| coddle | 1319 | 4.81 (1.11) | 4.43 (1.7) | 5.07 (1.66) |
| coffin | 76 | 2.56 (1.96) | 5.03 (2.79) | 4.08 (2.54) |
| cognition | 1320 | 5.57 (1.26) | 4.59 (2.1) | 5.56 (1.31) |
| coin | 692 | 6.02 (1.96) | 4.29 (2.48) | 5.66 (1.68) |
| cold | 693 | 4.02 (1.99) | 5.19 (2.23) | 4.69 (1.73) |
| colony | 1321 | 5.28 (1.56) | 4.86 (2.37) | 5.57 (1.62) |
| color | 694 | 7.02 (1.57) | 4.73 (2.64) | 6.17 (1.82) |
| column | 695 | 5.17 (0.85) | 3.62 (1.91) | 4.81 (1.58) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|--------------|----------|------------------|------------------|---------------------|
| comedy | 77 | 8.37 (0.94) | 5.85 (2.81) | 5.44 (2.08) |
| comet | 1322 | 6.23 (2.1) | 5.97 (2.11) | 4.30 (2.38) |
| comfort | 696 | 7.07 (2.14) | 3.93 (2.85) | 5.70 (2.05) |
| comfortable | 1323 | 8.07 (1.14) | 3.59 (2.5) | 6.70 (2.13) |
| command | 1324 | 4.57 (1.87) | 5.64 (2.53) | 4.25 (3.04) |
| communism | 1325 | 2.80 (2.41) | 5.55 (2.71) | 3.07 (2.29) |
| compel | 1326 | 4.97 (1.25) | 5.43 (1.89) | 5.53 (1.8) |
| competent | 1327 | 7.07 (1.53) | 5.34 (1.93) | 6.72 (1.89) |
| complete | 1328 | 8.17 (1.14) | 5.75 (2.17) | 7.36 (1.5) |
| complex | 1329 | 5.25 (1.32) | 5.62 (1.7) | 5.34 (1.54) |
| compulsive | 1330 | 4.14 (2.05) | 5.70 (2.46) | 4.04 (1.93) |
| computer | 552 | 6.24 (1.61) | 4.75 (1.93) | 5.29 (1.99) |
| concentrate | 78 | 5.20 (1.28) | 4.65 (2.13) | 4.97 (1.75) |
| concerned | 1331 | 4.06 (1.61) | 5.55 (2.13) | 4.45 (1.98) |
| concert | 1332 | 7.66 (1.4) | 7.32 (2.06) | 5.71 (2.02) |
| concrete | 1333 | 5.32 (0.98) | 4.03 (1.89) | 5.77 (1.41) |
| condom | 1334 | 6.30 (1.66) | 6.43 (1.96) | 6.30 (2.04) |
| confident | 79 | 7.98 (1.29) | 6.22 (2.41) | 7.68 (1.94) |
| confused | 80 | 3.21 (1.51) | 6.03 (1.88) | 4.24 (1.91) |
| confusion | 1335 | 3.46 (1.93) | 6.07 (2.34) | 3.04 (1.91) |
| conquer | 1336 | 6.86 (1.72) | 6.79 (1.79) | 7.25 (1.94) |
| conquest | 1337 | 5.85 (1.71) | 6.50 (1.9) | 5.73 (2.31) |
| consoled | 81 | 5.78 (1.64) | 4.53 (2.22) | 4.44 (1.84) |
| constructive | 1338 | 6.13 (1.43) | 5.13 (1.78) | 5.83 (1.78) |
| contempt | 82 | 3.85 (2.13) | 5.28 (2.04) | 5.13 (1.73) |
| contents | 83 | 4.89 (0.89) | 4.32 (2.14) | 4.85 (1.49) |
| context | 84 | 5.20 (1.38) | 4.22 (2.24) | 5.17 (1.39) |
| continuation | 1339 | 5.70 (1.58) | 4.93 (2.24) | 5.13 (1.59) |
| control | 1340 | 6.46 (1.35) | 5.93 (2.12) | 6.79 (2.44) |
| controlling | 85 | 3.80 (2.25) | 6.10 (2.19) | 5.17 (3.15) |
| convey | 1341 | 5.61 (1.37) | 4.64 (2.04) | 5.75 (1.67) |
| cook | 697 | 6.16 (1.89) | 4.44 (1.96) | 5.14 (1.49) |
| cookie | 1342 | 7.60 (1.43) | 5.43 (2.28) | 6.17 (1.78) |
| cookout | 1343 | 7.31 (1.69) | 6.14 (2.29) | 5.97 (1.61) |
| cool | 1344 | 6.83 (1.34) | 4.17 (2.27) | 5.97 (1.38) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| cope | 1345 | 4.60 (1.94) | 4.66 (2.14) | 4.76 (2.21) |
| copper | 1346 | 5.35 (0.95) | 3.61 (2.03) | 5.29 (1.42) |
| cord | 698 | 5.10 (1.09) | 3.54 (2.09) | 5.00 (1.22) |
| core | 1347 | 4.80 (1.19) | 4.18 (1.76) | 5.50 (1.45) |
| cork | 699 | 5.22 (1.13) | 3.80 (2.18) | 4.98 (1.04) |
| corn | 1348 | 6.00 (1.69) | 4.57 (1.93) | 5.71 (1.86) |
| corner | 700 | 4.36 (1.21) | 3.91 (1.92) | 4.12 (1.66) |
| corpse | 86 | 2.18 (1.48) | 4.74 (2.94) | 3.59 (2.44) |
| corridor | 701 | 4.88 (1.14) | 3.63 (2.41) | 5.00 (1.48) |
| corrupt | 702 | 3.32 (2.32) | 4.67 (2.35) | 4.64 (2.3) |
| costume | 1349 | 7.34 (1.26) | 6.00 (1.91) | 6.86 (1.56) |
| cottage | 87 | 6.45 (1.52) | 3.39 (2.54) | 5.39 (1.78) |
| couch | 1350 | 6.78 (1.64) | 4.03 (2.41) | 5.83 (2.13) |
| counselor | 1351 | 4.68 (1.94) | 4.54 (2.03) | 4.07 (1.88) |
| country | 1352 | 5.93 (1.91) | 5.26 (1.93) | 5.96 (1.93) |
| couple | 506 | 7.41 (1.97) | 6.39 (2.31) | 6.02 (2.28) |
| coupon | 1353 | 6.43 (1.57) | 5.10 (2.29) | 5.83 (2.07) |
| court | 1354 | 3.44 (2.41) | 5.67 (2.81) | 3.56 (2.79) |
| courtyard | 1355 | 5.75 (1.35) | 4.00 (2.27) | 5.30 (1.73) |
| cousin | 1356 | 6.32 (2.44) | 4.87 (2.33) | 5.13 (1.81) |
| cow | 554 | 5.57 (1.53) | 3.49 (2.13) | 5.32 (1.61) |
| coward | 703 | 2.74 (1.64) | 4.07 (2.19) | 2.83 (1.61) |
| cowboy | 1357 | 6.48 (1.88) | 5.75 (2.07) | 5.71 (1.74) |
| coyote | 1358 | 4.86 (2.19) | 5.19 (2.68) | 3.93 (2.04) |
| cozy | 88 | 7.39 (1.53) | 3.32 (2.28) | 4.89 (2.28) |
| crab | 1359 | 5.28 (1.87) | 4.72 (2.28) | 5.45 (1.7) |
| crackers | 1360 | 5.80 (1.4) | 4.47 (1.96) | 5.50 (1.28) |
| craft | 1361 | 6.54 (1.67) | 4.70 (2.27) | 5.33 (2.02) |
| cram | 1362 | 3.16 (2) | 6.40 (2.82) | 3.97 (2.59) |
| cranky | 1363 | 2.90 (1.9) | 5.36 (2.36) | 4.39 (1.71) |
| crash | 89 | 2.31 (1.44) | 6.95 (2.44) | 3.44 (2.21) |
| crave | 1364 | 4.88 (1.58) | 6.13 (1.43) | 3.97 (1.78) |
| crazy | 1365 | 5.93 (1.95) | 6.28 (2.25) | 5.13 (2.33) |
| create | 1366 | 6.79 (1.95) | 5.75 (1.6) | 5.89 (2.2) |
| creek | 1367 | 6.55 (1.68) | 4.62 (2.44) | 5.17 (1.61) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| crime | 704 | 2.89 (2.06) | 5.41 (2.69) | 4.12 (2.24) |
| criminal | 705 | 2.93 (1.66) | 4.79 (2.51) | 3.34 (1.73) |
| cripple | 1368 | 2.89 (1.66) | 5.14 (2.14) | 3.64 (1.62) |
| crisis | 706 | 2.74 (2.23) | 5.44 (3.07) | 3.60 (2.47) |
| critic | 1369 | 3.04 (1.48) | 5.67 (2.27) | 3.26 (2.3) |
| criticism | 1370 | 2.75 (1.76) | 6.18 (2.4) | 3.11 (1.89) |
| critique | 1371 | 4.39 (1.87) | 5.37 (2.06) | 4.07 (2.12) |
| crocodile | 1372 | 5.00 (2.36) | 6.03 (2.22) | 4.17 (2) |
| crossword | 1373 | 5.44 (1.58) | 3.96 (1.58) | 5.37 (1.18) |
| crowd | 1374 | 4.93 (1.6) | 5.30 (2.05) | 3.87 (1.98) |
| crown | 90 | 6.58 (1.42) | 4.28 (2.53) | 6.06 (2.15) |
| crucify | 91 | 2.23 (1.72) | 6.47 (2.47) | 3.74 (2.48) |
| crude | 707 | 3.12 (1.65) | 5.07 (2.37) | 4.27 (1.94) |
| cruel | 92 | 1.97 (1.67) | 5.68 (2.65) | 4.24 (2.84) |
| cruise | 1375 | 7.17 (1.68) | 5.83 (2.69) | 5.63 (1.65) |
| cruiseship | 1376 | 7.66 (1.45) | 6.76 (2.29) | 5.31 (2.14) |
| crumbs | 1377 | 4.27 (1.71) | 4.50 (2.06) | 5.31 (1.12) |
| crunch | 1378 | 5.83 (1.34) | 5.37 (1.94) | 5.57 (1.68) |
| crush | 1379 | 5.90 (2.07) | 6.70 (1.82) | 4.47 (2.18) |
| crushed | 93 | 2.21 (1.74) | 5.52 (2.87) | 3.36 (2.69) |
| crutch | 708 | 3.43 (1.62) | 4.14 (2.05) | 3.91 (1.79) |
| cuddle | 94 | 7.72 (1.92) | 4.40 (2.67) | 5.85 (2.42) |
| cuisine | 709 | 6.64 (1.48) | 4.39 (1.99) | 5.41 (1.19) |
| cult | 1380 | 2.48 (1.85) | 6.15 (2.71) | 3.44 (2.68) |
| culture | 1381 | 5.90 (2.34) | 4.90 (2.63) | 5.57 (2.69) |
| cup | 1382 | 5.44 (1.05) | 3.70 (2.16) | 5.63 (1.9) |
| cupboard | 1383 | 4.79 (1.21) | 3.83 (2.16) | 4.90 (1.45) |
| cupcake | 1384 | 7.20 (1.85) | 5.93 (2.38) | 5.67 (2.01) |
| cure | 1385 | 8.18 (1.25) | 6.57 (2.23) | 6.04 (2.28) |
| curious | 95 | 6.08 (1.63) | 5.82 (1.64) | 5.42 (1.6) |
| curtains | 710 | 4.83 (0.83) | 3.67 (1.83) | 5.05 (1.56) |
| curve | 1386 | 5.54 (1.2) | 5.07 (1.69) | 5.19 (1.3) |
| custom | 96 | 5.85 (1.53) | 4.66 (2.12) | 5.00 (1.87) |
| cut | 711 | 3.64 (2.08) | 5.00 (2.32) | 4.70 (1.98) |
| cute | 97 | 7.62 (1.01) | 5.53 (2.71) | 4.86 (2.32) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| cyclone | 98 | 3.60 (2.38) | 6.36 (2.89) | 4.89 (2.56) |
| dagger | 99 | 3.38 (1.77) | 6.14 (2.64) | 4.52 (2.27) |
| daisy | 1387 | 7.48 (1.53) | 3.96 (2.61) | 5.33 (2.5) |
| damage | 712 | 3.05 (1.65) | 5.57 (2.26) | 3.88 (1.86) |
| damn | 1388 | 4.52 (2.23) | 5.43 (2.38) | 5.18 (2.11) |
| damp | 1389 | 3.68 (1.56) | 4.07 (1.73) | 4.44 (1.55) |
| dance | 1390 | 7.38 (1.84) | 6.71 (1.98) | 6.04 (1.77) |
| dancer | 507 | 7.14 (1.56) | 6.00 (2.2) | 6.02 (1.93) |
| danger | 713 | 2.95 (2.22) | 7.32 (2.07) | 3.59 (2.31) |
| dare | 1391 | 5.76 (2.2) | 6.57 (2.46) | 5.00 (2.72) |
| dark | 714 | 4.71 (2.36) | 4.28 (2.21) | 4.84 (2.15) |
| daughter | 1392 | 6.36 (1.99) | 5.11 (1.99) | 5.68 (1.93) |
| dawn | 715 | 6.16 (2.33) | 4.39 (2.81) | 5.16 (2.23) |
| day | 1393 | 6.66 (1.43) | 5.00 (2.02) | 5.88 (1.43) |
| daylight | 716 | 6.80 (2.17) | 4.77 (2.5) | 5.48 (2.14) |
| daze | 1394 | 5.04 (1.55) | 4.00 (2.17) | 4.59 (1.47) |
| dazzle | 717 | 7.29 (1.09) | 6.33 (2.02) | 5.62 (1.81) |
| dead | 588 | 1.94 (1.76) | 5.73 (2.73) | 2.84 (2.32) |
| deadly | 1395 | 2.73 (1.89) | 6.62 (2.25) | 3.46 (2.14) |
| death | 100 | 1.61 (1.4) | 4.59 (3.07) | 3.47 (2.5) |
| debt | 101 | 2.22 (1.17) | 5.68 (2.74) | 3.02 (2.16) |
| decapitate | 1396 | 2.45 (1.9) | 6.41 (2.51) | 3.28 (2.45) |
| decay | 1397 | 2.68 (1.66) | 4.44 (2.28) | 3.63 (1.84) |
| deceit | 718 | 2.90 (1.63) | 5.68 (2.46) | 3.95 (2.12) |
| decency | 1398 | 5.83 (1.78) | 4.50 (1.63) | 5.70 (1.37) |
| decompose | 102 | 3.20 (1.81) | 4.65 (2.39) | 4.02 (1.91) |
| decorate | 719 | 6.93 (1.3) | 5.14 (2.39) | 6.05 (1.86) |
| deed | 1399 | 5.85 (1.46) | 5.15 (2.09) | 5.73 (1.76) |
| defeat | 1400 | 2.97 (2.34) | 5.63 (2.43) | 3.60 (2.34) |
| defeated | 103 | 2.34 (1.66) | 5.09 (3) | 3.11 (2.34) |
| defecate | 1401 | 3.33 (2.45) | 5.14 (2.85) | 4.77 (2.16) |
| defend | 1402 | 6.07 (1.89) | 5.97 (2.4) | 6.27 (1.98) |
| defer | 1403 | 4.10 (1.54) | 4.48 (2.37) | 4.76 (2.44) |
| defiant | 104 | 4.26 (2.12) | 6.10 (2.51) | 5.77 (2.4) |
| deformed | 720 | 2.41 (1.66) | 4.07 (2.34) | 3.95 (2.18) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| defy | 1404 | 5.40 (2.11) | 5.63 (2.28) | 6.00 (2.27) |
| delayed | 721 | 3.07 (1.74) | 5.62 (2.39) | 3.64 (1.94) |
| delight | 1405 | 7.48 (1.84) | 6.68 (2.2) | 5.68 (2.02) |
| delight | 105 | 8.26 (1.04) | 5.44 (2.88) | 5.79 (2.24) |
| delude | 1406 | 4.71 (1.04) | 4.10 (1.79) | 5.20 (1.16) |
| demand | 1407 | 3.76 (1.57) | 5.75 (1.71) | 4.86 (2.53) |
| democracy | 1408 | 6.55 (2.03) | 5.39 (2.36) | 6.04 (2.03) |
| demon | 106 | 2.11 (1.56) | 6.76 (2.68) | 4.89 (2.89) |
| den | 1409 | 5.72 (1.49) | 3.50 (2) | 6.17 (1.76) |
| denial | 1410 | 3.28 (1.44) | 6.03 (1.68) | 4.06 (2.14) |
| denote | 1411 | 4.63 (1.27) | 4.40 (1.87) | 4.83 (1.46) |
| dent | 1412 | 2.93 (1.49) | 5.69 (2.02) | 4.03 (1.86) |
| dentist | 589 | 4.02 (2.23) | 5.73 (2.13) | 3.80 (2.16) |
| deny | 1413 | 3.79 (1.29) | 4.86 (1.76) | 4.36 (1.99) |
| depart | 1414 | 3.63 (2.39) | 4.37 (2.48) | 3.63 (2.2) |
| depressed | 107 | 1.83 (1.42) | 4.72 (2.95) | 2.74 (2.13) |
| depression | 108 | 1.85 (1.67) | 4.54 (3.19) | 2.91 (2.27) |
| derelict | 722 | 4.28 (1.84) | 4.10 (1.94) | 4.78 (1.56) |
| descent | 1415 | 5.00 (1.47) | 4.58 (2.06) | 4.83 (1.83) |
| desert | 1416 | 4.96 (2.5) | 4.82 (2.34) | 5.00 (2.09) |
| deserter | 109 | 2.45 (1.8) | 5.50 (2.55) | 3.77 (2.29) |
| desire | 508 | 7.69 (1.39) | 7.35 (1.76) | 6.49 (1.83) |
| desk | 1417 | 4.66 (1.14) | 4.03 (1.72) | 5.55 (1.94) |
| despairing | 110 | 2.43 (1.47) | 5.68 (2.37) | 3.43 (2.11) |
| despise | 111 | 2.03 (1.38) | 6.28 (2.43) | 4.72 (2.8) |
| destroy | 112 | 2.64 (2.03) | 6.83 (2.38) | 4.94 (2.86) |
| destruction | 723 | 3.16 (2.44) | 5.82 (2.71) | 3.93 (2.29) |
| detach | 1418 | 3.19 (1.57) | 4.19 (2.32) | 3.93 (2.34) |
| detached | 113 | 3.86 (1.88) | 4.26 (2.57) | 3.63 (2.15) |
| detail | 724 | 5.55 (1.58) | 4.10 (2.24) | 5.21 (1.6) |
| detain | 1419 | 3.03 (1.35) | 5.52 (2.13) | 3.58 (1.91) |
| detest | 114 | 2.17 (1.3) | 6.06 (2.39) | 5.83 (2.6) |
| devil | 115 | 2.21 (1.99) | 6.07 (2.61) | 5.35 (2.75) |
| devote | 1420 | 6.32 (1.49) | 5.37 (1.88) | 6.19 (1.82) |
| devoted | 116 | 7.41 (1.37) | 5.23 (2.21) | 6.18 (2.36) |

| Description | Word No. | Valence Mean(SD) | | Arousal Mean(SD) | | Dominance Mean (SD) | |
|----------------|----------|------------------|--------|------------------|--------|---------------------|--------|
| devour | 1421 | 5.62 | (2.13) | 5.39 | (2.02) | 5.00 | (2.09) |
| dew | 1422 | 5.59 | (1.52) | 3.64 | (1.79) | 5.10 | (1.74) |
| diamond | 117 | 7.92 | (1.2) | 5.53 | (2.96) | 5.54 | (2.28) |
| diary | 1423 | 5.73 | (1.04) | 3.69 | (1.95) | 6.38 | (2.02) |
| dice | 1424 | 5.72 | (1.28) | 4.96 | (2.15) | 4.64 | (1.93) |
| die | 1425 | 2.48 | (1.7) | 6.38 | (2.64) | 2.55 | (2.23) |
| difficult | 1426 | 2.93 | (1.59) | 5.96 | (2.1) | 4.19 | (2.59) |
| dignified | 118 | 7.10 | (1.26) | 4.12 | (2.29) | 6.12 | (2.4) |
| dinner | 509 | 7.16 | (1.5) | 5.43 | (2.14) | 6.10 | (1.87) |
| diploma | 119 | 8.00 | (1.39) | 5.67 | (2.8) | 6.76 | (2.5) |
| dirt | 725 | 4.17 | (1.77) | 3.76 | (2.26) | 4.83 | (1.82) |
| dirty | 590 | 3.08 | (2.05) | 4.88 | (2.29) | 4.70 | (2.12) |
| disability | 1427 | 2.52 | (1.27) | 4.46 | (2.49) | 2.43 | (1.5) |
| disappoint | 120 | 2.39 | (1.44) | 4.92 | (2.64) | 3.29 | (2.32) |
| disappointed | 1428 | 2.21 | (1.47) | 4.82 | (2.88) | 3.11 | (2.13) |
| disappointment | 1429 | 2.37 | (1.27) | 4.60 | (2.4) | 3.20 | (2.04) |
| disaster | 121 | 1.73 | (1.13) | 6.33 | (2.7) | 3.52 | (2.42) |
| discomfort | 726 | 2.19 | (1.23) | 4.17 | (2.44) | 3.86 | (2.26) |
| discount | 1430 | 7.48 | (1.48) | 6.10 | (2.02) | 5.94 | (1.91) |
| discouraged | 122 | 3.00 | (2.16) | 4.53 | (2.11) | 3.61 | (2.01) |
| disdainful | 123 | 3.68 | (1.9) | 5.04 | (2.14) | 4.55 | (1.92) |
| disease | 1431 | 2.03 | (1.24) | 5.32 | (2.47) | 2.71 | (1.84) |
| disgusted | 124 | 2.45 | (1.41) | 5.42 | (2.59) | 4.34 | (1.94) |
| disgusting | 1432 | 2.96 | (1.55) | 5.18 | (2.28) | 3.64 | (2.04) |
| dishes | 1433 | 3.62 | (1.56) | 4.06 | (2.23) | 4.84 | (1.76) |
| disk | 1434 | 5.25 | (0.89) | 3.86 | (1.82) | 5.64 | (1.45) |
| disloyal | 125 | 1.93 | (1.61) | 6.56 | (2.21) | 3.79 | (2.75) |
| disorder | 1435 | 2.72 | (1.46) | 5.42 | (2.32) | 2.71 | (1.55) |
| displeased | 126 | 2.79 | (2.23) | 5.64 | (2.48) | 4.19 | (2.19) |
| distracted | 1436 | 4.48 | (1.95) | 4.56 | (2.26) | 4.07 | (1.82) |
| distress | 1437 | 2.67 | (2.01) | 5.70 | (2.34) | 3.03 | (1.94) |
| distressed | 127 | 1.94 | (1.1) | 6.40 | (2.38) | 3.76 | (2.41) |
| disturb | 727 | 3.66 | (2) | 5.80 | (2.39) | 4.55 | (1.9) |
| diver | 510 | 6.45 | (1.55) | 5.04 | (2.1) | 5.04 | (1.91) |
| divert | 1438 | 4.44 | (1.72) | 5.22 | (2.44) | 4.89 | (2.26) |

| Description | Word No. | Valence Mean(SD) | | Arousal Mean(SD) | | Dominance Mean (SD) | |
|-------------|----------|------------------|--------|------------------|--------|---------------------|--------|
| divorce | 128 | 2.22 | (1.88) | 6.33 | (2.71) | 3.26 | (2.24) |
| doctor | 129 | 5.20 | (2.54) | 5.86 | (2.7) | 4.89 | (2.75) |
| dog | 511 | 7.57 | (1.66) | 5.76 | (2.5) | 6.25 | (2.1) |
| doll | 728 | 6.09 | (1.96) | 4.24 | (2.43) | 4.61 | (2.07) |
| dollar | 729 | 7.47 | (1.72) | 6.07 | (2.67) | 6.33 | (2.42) |
| donate | 1439 | 6.89 | (1.69) | 4.48 | (2.15) | 6.70 | (1.79) |
| donkey | 1440 | 5.54 | (1.5) | 4.22 | (1.97) | 5.67 | (1.52) |
| donor | 1441 | 6.43 | (1.71) | 5.11 | (1.97) | 6.07 | (1.86) |
| door | 130 | 5.13 | (1.44) | 3.80 | (2.29) | 4.69 | (1.72) |
| doubt | 1442 | 3.43 | (1.97) | 4.50 | (2.15) | 3.64 | (1.93) |
| doubtful | 1443 | 3.41 | (1.18) | 4.28 | (1.83) | 3.76 | (1.72) |
| dough | 1444 | 6.09 | (1.59) | 4.59 | (1.93) | 5.69 | (1.79) |
| dove | 730 | 6.90 | (1.54) | 3.79 | (2.28) | 5.48 | (1.7) |
| dragon | 1445 | 5.43 | (1.85) | 5.50 | (2.33) | 4.39 | (1.93) |
| drama | 1446 | 3.86 | (2.59) | 6.39 | (1.93) | 5.32 | (2.36) |
| dreadful | 131 | 2.26 | (1.91) | 5.84 | (2.62) | 4.10 | (2.36) |
| dream | 132 | 6.73 | (1.75) | 4.53 | (2.72) | 5.53 | (1.98) |
| dreams | 1447 | 7.14 | (1.46) | 6.48 | (1.88) | 5.38 | (2.38) |
| dreary | 731 | 3.05 | (1.58) | 2.98 | (2.18) | 3.81 | (1.64) |
| dress | 133 | 6.41 | (1.34) | 4.05 | (1.89) | 5.00 | (1.89) |
| drill | 1448 | 4.40 | (1.57) | 5.40 | (1.69) | 4.80 | (1.73) |
| driver | 1449 | 6.13 | (1.28) | 4.87 | (1.8) | 6.35 | (1.87) |
| droop | 1450 | 3.21 | (1.74) | 3.39 | (1.79) | 3.96 | (0.96) |
| drown | 1451 | 2.20 | (1.68) | 6.84 | (2.17) | 2.68 | (2.32) |
| drown | 591 | 1.92 | (1.48) | 6.57 | (2.33) | 2.86 | (1.99) |
| drugs | 1452 | 3.76 | (2.2) | 6.00 | (2.39) | 4.75 | (2.62) |
| drunk | 1453 | 6.17 | (2.5) | 6.11 | (2.46) | 4.54 | (2.59) |
| dryer | 1454 | 5.03 | (1.12) | 3.79 | (1.76) | 5.50 | (1.5) |
| ducks | 1455 | 6.20 | (1.56) | 4.34 | (2.18) | 5.24 | (1.43) |
| duct | 1456 | 4.86 | (1.06) | 4.17 | (1.81) | 5.17 | (1.67) |
| duet | 1457 | 6.27 | (1.26) | 5.43 | (1.94) | 5.27 | (1.51) |
| dumb | 1458 | 3.00 | (2.15) | 4.24 | (2.21) | 3.69 | (1.91) |
| dummy | 732 | 3.38 | (1.7) | 4.35 | (2.25) | 3.67 | (2.02) |
| dump | 733 | 3.21 | (1.87) | 4.12 | (2.36) | 3.83 | (1.87) |
| dune | 1459 | 5.03 | (1.57) | 4.17 | (2.02) | 5.10 | (1.4) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|---------------|----------|------------------|------------------|---------------------|
| dusk | 1460 | 5.40 (1.5) | 4.37 (1.87) | 4.77 (1.41) |
| dust | 1461 | 3.90 (1.89) | 4.10 (1.99) | 4.50 (1.57) |
| dustpan | 555 | 3.98 (1.68) | 3.43 (2) | 5.45 (1.81) |
| duty | 1462 | 5.81 (1.83) | 5.06 (2.08) | 5.19 (1.82) |
| dwarf | 1463 | 5.11 (1.85) | 4.32 (1.74) | 5.14 (1.82) |
| dwelling | 1464 | 4.87 (1.65) | 4.00 (2.02) | 5.35 (1.89) |
| eager | 1465 | 7.32 (1.28) | 6.57 (2.04) | 5.14 (1.78) |
| eagerness | 1466 | 6.21 (1.89) | 6.29 (1.84) | 5.39 (1.5) |
| eagle | 1467 | 6.03 (1.66) | 4.76 (1.86) | 4.79 (1.76) |
| earth | 134 | 7.15 (1.67) | 4.24 (2.49) | 5.61 (2.3) |
| ease | 1468 | 6.93 (1.46) | 3.46 (2.41) | 6.71 (2.02) |
| easel | 1469 | 5.41 (1.43) | 4.43 (1.71) | 5.43 (1.97) |
| easy | 734 | 7.10 (1.91) | 4.48 (2.82) | 7.00 (1.63) |
| easygoing | 135 | 7.20 (1.5) | 4.30 (2.52) | 5.25 (1.75) |
| eat | 136 | 7.47 (1.73) | 5.69 (2.51) | 5.60 (2.12) |
| echo | 1470 | 6.17 (1.62) | 5.07 (1.74) | 5.17 (1.39) |
| ecstasy | 735 | 7.98 (1.52) | 7.38 (1.92) | 6.68 (2.08) |
| ecstatic | 1471 | 8.41 (1.27) | 7.71 (1.82) | 6.14 (2.03) |
| education | 137 | 6.69 (1.77) | 5.74 (2.46) | 6.15 (2.35) |
| effective | 1472 | 7.06 (1.69) | 5.03 (2.44) | 6.13 (2.5) |
| efficient | 1473 | 7.07 (1.63) | 5.57 (2.15) | 6.43 (2.36) |
| egg | 736 | 5.29 (1.82) | 3.76 (2.39) | 4.49 (2.16) |
| ego | 1474 | 5.07 (1.31) | 4.66 (1.45) | 6.66 (1.86) |
| ejaculate | 1475 | 5.92 (1.44) | 6.62 (1.58) | 5.65 (2.21) |
| elated | 138 | 7.45 (1.77) | 6.21 (2.3) | 5.53 (2.35) |
| elbow | 737 | 5.12 (0.92) | 3.81 (2.14) | 4.88 (1.52) |
| elderly | 1476 | 4.86 (2.05) | 4.03 (2.41) | 3.83 (1.85) |
| elegant | 139 | 7.43 (1.26) | 4.53 (2.65) | 5.95 (2.09) |
| elephant | 1477 | 6.48 (1.72) | 5.59 (2.45) | 4.70 (2.46) |
| elevator | 738 | 5.44 (1.18) | 4.16 (1.99) | 4.32 (1.69) |
| embark | 1478 | 6.47 (1.57) | 5.83 (2.45) | 6.17 (1.66) |
| embarrass | 1479 | 2.50 (1.45) | 6.14 (2.4) | 2.78 (2.36) |
| embarrassed | 140 | 3.03 (1.85) | 5.87 (2.55) | 2.87 (1.99) |
| embarrassment | 1480 | 2.34 (1.82) | 6.54 (2.28) | 2.71 (2.14) |
| embattled | 141 | 4.39 (1.63) | 5.36 (2.37) | 4.81 (1.79) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|--------------|----------|------------------|------------------|---------------------|
| emotional | 1481 | 4.36 (1.91) | 5.75 (2.37) | 4.29 (1.63) |
| empathy | 1482 | 5.32 (2.42) | 4.81 (2.2) | 4.33 (2.09) |
| empire | 1483 | 6.26 (1.67) | 5.65 (1.84) | 6.29 (2.55) |
| employment | 147 | 6.47 (1.81) | 5.28 (2.13) | 5.73 (2.08) |
| enable | 1484 | 5.93 (1.44) | 5.10 (1.61) | 5.90 (1.78) |
| encourage | 1485 | 7.27 (1.53) | 5.55 (1.99) | 6.48 (1.35) |
| end | 1486 | 3.44 (1.64) | 4.44 (2.17) | 4.41 (1.78) |
| endure | 1487 | 5.50 (1.81) | 5.56 (1.92) | 5.91 (2.05) |
| energy | 1488 | 7.23 (1.55) | 6.90 (1.94) | 6.93 (1.62) |
| enforcement | 1489 | 4.17 (1.49) | 5.73 (1.55) | 4.27 (2.29) |
| engage | 1490 | 6.31 (1.81) | 5.96 (2.11) | 5.23 (1.88) |
| engaged | 143 | 8.00 (1.38) | 6.77 (2.07) | 6.49 (2.22) |
| engine | 148 | 5.20 (1.18) | 3.98 (2.34) | 5.00 (1.78) |
| engulf | 1491 | 4.74 (1.7) | 4.93 (2.32) | 4.37 (2.54) |
| enjoy | 1492 | 8.17 (1.29) | 6.33 (1.94) | 6.40 (1.22) |
| enjoyment | 145 | 7.80 (1.2) | 5.20 (2.72) | 6.46 (1.77) |
| enlist | 1493 | 4.03 (1.93) | 5.47 (1.88) | 4.41 (2) |
| ennui | 146 | 5.09 (1.76) | 4.40 (2.33) | 4.67 (1.8) |
| enraged | 149 | 2.46 (1.65) | 7.97 (2.17) | 6.33 (2.92) |
| enthusiastic | 1494 | 8.17 (1.23) | 7.38 (2.24) | 6.75 (1.71) |
| entry | 1495 | 5.69 (1.12) | 4.72 (1.94) | 5.81 (1.47) |
| envious | 1496 | 3.57 (1.76) | 5.57 (1.85) | 4.54 (2.03) |
| envy | 1497 | 3.41 (1.54) | 5.50 (1.74) | 4.12 (1.91) |
| enzyme | 1498 | 4.90 (1.63) | 4.34 (2.3) | 4.17 (1.26) |
| erase | 1499 | 4.17 (1.82) | 4.10 (2.09) | 4.87 (1.8) |
| erasure | 1500 | 4.84 (0.68) | 4.44 (1.7) | 5.12 (1.21) |
| erect | 1501 | 6.26 (2.29) | 6.40 (2.34) | 5.87 (1.96) |
| erode | 1502 | 3.67 (1.65) | 5.17 (1.91) | 3.97 (1.7) |
| erotic | 512 | 7.43 (1.53) | 7.24 (1.97) | 6.39 (2.16) |
| err | 1503 | 4.16 (2.02) | 4.88 (1.76) | 4.31 (1.55) |
| errand | 150 | 4.58 (1.74) | 3.85 (1.92) | 4.78 (1.51) |
| erupt | 1504 | 5.43 (1.57) | 6.57 (2.14) | 3.80 (1.97) |
| essence | 1505 | 6.75 (1.62) | 5.18 (2.25) | 5.61 (1.52) |
| estate | 1506 | 6.59 (1.96) | 4.86 (2.33) | 5.66 (2) |
| evade | 1507 | 4.47 (1.83) | 5.60 (2.24) | 5.53 (2.27) |

| Description | Word No. | Valence Mean(SD) | | Arousal Mean(SD) | | Dominance Mean (SD) | |
|--------------|----------|------------------|--------|------------------|--------|---------------------|--------|
| event | 740 | 6.21 | (1.63) | 5.10 | (2.4) | 5.52 | (1.57) |
| evict | 1508 | 3.04 | (1.4) | 5.68 | (2.12) | 2.92 | (1.91) |
| evil | 741 | 3.23 | (2.64) | 6.39 | (2.44) | 5.25 | (2.6) |
| exalt | 1509 | 6.87 | (1.59) | 6.00 | (2.42) | 5.76 | (1.66) |
| exam | 1510 | 2.76 | (1.99) | 7.03 | (2.43) | 3.34 | (2.18) |
| exasperation | 1511 | 4.18 | (2) | 5.64 | (2.59) | 4.57 | (2.03) |
| excel | 1512 | 7.45 | (1.55) | 5.45 | (2.16) | 7.00 | (1.75) |
| excellence | 151 | 8.38 | (0.96) | 5.54 | (2.67) | 7.28 | (2.32) |
| excite | 1513 | 7.60 | (1.29) | 7.16 | (1.49) | 6.16 | (1.43) |
| excitement | 152 | 7.50 | (2.2) | 7.67 | (1.91) | 6.18 | (2.17) |
| excrement | 1514 | 4.10 | (2.37) | 4.83 | (2.1) | 4.53 | (1.89) |
| excuse | 153 | 4.05 | (1.41) | 4.48 | (2.29) | 4.07 | (2.1) |
| execution | 154 | 2.37 | (2.06) | 5.71 | (2.74) | 4.11 | (2.66) |
| exercise | 155 | 7.13 | (1.58) | 6.84 | (2.06) | 5.68 | (2.44) |
| exert | 1515 | 5.35 | (1.92) | 5.19 | (2.35) | 6.04 | (1.48) |
| exhale | 1516 | 5.93 | (1.78) | 4.15 | (1.85) | 5.96 | (1.53) |
| exhaust | 1517 | 4.00 | (1.66) | 4.27 | (2.2) | 4.43 | (1.45) |
| exhilaration | 1518 | 7.43 | (1.48) | 7.20 | (2.09) | 6.67 | (1.88) |
| exist | 1519 | 6.68 | (1.76) | 5.39 | (2.59) | 4.79 | (2.18) |
| expel | 1520 | 2.77 | (1.43) | 5.90 | (2.17) | 3.29 | (2) |
| expensive | 1521 | 4.59 | (2.16) | 6.04 | (1.71) | 4.57 | (1.89) |
| expert | 1522 | 6.40 | (1.85) | 5.17 | (2.26) | 6.23 | (2.5) |
| expire | 1523 | 3.13 | (1.41) | 4.60 | (2.08) | 3.87 | (1.81) |
| explosion | 1524 | 5.18 | (2.93) | 7.93 | (1.9) | 4.46 | (2.92) |
| extent | 1525 | 5.20 | (0.61) | 3.83 | (1.9) | 5.00 | (1.46) |
| extreme | 1526 | 6.39 | (1.93) | 7.11 | (1.97) | 5.71 | (1.61) |
| eye | 1527 | 5.86 | (1.38) | 4.52 | (2.15) | 5.07 | (1.41) |
| fabric | 742 | 5.30 | (1.2) | 4.14 | (1.98) | 5.03 | (1.61) |
| face | 556 | 6.39 | (1.6) | 5.04 | (2.18) | 5.67 | (1.58) |
| fact | 1528 | 5.55 | (1.68) | 4.29 | (1.92) | 5.57 | (1.71) |
| factory | 1529 | 4.59 | (1.8) | 3.93 | (1.76) | 4.93 | (1.98) |
| fad | 1530 | 5.08 | (1.74) | 4.46 | (1.98) | 4.15 | (1.83) |
| fail | 1531 | 1.79 | (1.74) | 6.31 | (2.84) | 3.31 | (2.77) |
| failure | 156 | 1.70 | (1.07) | 4.95 | (2.81) | 2.40 | (2.18) |
| fair | 1532 | 6.67 | (1.95) | 5.40 | (2.08) | 5.77 | (1.89) |

| Description | Word No. | Valence Mean(SD) | | Arousal Mean(SD) | | Dominance Mean (SD) | |
|-------------|----------|------------------|--------|------------------|--------|---------------------|--------|
| fairy | 1533 | 6.24 | (2.01) | 4.25 | (1.9) | 5.43 | (1.79) |
| faith | 1534 | 6.57 | (2.16) | 5.73 | (2.42) | 5.60 | (1.85) |
| fake | 1535 | 3.10 | (1.49) | 5.26 | (2.18) | 4.58 | (2.16) |
| falcon | 1536 | 5.79 | (1.78) | 5.14 | (2.07) | 5.21 | (1.17) |
| fall | 743 | 4.09 | (2.21) | 4.70 | (2.48) | 4.00 | (2.15) |
| false | 1537 | 3.74 | (2.03) | 4.40 | (2.04) | 4.20 | (1.97) |
| false | 744 | 3.27 | (1.4) | 3.43 | (2.09) | 4.10 | (1.56) |
| falter | 1538 | 3.77 | (1.61) | 5.00 | (2.7) | 4.00 | (1.76) |
| fame | 157 | 7.93 | (1.29) | 6.55 | (2.46) | 6.85 | (2.14) |
| family | 158 | 7.65 | (1.55) | 4.80 | (2.71) | 6.00 | (1.87) |
| famine | 1539 | 1.86 | (1.15) | 5.04 | (2.43) | 2.48 | (1.93) |
| famous | 745 | 6.98 | (2.07) | 5.73 | (2.68) | 6.32 | (2.18) |
| fan | 1540 | 6.36 | (1.47) | 4.89 | (2.34) | 5.33 | (1.62) |
| fantasy | 746 | 7.41 | (1.9) | 5.14 | (2.82) | 6.43 | (2.05) |
| farm | 557 | 5.53 | (1.85) | 3.90 | (1.95) | 5.59 | (1.81) |
| farmer | 1541 | 4.93 | (1.98) | 3.55 | (2.06) | 5.50 | (1.89) |
| fascinate | 159 | 7.34 | (1.68) | 5.83 | (2.73) | 6.15 | (1.89) |
| fashion | 1542 | 7.04 | (1.73) | 6.00 | (2.11) | 6.00 | (1.85) |
| fat | 160 | 2.28 | (1.92) | 4.81 | (2.8) | 4.47 | (3.06) |
| fate | 1543 | 5.43 | (1.83) | 5.36 | (2.06) | 4.07 | (2.85) |
| father | 161 | 7.08 | (2.2) | 5.92 | (2.6) | 5.63 | (2.89) |
| fatigued | 162 | 3.28 | (1.43) | 2.64 | (2.19) | 3.78 | (1.97) |
| fault | 747 | 3.43 | (1.38) | 4.07 | (1.69) | 4.02 | (1.66) |
| favor | 748 | 6.46 | (1.52) | 4.54 | (1.86) | 5.67 | (1.76) |
| fawn | 1544 | 6.06 | (1.48) | 3.72 | (1.9) | 4.84 | (1.32) |
| fear | 592 | 2.76 | (2.12) | 6.96 | (2.17) | 3.22 | (2.2) |
| fearful | 163 | 2.25 | (1.18) | 6.33 | (2.28) | 3.64 | (2.18) |
| feat | 1545 | 5.62 | (1.63) | 5.10 | (1.72) | 5.55 | (1.8) |
| feeble | 164 | 3.26 | (1.47) | 4.10 | (2.07) | 2.71 | (1.64) |
| feeling | 1546 | 6.23 | (1.56) | 5.00 | (2.23) | 5.62 | (1.98) |
| feet | 1547 | 4.60 | (1.81) | 3.67 | (1.95) | 5.60 | (1.73) |
| female | 1548 | 7.83 | (1.42) | 5.83 | (2.39) | 5.57 | (1.55) |
| fence | 1549 | 4.93 | (0.59) | 3.72 | (1.94) | 4.97 | (1.52) |
| fender | 1550 | 4.48 | (2.03) | 4.86 | (2.45) | 4.97 | (1.55) |
| fern | 1551 | 5.10 | (1.12) | 3.83 | (1.9) | 5.30 | (1.44) |

| Description | Word No. | Valence Mean(SD) | | Arousal Mean(SD) | | Dominance Mean (SD) | |
|-------------|----------|------------------|--------|------------------|--------|---------------------|--------|
| fervor | 1552 | 5.00 | (1.13) | 4.81 | (2.08) | 4.44 | (1.89) |
| festive | 749 | 7.30 | (2.26) | 6.58 | (2.29) | 5.77 | (2.34) |
| fetus | 1553 | 5.21 | (1.42) | 4.97 | (2.04) | 4.97 | (2.06) |
| feud | 1554 | 3.07 | (1.64) | 6.14 | (2.01) | 4.13 | (1.72) |
| fever | 750 | 2.76 | (1.64) | 4.29 | (2.31) | 3.52 | (2.15) |
| field | 558 | 6.20 | (1.37) | 4.08 | (2.41) | 5.84 | (1.94) |
| fig | 1555 | 5.63 | (1.25) | 3.87 | (2.29) | 4.87 | (1.68) |
| fight | 751 | 3.76 | (2.63) | 7.15 | (2.19) | 5.27 | (2.69) |
| film | 1556 | 6.93 | (1.7) | 5.32 | (1.96) | 5.14 | (1.74) |
| filth | 165 | 2.47 | (1.68) | 5.12 | (2.32) | 3.81 | (2.06) |
| financial | 1557 | 4.15 | (2.09) | 5.70 | (2.22) | 3.81 | (1.98) |
| finger | 752 | 5.29 | (1.42) | 3.78 | (2.42) | 5.05 | (1.7) |
| fingerprint | 1558 | 4.87 | (0.73) | 4.67 | (1.9) | 4.50 | (1.55) |
| finish | 1559 | 7.80 | (1.67) | 5.37 | (2.86) | 6.93 | (2.16) |
| fire | 166 | 3.22 | (2.06) | 7.17 | (2.06) | 4.49 | (2.49) |
| firefighter | 1560 | 6.90 | (1.61) | 5.93 | (2.16) | 5.68 | (2.36) |
| fireplace | 1561 | 6.93 | (1.76) | 4.48 | (2.32) | 5.69 | (1.97) |
| fireworks | 513 | 7.55 | (1.5) | 6.67 | (2.12) | 5.51 | (1.98) |
| first | 1562 | 6.89 | (2.22) | 6.14 | (2.48) | 7.21 | (1.93) |
| fish | 559 | 6.04 | (1.94) | 4.00 | (2.19) | 6.02 | (1.68) |
| fisherman | 1563 | 5.94 | (1.95) | 4.97 | (2.19) | 5.46 | (1.79) |
| fitting | 1564 | 5.60 | (1.66) | 4.50 | (1.82) | 5.33 | (1.17) |
| flabby | 167 | 2.66 | (1.87) | 4.82 | (2.81) | 3.31 | (1.9) |
| flag | 753 | 6.02 | (1.66) | 4.60 | (2.35) | 5.50 | (1.66) |
| flare | 1565 | 5.70 | (1.97) | 5.23 | (2.18) | 4.93 | (1.41) |
| flaunt | 1566 | 5.04 | (2.3) | 5.70 | (2.22) | 5.22 | (2.39) |
| flaw | 1567 | 3.28 | (1.44) | 4.66 | (1.72) | 3.45 | (1.66) |
| flea | 1568 | 3.47 | (2.06) | 5.23 | (2.22) | 4.13 | (1.63) |
| flee | 1569 | 3.29 | (1.94) | 6.18 | (2.13) | 3.79 | (2.08) |
| flight | 1570 | 6.69 | (1.38) | 6.25 | (1.92) | 4.81 | (1.49) |
| flirt | 754 | 7.52 | (1.19) | 6.91 | (1.69) | 6.24 | (2.33) |
| flock | 1571 | 5.50 | (1.22) | 4.50 | (1.63) | 4.80 | (1.27) |
| flood | 755 | 3.19 | (1.66) | 6.00 | (2.02) | 3.24 | (2.14) |
| flow | 1572 | 5.77 | (1.19) | 3.60 | (1.79) | 5.43 | (1.55) |
| flower | 168 | 6.64 | (1.78) | 4.00 | (2.44) | 4.98 | (2.17) |

| Description | Word No. | Valence Mean(SD) | | Arousal Mean(SD) | | Dominance Mean (SD) | |
|-------------|----------|------------------|--------|------------------|--------|---------------------|--------|
| flu | 1573 | 2.52 | (2.2) | 4.83 | (2.18) | 2.67 | (1.99) |
| fluffy | 1574 | 7.17 | (1.56) | 4.57 | (2.52) | 5.43 | (1.14) |
| flute | 1575 | 5.72 | (1.44) | 4.25 | (1.98) | 5.12 | (1.07) |
| fly | 1576 | 7.29 | (1.76) | 6.64 | (2.08) | 5.18 | (2.54) |
| foam | 756 | 6.07 | (2.03) | 5.26 | (2.54) | 5.24 | (1.97) |
| foe | 1577 | 3.39 | (2.1) | 6.00 | (2.65) | 5.25 | (2.17) |
| folly | 1578 | 4.40 | (1.45) | 4.30 | (2.04) | 4.30 | (1.34) |
| food | 514 | 7.65 | (1.37) | 5.92 | (2.11) | 6.18 | (2.48) |
| foolish | 1579 | 3.54 | (1.79) | 4.46 | (2.06) | 4.12 | (1.77) |
| foot | 757 | 5.02 | (0.93) | 3.27 | (1.98) | 4.98 | (1.42) |
| football | 1580 | 7.64 | (1.75) | 6.54 | (2.81) | 6.21 | (2.26) |
| forbid | 1581 | 3.13 | (1.74) | 5.47 | (2.26) | 3.57 | (2.01) |
| forceful | 1582 | 3.84 | (1.57) | 5.72 | (1.82) | 4.31 | (2.21) |
| forest | 1583 | 6.39 | (1.57) | 4.86 | (2.01) | 5.11 | (2.08) |
| forget | 1584 | 2.97 | (1.54) | 5.00 | (2.05) | 3.55 | (1.57) |
| forgive | 1585 | 6.33 | (1.8) | 4.89 | (2.01) | 4.93 | (2.22) |
| fork | 560 | 5.29 | (0.97) | 3.96 | (1.94) | 5.74 | (1.52) |
| fornicate | 1586 | 5.53 | (2.73) | 6.60 | (1.99) | 5.80 | (2.02) |
| foul | 169 | 2.81 | (1.52) | 4.93 | (2.23) | 4.51 | (1.89) |
| fragrance | 170 | 6.07 | (1.97) | 4.79 | (2.54) | 5.14 | (1.91) |
| fraud | 171 | 2.67 | (1.66) | 5.75 | (2.45) | 3.58 | (2.5) |
| free | 172 | 8.26 | (1.31) | 5.15 | (3.04) | 6.35 | (2.4) |
| freedom | 173 | 7.58 | (2.04) | 5.52 | (2.72) | 6.76 | (2.29) |
| freeway | 1587 | 6.07 | (2) | 5.87 | (2.06) | 5.50 | (1.8) |
| freezer | 1588 | 4.96 | (1.87) | 4.30 | (2.27) | 4.85 | (1.68) |
| frenzy | 1589 | 4.97 | (1.4) | 6.86 | (1.83) | 4.41 | (1.97) |
| friend | 174 | 7.74 | (1.24) | 5.74 | (2.57) | 6.74 | (1.89) |
| friendly | 175 | 8.43 | (1.08) | 5.11 | (2.96) | 5.92 | (2.42) |
| fries | 1590 | 6.81 | (1.91) | 4.97 | (2.43) | 5.97 | (1.98) |
| fright | 1591 | 3.19 | (1.41) | 5.77 | (1.99) | 4.12 | (1.73) |
| frightened | 1592 | 2.59 | (1.5) | 6.90 | (2.11) | 3.21 | (2.29) |
| frigid | 758 | 3.50 | (1.85) | 4.75 | (2.56) | 4.27 | (1.98) |
| frog | 176 | 5.71 | (1.74) | 4.54 | (2.03) | 5.34 | (1.96) |
| frolic | 1593 | 6.64 | (1.83) | 5.04 | (2.5) | 5.29 | (2.09) |
| frosting | 1594 | 7.23 | (1.59) | 5.47 | (1.41) | 5.53 | (1.59) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| frown | 1595 | 1.87 (1.31) | 4.27 (2.24) | 3.70 (1.58) |
| fruit | 1596 | 6.93 (1.82) | 4.63 (2.31) | 5.67 (2.02) |
| frustrated | 177 | 2.48 (1.64) | 5.61 (2.76) | 3.50 (2.12) |
| frustration | 1597 | 2.42 (1.55) | 6.19 (2.58) | 3.62 (2.32) |
| fulfilled | 1598 | 7.27 (1.8) | 5.10 (2.6) | 6.86 (1.85) |
| fun | 759 | 8.37 (1.11) | 7.22 (2.01) | 6.80 (1.85) |
| funeral | 178 | 1.39 (0.87) | 4.94 (3.21) | 2.97 (2.55) |
| fungus | 179 | 3.06 (1.75) | 4.68 (2.33) | 4.06 (1.94) |
| funny | 1599 | 8.56 (0.85) | 7.00 (1.86) | 6.15 (1.92) |
| fur | 180 | 4.51 (1.88) | 4.18 (2.44) | 4.32 (1.97) |
| furious | 1600 | 1.96 (1.43) | 7.64 (2.13) | 5.32 (2.93) |
| furnace | 1601 | 4.81 (1.49) | 4.81 (1.86) | 4.97 (1.12) |
| furniture | 1602 | 5.93 (1.68) | 4.17 (2.42) | 5.52 (1.45) |
| fury | 1603 | 3.10 (1.82) | 6.82 (2.23) | 4.29 (2.37) |
| fuse | 1604 | 5.45 (1.24) | 4.97 (2.01) | 5.52 (1.35) |
| future | 1605 | 6.71 (2.12) | 6.48 (2.23) | 4.89 (2.56) |
| gadget | 1606 | 5.97 (1.48) | 4.96 (1.69) | 5.71 (1.72) |
| gaiety | 1607 | 6.00 (1.41) | 4.96 (2.03) | 5.32 (1.63) |
| gain | 1608 | 7.17 (1.32) | 5.63 (1.67) | 6.37 (1.87) |
| galaxy | 1609 | 6.21 (1.26) | 5.96 (1.71) | 4.29 (2.49) |
| gallery | 1610 | 6.03 (2.01) | 4.07 (2.41) | 4.73 (1.87) |
| gallon | 1611 | 5.03 (1.47) | 4.63 (1.65) | 4.83 (1.39) |
| game | 760 | 6.98 (1.97) | 5.89 (2.37) | 5.70 (1.65) |
| gang | 1612 | 2.59 (1.42) | 6.52 (2.49) | 3.33 (2.45) |
| gangrene | 181 | 2.28 (1.91) | 5.70 (2.96) | 3.36 (2.34) |
| garbage | 182 | 2.98 (1.96) | 5.04 (2.5) | 4.24 (2.02) |
| garden | 761 | 6.71 (1.74) | 4.39 (2.35) | 6.02 (1.71) |
| garlic | 1613 | 5.38 (2.29) | 4.45 (2.2) | 5.34 (1.74) |
| garment | 762 | 6.07 (1.61) | 4.49 (2.5) | 5.30 (1.96) |
| garter | 534 | 6.22 (1.59) | 5.47 (2.15) | 5.82 (1.62) |
| gas | 1614 | 4.43 (1.77) | 5.20 (1.88) | 4.60 (2.28) |
| gate | 1615 | 5.52 (1.15) | 4.52 (1.92) | 4.73 (2.16) |
| gem | 1616 | 6.65 (1.74) | 5.71 (1.99) | 5.35 (1.72) |
| gender | 763 | 5.73 (1.55) | 4.38 (2.13) | 5.60 (1.84) |
| genius | 1617 | 7.39 (1.45) | 6.11 (1.83) | 6.39 (1.99) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| gentle | 183 | 7.31 (1.3) | 3.21 (2.57) | 5.10 (2.16) |
| germ | 1618 | 3.35 (2) | 5.62 (2.33) | 4.58 (2.39) |
| germs | 764 | 2.86 (1.39) | 4.49 (2.24) | 3.79 (1.59) |
| ghost | 1619 | 4.42 (1.96) | 6.19 (2.23) | 3.55 (1.71) |
| gift | 184 | 7.77 (2.24) | 6.14 (2.76) | 5.52 (2.54) |
| giggle | 1620 | 8.06 (1.08) | 6.25 (2.13) | 6.31 (1.64) |
| giraffe | 1621 | 6.64 (1.42) | 5.00 (2.26) | 5.04 (1.4) |
| girl | 185 | 6.87 (1.64) | 4.29 (2.69) | 5.80 (2.16) |
| give | 1622 | 7.13 (1.38) | 5.33 (1.88) | 6.27 (1.82) |
| glacier | 186 | 5.50 (1.25) | 4.24 (2.29) | 4.92 (2.12) |
| glad | 1623 | 7.77 (1.22) | 5.70 (2.17) | 6.53 (1.5) |
| glamour | 187 | 6.76 (1.6) | 4.68 (2.23) | 5.76 (2.49) |
| glance | 1624 | 5.53 (1.17) | 5.10 (1.79) | 5.07 (1.56) |
| gland | 1625 | 4.83 (1.47) | 4.18 (2.18) | 4.79 (1.2) |
| glass | 765 | 4.75 (1.38) | 4.27 (2.07) | 5.00 (1.46) |
| glasses | 1626 | 5.93 (1.48) | 4.36 (1.85) | 5.32 (1.33) |
| glaze | 1627 | 6.80 (1.24) | 5.10 (2.02) | 5.30 (1.49) |
| glide | 1628 | 6.38 (1.32) | 4.82 (2.51) | 5.89 (2.04) |
| gloat | 1629 | 4.30 (2.11) | 4.52 (2.33) | 5.41 (1.78) |
| gloom | 188 | 1.88 (1.23) | 3.83 (2.33) | 3.55 (2.07) |
| glory | 189 | 7.55 (1.68) | 6.02 (2.71) | 6.85 (2.23) |
| gloss | 1630 | 6.00 (1.58) | 4.71 (1.72) | 4.89 (1.52) |
| gnaw | 1631 | 3.73 (1.8) | 4.40 (2.21) | 4.57 (1.87) |
| goal | 1632 | 7.12 (1.31) | 6.44 (1.96) | 6.52 (2.16) |
| goat | 1633 | 5.26 (1.75) | 4.07 (1.84) | 5.47 (1.8) |
| god | 190 | 8.15 (1.27) | 5.95 (2.84) | 5.88 (2.89) |
| gold | 191 | 7.54 (1.63) | 5.76 (2.79) | 5.85 (2.46) |
| golf | 1634 | 4.83 (2.63) | 3.90 (2.52) | 4.83 (2.35) |
| golfer | 535 | 5.61 (1.93) | 3.73 (2.26) | 5.55 (1.79) |
| good | 766 | 7.47 (1.45) | 5.43 (2.85) | 6.41 (2.05) |
| goodness | 1635 | 7.41 (1.6) | 4.87 (2.45) | 6.29 (1.47) |
| gorilla | 1636 | 5.56 (1.95) | 5.52 (2.42) | 4.15 (2.6) |
| gossip | 767 | 3.48 (2.33) | 5.74 (2.38) | 3.57 (2.26) |
| govern | 1637 | 4.50 (1.43) | 4.53 (1.41) | 4.33 (1.73) |
| government | 1638 | 4.28 (1.89) | 5.25 (2) | 3.62 (2.08) |

| Description | Word No. | Valence Mean(SD) | | Arousal Mean(SD) | | Dominance Mean (SD) | |
|-------------|----------|------------------|--------|------------------|--------|---------------------|--------|
| grace | 1639 | 7.00 | (1.59) | 4.12 | (2.12) | 5.62 | (2.02) |
| graduate | 192 | 8.19 | (1.13) | 7.25 | (2.25) | 6.94 | (2.44) |
| grafitti | 1640 | 4.82 | (2.11) | 5.32 | (1.83) | 5.11 | (2.13) |
| grapes | 1641 | 6.61 | (2.25) | 4.67 | (2.56) | 5.40 | (2.19) |
| grass | 768 | 6.12 | (1.44) | 4.14 | (2.11) | 5.44 | (1.36) |
| grateful | 193 | 7.37 | (0.97) | 4.58 | (2.14) | 6.18 | (1.77) |
| grave | 1642 | 2.18 | (1.54) | 4.78 | (2.85) | 2.52 | (1.89) |
| gravy | 1643 | 6.00 | (1.74) | 4.63 | (1.96) | 5.43 | (1.48) |
| greed | 769 | 3.51 | (1.93) | 4.71 | (2.26) | 4.88 | (2.03) |
| green | 194 | 6.18 | (2.05) | 4.28 | (2.46) | 4.82 | (2.05) |
| greet | 770 | 7.00 | (1.52) | 5.27 | (2.31) | 5.95 | (2.07) |
| grenade | 771 | 3.60 | (1.88) | 5.70 | (2.52) | 4.29 | (2.5) |
| greyhound | 1644 | 5.42 | (1.78) | 4.39 | (1.65) | 4.81 | (1.87) |
| grief | 195 | 1.69 | (1.04) | 4.78 | (2.84) | 3.50 | (2.35) |
| grieve | 1645 | 2.27 | (1.36) | 5.60 | (2.39) | 2.90 | (1.93) |
| grime | 772 | 3.37 | (1.34) | 3.98 | (2.29) | 4.47 | (1.28) |
| grin | 773 | 7.40 | (1.87) | 5.27 | (2.64) | 6.00 | (1.86) |
| grind | 1646 | 5.08 | (1.92) | 5.27 | (2.27) | 5.12 | (1.56) |
| gripe | 774 | 3.14 | (1.56) | 5.00 | (2.19) | 4.67 | (1.79) |
| groceries | 1647 | 5.90 | (1.75) | 3.77 | (2.25) | 6.23 | (2.16) |
| groom | 1648 | 6.53 | (1.8) | 5.23 | (2.34) | 5.90 | (1.95) |
| gross | 1649 | 3.57 | (1.93) | 4.82 | (2.34) | 4.36 | (1.89) |
| ground | 1650 | 5.36 | (0.95) | 4.14 | (1.78) | 5.14 | (1.65) |
| grove | 1651 | 5.60 | (1.28) | 4.47 | (1.48) | 5.23 | (0.97) |
| grovel | 1652 | 3.50 | (1.77) | 4.46 | (2.35) | 4.00 | (2.51) |
| growl | 1653 | 4.11 | (2.06) | 5.93 | (1.9) | 5.52 | (2.74) |
| guaranteed | 1654 | 7.14 | (1.94) | 4.93 | (2.64) | 6.39 | (2.11) |
| guillotine | 196 | 2.48 | (2.11) | 6.56 | (2.54) | 4.64 | (2.63) |
| guilt | 1655 | 2.14 | (1.33) | 5.36 | (2.95) | 2.96 | (1.83) |
| guilty | 197 | 2.63 | (1.98) | 6.04 | (2.76) | 3.09 | (2.22) |
| guitar | 1656 | 6.86 | (1.66) | 5.82 | (2.52) | 5.29 | (1.8) |
| gulf | 1657 | 5.90 | (1.76) | 4.93 | (1.73) | 5.48 | (1.6) |
| gun | 593 | 3.47 | (2.48) | 7.02 | (1.84) | 3.53 | (2.72) |
| guzzle | 1658 | 4.77 | (1.72) | 5.23 | (1.92) | 4.77 | (1.57) |
| gym | 1659 | 6.21 | (1.87) | 6.14 | (1.96) | 5.89 | (1.95) |

| Description | Word No. | Valence Mean(SD) | | Arousal Mean(SD) | | Dominance Mean (SD) | |
|-------------|----------|------------------|--------|------------------|--------|---------------------|--------|
| gymnast | 515 | 6.35 | (1.79) | 5.02 | (2.2) | 5.31 | (1.79) |
| habit | 775 | 4.11 | (1.77) | 3.95 | (2.11) | 4.30 | (1.79) |
| hair | 1660 | 5.56 | (1.95) | 4.48 | (2.36) | 5.41 | (2.06) |
| hairdryer | 561 | 4.84 | (0.84) | 3.71 | (1.75) | 5.57 | (1.27) |
| hairpin | 776 | 5.26 | (1.45) | 3.27 | (2.41) | 5.05 | (1.32) |
| ham | 1661 | 5.31 | (1.93) | 4.07 | (1.94) | 4.96 | (1.32) |
| hamburger | 777 | 6.27 | (1.5) | 4.55 | (2.14) | 5.32 | (1.21) |
| hammer | 198 | 4.88 | (1.16) | 4.58 | (2.02) | 4.75 | (1.88) |
| hand | 778 | 5.95 | (1.38) | 4.40 | (2.07) | 5.35 | (1.49) |
| handicap | 779 | 3.29 | (1.69) | 3.81 | (2.27) | 4.00 | (2.24) |
| handicapped | 1662 | 3.23 | (1.56) | 4.55 | (1.89) | 3.40 | (1.85) |
| hands | 1663 | 5.93 | (1.51) | 5.21 | (1.87) | 5.74 | (1.26) |
| handsome | 199 | 7.93 | (1.47) | 5.95 | (2.73) | 5.19 | (2.22) |
| hang | 1664 | 4.33 | (2.01) | 5.40 | (2.42) | 4.33 | (1.79) |
| haphazard | 780 | 4.02 | (1.41) | 4.07 | (2.18) | 4.29 | (1.67) |
| happiness | 1665 | 7.96 | (1.4) | 6.56 | (2.21) | 6.70 | (1.64) |
| happy | 200 | 8.21 | (1.82) | 6.49 | (2.77) | 6.63 | (2.43) |
| harass | 1666 | 2.48 | (1.18) | 5.64 | (2.28) | 3.93 | (2.62) |
| harassment | 1667 | 2.41 | (1.62) | 5.75 | (2.55) | 3.16 | (2.08) |
| hard | 781 | 5.22 | (1.82) | 5.12 | (2.19) | 5.59 | (1.63) |
| hardship | 782 | 2.45 | (1.61) | 4.76 | (2.55) | 4.22 | (2.4) |
| harp | 1668 | 6.37 | (1.61) | 4.41 | (2.5) | 4.86 | (1.71) |
| harsh | 1669 | 2.93 | (1.64) | 5.60 | (1.85) | 4.83 | (2.28) |
| harvest | 1670 | 5.74 | (1.55) | 4.37 | (1.79) | 5.76 | (1.5) |
| haste | 1671 | 4.15 | (1.7) | 5.04 | (2.49) | 4.19 | (1.86) |
| hasten | 1672 | 4.90 | (0.99) | 4.90 | (1.95) | 4.67 | (1.52) |
| hat | 783 | 5.46 | (1.36) | 4.10 | (2) | 5.39 | (1.43) |
| hate | 201 | 2.12 | (1.72) | 6.95 | (2.56) | 5.05 | (2.95) |
| hatred | 202 | 1.98 | (1.92) | 6.66 | (2.56) | 4.30 | (2.76) |
| haunt | 1673 | 3.48 | (1.96) | 6.60 | (1.94) | 3.72 | (1.9) |
| haven | 1674 | 6.97 | (1.92) | 4.00 | (2.38) | 5.37 | (2.09) |
| hawk | 536 | 5.88 | (1.62) | 4.39 | (2.29) | 5.50 | (1.69) |
| hay | 784 | 5.24 | (1.24) | 3.95 | (2.58) | 5.37 | (1.64) |
| head | 1675 | 6.63 | (1.43) | 5.70 | (2.2) | 6.03 | (1.56) |
| headache | 203 | 2.02 | (1.06) | 5.07 | (2.74) | 3.60 | (1.98) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| headlight | 785 | 5.24 (1.51) | 3.81 (2.22) | 4.88 (1.47) |
| heal | 786 | 7.09 (1.46) | 4.77 (2.23) | 5.79 (1.8) |
| health | 204 | 6.81 (1.88) | 5.13 (2.35) | 5.83 (1.91) |
| heart | 787 | 7.39 (1.53) | 6.34 (2.25) | 5.49 (2.11) |
| heat | 1676 | 4.30 (1.95) | 5.70 (2.02) | 4.17 (1.86) |
| heaven | 205 | 7.30 (2.39) | 5.61 (3.2) | 6.15 (2.56) |
| heavy | 1677 | 3.69 (1.38) | 4.58 (1.93) | 4.10 (1.62) |
| heir | 1678 | 6.57 (1.55) | 5.22 (1.95) | 5.78 (1.95) |
| helium | 1679 | 5.29 (2.17) | 4.71 (2.55) | 4.85 (1.96) |
| hell | 788 | 2.24 (1.62) | 5.38 (2.62) | 3.24 (2.36) |
| helpless | 206 | 2.20 (1.42) | 5.34 (2.52) | 2.27 (1.83) |
| hen | 1680 | 5.10 (0.98) | 3.79 (1.9) | 5.10 (1.63) |
| herbal | 1681 | 5.92 (1.29) | 3.62 (1.97) | 5.29 (1) |
| herd | 1682 | 5.00 (1.29) | 4.50 (1.8) | 4.73 (1.74) |
| hero | 1683 | 7.59 (1.72) | 6.41 (1.8) | 5.90 (1.95) |
| heroin | 789 | 4.36 (2.73) | 5.11 (2.72) | 4.80 (2.54) |
| herring | 1684 | 5.43 (1.25) | 4.37 (1.71) | 5.20 (1.16) |
| hide | 207 | 4.32 (1.91) | 5.28 (2.51) | 3.40 (2.12) |
| high | 1685 | 6.62 (1.98) | 5.56 (2.09) | 5.38 (1.84) |
| highway | 562 | 5.92 (1.72) | 5.16 (2.44) | 5.66 (1.81) |
| hiker | 1686 | 5.79 (1.74) | 5.00 (2.16) | 4.68 (2.29) |
| hill | 1687 | 5.32 (1.41) | 3.75 (2.11) | 5.00 (1.64) |
| hinder | 790 | 3.81 (1.42) | 4.12 (2.01) | 4.21 (1.54) |
| hippotamus | 1688 | 6.41 (1.62) | 4.36 (2.15) | 4.93 (1.56) |
| hire | 1689 | 5.77 (1.67) | 5.63 (2.04) | 4.80 (1.79) |
| history | 208 | 5.24 (2.01) | 3.93 (2.29) | 4.83 (2.08) |
| hit | 594 | 4.33 (2.35) | 5.73 (2.09) | 4.88 (2.01) |
| hitch | 1690 | 5.03 (1.21) | 4.25 (2.17) | 5.00 (1.15) |
| hive | 1691 | 3.18 (1.52) | 5.82 (2.02) | 4.21 (1.95) |
| hobby | 1692 | 7.24 (1.48) | 5.36 (2.59) | 7.24 (1.83) |
| hockey | 1693 | 5.39 (1.45) | 5.00 (2.21) | 5.18 (1.49) |
| holiday | 791 | 7.55 (2.14) | 6.59 (2.73) | 6.30 (2.17) |
| holy | 1694 | 6.36 (1.93) | 5.36 (2.15) | 4.68 (2.25) |
| home | 209 | 7.91 (1.63) | 4.21 (2.94) | 5.90 (2.3) |
| homeless | 1695 | 2.06 (1.13) | 4.59 (2.28) | 3.31 (1.99) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| honest | 210 | 7.70 (1.43) | 5.32 (1.92) | 6.24 (2.13) |
| honesty | 1696 | 7.88 (1.24) | 5.25 (2.45) | 6.88 (1.5) |
| honey | 792 | 6.73 (1.7) | 4.51 (2.25) | 5.44 (1.47) |
| honor | 211 | 7.66 (1.24) | 5.90 (1.83) | 6.70 (2.04) |
| hooker | 793 | 3.34 (2.31) | 4.93 (2.82) | 4.73 (2.48) |
| hope | 794 | 7.05 (1.96) | 5.44 (2.47) | 5.52 (2.2) |
| hopeful | 212 | 7.10 (1.46) | 5.78 (2.09) | 5.41 (1.92) |
| horrible | 1697 | 2.28 (1.98) | 5.75 (2.41) | 3.04 (1.95) |
| horror | 213 | 2.76 (2.25) | 7.21 (2.14) | 4.63 (2.7) |
| horse | 214 | 5.89 (1.55) | 3.89 (2.17) | 4.67 (1.6) |
| hose | 1698 | 5.25 (1.6) | 4.82 (2.09) | 5.36 (2.02) |
| hospital | 215 | 5.04 (2.45) | 5.98 (2.54) | 4.69 (2.16) |
| hostage | 216 | 2.20 (1.8) | 6.76 (2.63) | 2.83 (2.32) |
| hostile | 217 | 2.73 (1.5) | 6.44 (2.28) | 4.85 (2.58) |
| hotel | 795 | 6.00 (1.77) | 4.80 (2.53) | 5.12 (1.84) |
| hour | 1699 | 5.10 (1.23) | 4.21 (1.77) | 4.25 (1.71) |
| house | 563 | 7.26 (1.72) | 4.56 (2.41) | 6.08 (2.12) |
| howl | 1700 | 4.90 (1.88) | 5.27 (2.48) | 4.43 (1.87) |
| hub | 1701 | 5.52 (1.58) | 4.00 (2.11) | 5.07 (1.71) |
| hug | 218 | 8.00 (1.55) | 5.35 (2.76) | 5.79 (2.41) |
| huge | 1702 | 5.39 (1.97) | 5.75 (2.14) | 5.68 (2.5) |
| humane | 796 | 6.89 (1.7) | 4.50 (1.91) | 5.70 (1.91) |
| humble | 219 | 5.86 (1.42) | 3.74 (2.33) | 4.76 (2.25) |
| humiliate | 797 | 2.24 (1.34) | 6.14 (2.42) | 2.60 (1.94) |
| humiliation | 1703 | 1.90 (1.27) | 6.97 (1.97) | 2.20 (1.42) |
| humor | 220 | 8.56 (0.81) | 5.50 (2.91) | 6.08 (2.14) |
| hunger | 1704 | 2.76 (1.38) | 5.36 (2.31) | 3.93 (1.65) |
| hungry | 221 | 3.58 (2.01) | 5.13 (2.44) | 4.68 (2.05) |
| hunter | 1705 | 4.90 (2.4) | 5.86 (2.4) | 5.70 (2.48) |
| hurl | 1706 | 3.12 (1.72) | 5.40 (1.76) | 4.36 (2.14) |
| hurricane | 798 | 3.34 (2.12) | 6.83 (2.06) | 3.07 (2.18) |
| hurt | 222 | 1.90 (1.26) | 5.85 (2.49) | 3.33 (2.22) |
| hydrant | 564 | 5.02 (0.93) | 3.71 (1.75) | 5.53 (1.3) |
| hymn | 1707 | 6.13 (2.08) | 4.33 (2.73) | 5.30 (1.82) |
| hysterical | 1708 | 5.29 (3.31) | 7.36 (2.04) | 4.18 (2.39) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| ice | 1709 | 5.92 (1.55) | 4.67 (2.28) | 5.04 (1.4) |
| icebox | 799 | 4.95 (1) | 4.17 (2.11) | 5.05 (1.05) |
| idea | 800 | 7.00 (1.34) | 5.86 (1.81) | 6.26 (2) |
| identity | 801 | 6.57 (1.99) | 4.95 (2.24) | 6.40 (1.89) |
| idiot | 223 | 3.16 (1.91) | 4.21 (2.47) | 3.18 (2.13) |
| idol | 802 | 6.12 (1.86) | 4.95 (2.14) | 5.37 (2.17) |
| ignite | 1710 | 6.16 (2.03) | 6.27 (1.87) | 5.87 (1.76) |
| ignorance | 803 | 3.07 (2.25) | 4.39 (2.49) | 4.41 (2.38) |
| ignore | 1711 | 3.15 (1.96) | 4.67 (2.37) | 3.56 (2.45) |
| illness | 804 | 2.48 (1.4) | 4.71 (2.24) | 3.21 (1.85) |
| imagine | 805 | 7.32 (1.52) | 5.98 (2.14) | 7.07 (1.99) |
| immature | 806 | 3.39 (1.7) | 4.15 (1.96) | 4.85 (2.2) |
| immoral | 807 | 3.50 (2.16) | 4.98 (2.48) | 4.66 (2.33) |
| impair | 808 | 3.18 (1.86) | 4.04 (2.14) | 4.09 (2.18) |
| impart | 1712 | 4.97 (1.12) | 3.86 (2.03) | 5.45 (1.59) |
| impatient | 1713 | 3.63 (1.9) | 5.57 (2.47) | 4.23 (2.25) |
| impede | 1714 | 4.19 (1.74) | 4.90 (1.99) | 3.90 (1.63) |
| impose | 1715 | 3.66 (1.59) | 5.28 (1.79) | 4.45 (2.06) |
| impotent | 224 | 2.81 (1.92) | 4.57 (2.59) | 3.43 (2.43) |
| impressed | 225 | 7.33 (1.84) | 5.42 (2.65) | 5.51 (2.21) |
| improve | 226 | 7.65 (1.16) | 5.69 (2.15) | 6.08 (2.25) |
| incentive | 809 | 7.00 (1.72) | 5.69 (2.45) | 5.93 (2.02) |
| incubator | 1716 | 4.17 (1.98) | 4.86 (1.94) | 4.17 (1.93) |
| indict | 1717 | 4.29 (1.56) | 4.93 (2.21) | 4.36 (2.09) |
| indifferent | 810 | 4.61 (1.28) | 3.18 (1.85) | 4.84 (1.67) |
| industry | 227 | 5.30 (1.61) | 4.47 (2.43) | 4.91 (2.04) |
| infant | 811 | 6.95 (2.08) | 5.05 (2.66) | 5.67 (2.48) |
| infatuated | 1718 | 5.77 (1.77) | 6.27 (2.09) | 4.77 (1.9) |
| infatuation | 516 | 6.73 (2.08) | 7.02 (1.87) | 4.90 (2.28) |
| infect | 1719 | 2.42 (1.17) | 5.38 (2.25) | 3.42 (1.96) |
| infection | 228 | 1.66 (1.34) | 5.03 (2.77) | 3.61 (2.64) |
| inferior | 812 | 3.07 (1.57) | 3.83 (2.05) | 2.78 (2.08) |
| infest | 1720 | 2.85 (1.41) | 5.19 (1.9) | 3.62 (1.65) |
| inform | 1721 | 5.92 (0.95) | 4.57 (2.11) | 5.26 (1.66) |
| ingest | 1722 | 5.00 (1.64) | 5.27 (1.74) | 5.03 (1.85) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|--------------|----------|------------------|------------------|---------------------|
| inhabitant | 813 | 5.05 (1.34) | 3.95 (1.97) | 5.37 (1.43) |
| inject | 1723 | 3.34 (1.74) | 5.54 (2.43) | 3.89 (2.1) |
| injection | 1724 | 3.03 (1.59) | 6.55 (1.8) | 3.48 (1.81) |
| injure | 1725 | 2.55 (1.89) | 5.53 (2.27) | 3.86 (2.33) |
| injury | 595 | 2.49 (1.76) | 5.69 (2.06) | 3.57 (1.62) |
| ink | 229 | 5.05 (0.81) | 3.84 (1.88) | 4.61 (2.13) |
| innocence | 1726 | 6.54 (1.95) | 4.79 (2.42) | 5.75 (2.29) |
| innocent | 814 | 6.51 (1.34) | 4.21 (1.99) | 5.28 (2.08) |
| insane | 815 | 2.85 (1.94) | 5.83 (2.45) | 4.12 (2.23) |
| insect | 816 | 4.07 (2.16) | 4.07 (2.46) | 4.56 (2.47) |
| insecure | 230 | 2.36 (1.33) | 5.56 (2.34) | 2.33 (1.95) |
| insist | 1727 | 4.64 (1.95) | 5.18 (2.2) | 4.93 (2.02) |
| insolent | 231 | 4.35 (1.76) | 5.38 (2.37) | 4.50 (2.06) |
| inspire | 232 | 6.97 (1.91) | 5.00 (2.53) | 6.34 (2.11) |
| inspired | 233 | 7.15 (1.85) | 6.02 (2.67) | 6.67 (2.31) |
| instrument | 1728 | 6.68 (1.74) | 5.32 (2.48) | 5.71 (2.03) |
| insult | 817 | 2.29 (1.33) | 6.00 (2.46) | 3.62 (2.05) |
| intellect | 818 | 6.82 (1.96) | 4.75 (2.5) | 6.30 (1.98) |
| intelligence | 1729 | 7.93 (1.36) | 6.21 (2.04) | 6.25 (2.17) |
| intent | 1730 | 5.00 (1.41) | 4.73 (1.66) | 4.96 (1.71) |
| intercourse | 819 | 7.36 (1.57) | 7.00 (2.07) | 6.40 (1.78) |
| interest | 234 | 6.97 (1.54) | 5.66 (2.26) | 5.88 (1.78) |
| interested | 1731 | 6.58 (1.45) | 5.42 (2.37) | 5.95 (1.68) |
| intimate | 821 | 7.61 (1.51) | 6.98 (2.21) | 5.86 (2.29) |
| intoxicated | 1732 | 5.00 (2.54) | 6.19 (2.18) | 4.28 (2.4) |
| intruder | 822 | 2.77 (2.32) | 6.86 (2.41) | 4.00 (2.68) |
| invade | 1733 | 3.41 (1.66) | 6.00 (2.42) | 4.25 (2.68) |
| invader | 823 | 3.05 (2.01) | 5.50 (2.4) | 4.00 (2.6) |
| invent | 1734 | 6.73 (2.07) | 6.20 (2.04) | 6.47 (2.26) |
| invest | 824 | 5.93 (2.1) | 5.12 (2.42) | 5.88 (1.95) |
| iron | 565 | 4.90 (1.02) | 3.76 (2.06) | 5.10 (1.27) |
| irony | 1735 | 6.17 (1.67) | 4.66 (2.21) | 4.83 (1.79) |
| irritate | 235 | 3.11 (1.67) | 5.76 (2.15) | 5.03 (2.05) |
| irritated | 1736 | 2.23 (1.55) | 6.13 (2.24) | 4.37 (1.97) |
| island | 1737 | 7.59 (1.8) | 6.14 (2.18) | 6.21 (1.78) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| isolation | 1738 | 2.17 (1.6) | 4.70 (2.67) | 2.60 (1.65) |
| issue | 1739 | 4.13 (1.57) | 5.40 (2.24) | 4.63 (1.87) |
| item | 825 | 5.26 (0.86) | 3.24 (2.08) | 5.26 (1.67) |
| ivy | 1740 | 4.11 (1.71) | 5.11 (2.11) | 4.67 (1.84) |
| jaguar | 1741 | 6.62 (1.78) | 5.50 (2.27) | 4.79 (2.15) |
| jail | 236 | 1.95 (1.27) | 5.49 (2.67) | 3.81 (2.71) |
| jar | 1742 | 5.21 (0.56) | 3.75 (2.17) | 5.75 (1.48) |
| jealous | 1743 | 2.86 (1.73) | 6.48 (2.18) | 3.72 (2.3) |
| jealousy | 237 | 2.51 (1.83) | 6.36 (2.66) | 3.80 (2.41) |
| jeans | 1744 | 6.43 (1.77) | 4.74 (2.49) | 5.89 (1.67) |
| jelly | 238 | 5.66 (1.44) | 3.70 (2.29) | 4.53 (1.77) |
| jellyfish | 1745 | 4.76 (2.47) | 6.04 (2.2) | 4.29 (2.05) |
| jeopardy | 1746 | 6.45 (1.57) | 5.18 (2.45) | 4.93 (1.86) |
| jerk | 1747 | 2.86 (1.66) | 5.21 (2.25) | 4.64 (1.93) |
| jet | 1748 | 6.29 (1.7) | 5.89 (2.04) | 4.89 (2.01) |
| jewel | 239 | 7.00 (1.72) | 5.38 (2.54) | 5.59 (2.19) |
| job | 1749 | 5.83 (2.15) | 5.20 (2.23) | 5.70 (1.82) |
| joke | 826 | 8.10 (1.36) | 6.74 (1.84) | 6.15 (1.86) |
| jolly | 827 | 7.41 (1.92) | 5.57 (2.8) | 6.39 (1.72) |
| journal | 828 | 5.14 (1.49) | 4.05 (1.96) | 5.26 (1.42) |
| joy | 240 | 8.60 (0.71) | 7.22 (2.13) | 6.28 (2.15) |
| joyful | 241 | 8.22 (1.22) | 5.98 (2.54) | 6.60 (1.8) |
| judge | 1750 | 4.53 (1.7) | 5.10 (2.02) | 3.67 (1.9) |
| judgment | 1751 | 4.41 (1.78) | 5.78 (1.91) | 4.38 (2.2) |
| jug | 829 | 5.24 (1.65) | 3.88 (2.15) | 5.05 (1.62) |
| jugs | 1752 | 5.65 (1.98) | 5.23 (2.41) | 5.00 (1.6) |
| juice | 1753 | 6.79 (1.88) | 5.69 (1.54) | 5.66 (1.23) |
| jumble | 1754 | 4.41 (1.89) | 5.30 (2.35) | 4.30 (1.98) |
| jungle | 1755 | 5.77 (2.05) | 5.85 (1.49) | 4.81 (1.55) |
| justice | 242 | 7.78 (1.35) | 5.47 (2.54) | 6.47 (2.26) |
| keg | 1756 | 6.21 (2.23) | 5.37 (2.1) | 5.33 (1.92) |
| kerchief | 830 | 5.11 (1.33) | 3.43 (2.08) | 5.25 (1.28) |
| kerosene | 243 | 4.80 (1.59) | 4.34 (2.51) | 4.63 (1.99) |
| ketchup | 831 | 5.60 (1.35) | 4.09 (2.08) | 5.29 (1.81) |
| kettle | 832 | 5.22 (0.91) | 3.22 (2.23) | 5.00 (1.4) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| key | 833 | 5.68 (1.62) | 3.70 (2.18) | 4.98 (2.04) |
| kick | 834 | 4.31 (2.18) | 4.90 (2.35) | 5.50 (1.93) |
| kid | 1757 | 6.42 (1.61) | 5.35 (2.06) | 6.03 (2.14) |
| kidnap | 1758 | 2.62 (1.83) | 6.31 (2.43) | 3.08 (2.59) |
| kidney | 1759 | 4.86 (1.92) | 4.48 (2.29) | 4.22 (1.97) |
| kids | 835 | 6.91 (1.99) | 5.27 (2.36) | 5.07 (2.03) |
| killer | 244 | 1.89 (1.39) | 7.86 (1.89) | 4.54 (3.11) |
| kind | 245 | 7.59 (1.67) | 4.46 (2.55) | 5.95 (1.93) |
| kindness | 246 | 7.82 (1.39) | 4.30 (2.62) | 5.67 (2.63) |
| king | 247 | 7.26 (1.67) | 5.51 (2.77) | 7.38 (2.1) |
| kiss | 248 | 8.26 (1.54) | 7.32 (2.03) | 6.93 (2.28) |
| kitten | 517 | 6.86 (2.13) | 5.08 (2.45) | 6.86 (2.01) |
| knee | 1760 | 5.03 (1.1) | 4.40 (1.67) | 5.20 (1.37) |
| knife | 596 | 3.62 (2.18) | 5.80 (2) | 4.12 (2.18) |
| knitting | 1761 | 4.94 (2.44) | 2.88 (2.27) | 5.41 (2) |
| knob | 1762 | 5.14 (1.19) | 4.00 (1.98) | 5.29 (1.12) |
| knot | 836 | 4.64 (1.36) | 4.07 (2.15) | 4.67 (1.65) |
| know | 1763 | 6.93 (1.72) | 5.77 (1.92) | 6.90 (2.29) |
| knowledge | 249 | 7.58 (1.32) | 5.92 (2.32) | 6.78 (2.41) |
| label | 1764 | 4.36 (1.08) | 3.96 (1.99) | 4.83 (1.76) |
| lack | 1765 | 3.21 (1.37) | 4.21 (2.47) | 4.11 (1.97) |
| lad | 1766 | 5.44 (1.13) | 4.06 (1.54) | 5.28 (1.37) |
| ladder | 1767 | 5.06 (1.09) | 4.97 (2.12) | 5.10 (1.45) |
| lake | 250 | 6.82 (1.54) | 3.95 (2.44) | 4.90 (2.1) |
| lamb | 837 | 5.89 (1.73) | 3.36 (2.18) | 4.91 (1.96) |
| lame | 1768 | 3.66 (1.82) | 3.69 (2) | 4.83 (1.63) |
| lamp | 838 | 5.41 (1) | 3.80 (2.12) | 5.27 (1.61) |
| land | 1769 | 5.66 (1.42) | 4.16 (2.11) | 5.53 (1.59) |
| lane | 1770 | 5.39 (1.42) | 4.64 (1.79) | 5.54 (1.2) |
| lantern | 839 | 5.57 (1.19) | 4.05 (2.28) | 5.07 (1.82) |
| laugh | 1771 | 8.36 (1.13) | 7.39 (2.01) | 6.64 (1.87) |
| laughter | 251 | 8.45 (1.08) | 6.75 (2.5) | 6.45 (2.45) |
| lava | 1772 | 4.43 (2.15) | 5.57 (2.64) | 3.54 (1.99) |
| lavish | 840 | 6.21 (2.03) | 4.93 (2.4) | 5.64 (1.61) |
| law | 1773 | 5.10 (2.37) | 4.25 (2.43) | 4.11 (2.08) |

| Description | Word No. | Valence Mean(SD) | | Arousal Mean(SD) | | Dominance Mean (SD) | |
|-------------|----------|------------------|--------|------------------|--------|---------------------|--------|
| lawn | 841 | 5.24 | (0.86) | 4.00 | (1.79) | 5.37 | (1.11) |
| lawsuit | 842 | 3.37 | (2) | 4.93 | (2.44) | 3.92 | (2.02) |
| lawyer | 1774 | 5.70 | (2.27) | 5.85 | (2.61) | 4.89 | (2.81) |
| lazy | 843 | 4.38 | (2.02) | 2.65 | (2.06) | 4.07 | (1.93) |
| leader | 844 | 7.63 | (1.59) | 6.27 | (2.18) | 7.88 | (1.6) |
| leak | 1775 | 3.07 | (1.41) | 4.63 | (1.96) | 3.87 | (1.68) |
| learn | 252 | 7.15 | (1.49) | 5.39 | (2.22) | 6.34 | (2.17) |
| lease | 1776 | 4.45 | (1.36) | 4.70 | (1.7) | 4.70 | (1.56) |
| leave | 1777 | 3.83 | (1.44) | 4.36 | (1.91) | 4.36 | (2) |
| leaves | 1778 | 6.07 | (1.93) | 3.80 | (2.44) | 4.80 | (2.06) |
| ledge | 1779 | 4.13 | (1.31) | 5.35 | (1.96) | 4.10 | (1.37) |
| leg | 1780 | 5.71 | (1.12) | 4.50 | (2.12) | 5.36 | (1.66) |
| legend | 845 | 6.39 | (1.34) | 4.88 | (1.76) | 5.54 | (1.64) |
| legs | 1781 | 5.93 | (1.36) | 4.69 | (2.35) | 5.97 | (1.67) |
| leisurely | 253 | 6.88 | (1.81) | 3.80 | (2.38) | 5.15 | (1.9) |
| leopard | 1782 | 5.97 | (1.69) | 5.57 | (2.18) | 4.57 | (1.7) |
| leprosy | 254 | 2.09 | (1.4) | 6.29 | (2.23) | 4.00 | (2.3) |
| lesbian | 597 | 4.67 | (2.45) | 5.12 | (2.27) | 5.35 | (2.2) |
| lesson | 1783 | 5.07 | (1.63) | 4.04 | (1.75) | 5.04 | (1.48) |
| letter | 846 | 6.61 | (1.59) | 4.90 | (2.37) | 5.73 | (1.48) |
| liar | 1784 | 2.41 | (1.64) | 6.38 | (2.47) | 3.34 | (2.42) |
| liberty | 255 | 7.98 | (1.22) | 5.60 | (2.65) | 6.29 | (2.44) |
| lice | 256 | 2.31 | (1.78) | 5.00 | (2.26) | 3.95 | (2.29) |
| lick | 1785 | 6.27 | (1.51) | 5.70 | (2.12) | 5.90 | (1.49) |
| lid | 1786 | 5.03 | (0.5) | 3.66 | (1.88) | 5.14 | (1.62) |
| lie | 257 | 2.79 | (1.92) | 5.96 | (2.63) | 3.30 | (2.42) |
| life | 258 | 7.27 | (1.88) | 6.02 | (2.62) | 5.72 | (2.51) |
| lightbulb | 566 | 5.61 | (1.28) | 4.10 | (2.02) | 5.82 | (1.56) |
| lighthouse | 847 | 5.89 | (2.08) | 4.41 | (2.44) | 5.25 | (2.02) |
| lightning | 598 | 4.57 | (2.66) | 6.61 | (1.77) | 3.67 | (2.19) |
| like | 1787 | 7.52 | (1.72) | 6.63 | (2.2) | 5.41 | (2.69) |
| limb | 1788 | 5.03 | (0.81) | 4.53 | (1.53) | 5.30 | (1.12) |
| limber | 848 | 5.68 | (1.49) | 4.57 | (2.26) | 5.34 | (1.84) |
| limp | 1789 | 3.71 | (1.88) | 4.29 | (1.78) | 4.43 | (2.18) |
| linger | 1790 | 4.44 | (1.39) | 4.92 | (1.63) | 5.12 | (1.69) |

| Description | Word No. | Valence Mean(SD) | | Arousal Mean(SD) | | Dominance Mean (SD) | |
|-------------|----------|------------------|--------|------------------|--------|---------------------|--------|
| lion | 518 | 5.57 | (1.99) | 6.20 | (2.16) | 4.12 | (2.33) |
| lips | 1791 | 7.13 | (1.5) | 6.27 | (1.87) | 5.60 | (2.11) |
| liquor | 1792 | 4.93 | (2.43) | 5.66 | (2.19) | 4.86 | (2.33) |
| listen | 1793 | 5.93 | (1.16) | 4.45 | (1.7) | 5.76 | (1.46) |
| listless | 259 | 4.12 | (1.73) | 4.10 | (2.31) | 4.14 | (1.73) |
| liter | 1794 | 5.00 | (1.74) | 4.33 | (2.18) | 5.37 | (1.84) |
| litter | 1795 | 3.96 | (2.22) | 4.77 | (1.95) | 4.85 | (1.76) |
| lively | 849 | 7.20 | (1.97) | 5.53 | (2.9) | 6.09 | (1.95) |
| lizard | 1796 | 5.23 | (1.83) | 5.13 | (1.57) | 4.97 | (1.5) |
| location | 1797 | 5.36 | (0.68) | 4.11 | (1.83) | 5.39 | (1.34) |
| locker | 850 | 5.19 | (1.31) | 3.38 | (2.13) | 5.36 | (1.87) |
| loneliness | 260 | 1.61 | (1.02) | 4.56 | (2.97) | 2.51 | (2.27) |
| lonely | 261 | 2.17 | (1.76) | 4.51 | (2.68) | 2.95 | (2.12) |
| loosen | 1798 | 5.59 | (1.76) | 4.50 | (2.41) | 6.11 | (2.11) |
| lose | 1799 | 2.81 | (1.64) | 4.93 | (2.42) | 3.33 | (2.17) |
| loser | 851 | 2.25 | (1.48) | 4.95 | (2.57) | 3.02 | (2.17) |
| loss | 1800 | 1.89 | (1.25) | 5.78 | (2.95) | 2.38 | (2.3) |
| lost | 852 | 2.82 | (1.83) | 5.82 | (2.62) | 2.86 | (1.64) |
| lotion | 1801 | 5.90 | (2.04) | 5.52 | (2.21) | 5.70 | (1.86) |
| lottery | 853 | 6.57 | (2.04) | 5.36 | (2.45) | 4.81 | (2.11) |
| loud | 1802 | 4.77 | (1.73) | 6.10 | (1.6) | 5.07 | (1.44) |
| lounge | 1803 | 6.60 | (1.38) | 3.97 | (2.33) | 5.90 | (1.54) |
| louse | 262 | 2.81 | (1.92) | 4.98 | (2.03) | 3.57 | (2.26) |
| love | 263 | 8.72 | (0.7) | 6.44 | (3.35) | 7.11 | (2.56) |
| loved | 264 | 8.64 | (0.71) | 6.38 | (2.68) | 6.62 | (2.53) |
| loving | 1804 | 8.28 | (0.88) | 6.21 | (2.45) | 6.29 | (1.9) |
| lower | 1805 | 4.00 | (1.58) | 4.36 | (1.91) | 4.18 | (1.63) |
| loyal | 265 | 7.55 | (1.9) | 5.16 | (2.42) | 6.91 | (2.23) |
| luck | 1806 | 7.41 | (1.46) | 6.45 | (1.73) | 4.97 | (2.37) |
| lucky | 266 | 8.17 | (1.06) | 6.53 | (2.34) | 6.05 | (2.25) |
| luggage | 1807 | 6.33 | (1.4) | 5.70 | (1.6) | 5.23 | (1.77) |
| lump | 854 | 4.16 | (2.34) | 4.80 | (2.82) | 4.32 | (2.18) |
| lunch | 1808 | 7.21 | (1.84) | 5.43 | (2.46) | 6.10 | (2.4) |
| lung | 1809 | 5.21 | (1.32) | 4.50 | (1.73) | 4.64 | (1.62) |
| lurk | 1810 | 4.20 | (1.54) | 5.73 | (1.96) | 4.00 | (1.86) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|--------------|----------|------------------|------------------|---------------------|
| luscious | 267 | 7.50 (1.08) | 5.34 (2.51) | 5.68 (1.84) |
| lust | 519 | 7.12 (1.62) | 6.88 (1.85) | 5.49 (2.27) |
| luxury | 268 | 7.88 (1.49) | 4.75 (2.91) | 6.40 (2.45) |
| machine | 855 | 5.09 (1.67) | 3.82 (2.4) | 5.23 (2.06) |
| mad | 856 | 2.44 (1.72) | 6.76 (2.26) | 5.86 (2.2) |
| madman | 857 | 3.91 (2.49) | 5.56 (2.78) | 4.79 (2.55) |
| madness | 1811 | 4.37 (2.19) | 5.80 (2.62) | 4.53 (2.33) |
| magazine | 1812 | 5.79 (1.7) | 4.82 (1.98) | 4.93 (1.84) |
| maggot | 269 | 2.06 (1.47) | 5.28 (2.96) | 4.03 (2.09) |
| magical | 858 | 7.46 (1.64) | 5.95 (2.36) | 5.73 (2.19) |
| magnet | 1813 | 5.31 (0.93) | 4.72 (2.02) | 5.21 (1.63) |
| maid | 1814 | 5.56 (1.36) | 5.20 (1.8) | 5.72 (1.49) |
| mail | 859 | 6.88 (1.74) | 5.63 (2.36) | 5.67 (1.79) |
| makeup | 1815 | 5.64 (2.09) | 4.48 (2.39) | 5.59 (2.08) |
| malaria | 860 | 2.40 (1.38) | 4.40 (2.54) | 3.22 (1.9) |
| male | 1816 | 5.84 (1.7) | 4.90 (2.7) | 5.32 (1.68) |
| malice | 270 | 2.69 (1.84) | 5.86 (2.75) | 4.74 (2.72) |
| malnutrition | 1817 | 2.06 (1.27) | 5.68 (2.26) | 4.00 (2.13) |
| malt | 1818 | 6.17 (1.69) | 4.83 (2.24) | 5.38 (1.82) |
| man | 537 | 6.73 (1.7) | 5.24 (2.31) | 5.53 (2.23) |
| mane | 1819 | 5.40 (1.38) | 4.33 (2.2) | 4.90 (1.52) |
| mangle | 861 | 3.90 (2.01) | 5.44 (2.1) | 4.61 (1.84) |
| maniac | 862 | 3.76 (2) | 5.39 (2.46) | 4.22 (2.07) |
| manner | 863 | 5.64 (1.34) | 4.56 (1.78) | 5.05 (1.83) |
| manor | 1820 | 5.61 (1.1) | 4.74 (1.68) | 5.41 (1.19) |
| mansion | 1821 | 7.24 (1.99) | 6.03 (2.13) | 5.86 (1.78) |
| mantel | 864 | 4.93 (1.4) | 3.27 (2.23) | 4.95 (1.61) |
| manure | 865 | 3.10 (1.74) | 4.17 (2.09) | 4.67 (1.36) |
| map | 1822 | 5.14 (1.64) | 4.07 (1.75) | 5.28 (2.12) |
| margin | 1823 | 4.79 (0.73) | 3.61 (1.87) | 4.85 (1.03) |
| market | 866 | 5.66 (1.02) | 4.12 (1.83) | 5.27 (1.4) |
| marrow | 1824 | 4.46 (1.5) | 4.26 (1.93) | 4.41 (1.62) |
| marry | 1825 | 6.68 (2.36) | 6.14 (2.76) | 5.18 (2.54) |
| marsh | 1826 | 4.67 (1.44) | 4.15 (2.18) | 4.67 (1.24) |
| marvel | 1827 | 7.06 (1.77) | 5.20 (2.31) | 4.93 (2.07) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| mascot | 1828 | 6.29 (1.6) | 5.10 (2.61) | 5.39 (1.93) |
| mask | 1829 | 5.23 (1.31) | 4.58 (1.75) | 5.42 (1.72) |
| massacre | 867 | 2.28 (1.74) | 5.33 (2.63) | 3.50 (2.26) |
| mastectomy | 1830 | 2.89 (1.81) | 5.11 (2.17) | 3.75 (1.62) |
| masterful | 271 | 7.09 (1.78) | 5.20 (2.85) | 7.18 (2.56) |
| mastery | 1831 | 6.69 (1.61) | 5.62 (1.92) | 7.28 (1.67) |
| masturbate | 599 | 5.45 (2.02) | 5.67 (2.18) | 5.63 (2.25) |
| matador | 1832 | 5.10 (1.82) | 5.57 (1.93) | 4.89 (1.45) |
| mate | 1833 | 6.87 (1.74) | 6.30 (2.34) | 5.48 (2.2) |
| material | 868 | 5.26 (1.29) | 4.05 (2.34) | 5.12 (1.45) |
| math | 1834 | 3.81 (2.13) | 4.62 (2.57) | 4.44 (2.34) |
| me | 1835 | 8.06 (1.29) | 5.97 (2.66) | 7.88 (1.6) |
| meal | 1836 | 7.59 (1.43) | 5.79 (1.97) | 6.41 (1.66) |
| measles | 272 | 2.74 (1.97) | 5.06 (2.44) | 4.13 (2.16) |
| meat | 1837 | 6.66 (1.8) | 5.41 (1.97) | 6.03 (1.61) |
| meddle | 1838 | 4.07 (2) | 5.10 (1.88) | 4.87 (2) |
| medicine | 869 | 5.67 (2.06) | 4.40 (2.36) | 4.70 (1.91) |
| meek | 273 | 3.87 (1.69) | 3.80 (2.13) | 3.67 (2.23) |
| melody | 870 | 7.07 (1.79) | 4.98 (2.52) | 5.46 (1.78) |
| melt | 1839 | 5.28 (1.94) | 4.93 (1.94) | 4.86 (1.9) |
| member | 1840 | 5.83 (1.51) | 5.03 (1.94) | 5.30 (1.37) |
| memorial | 1841 | 4.68 (2.14) | 4.87 (2.38) | 4.42 (1.57) |
| memories | 871 | 7.48 (1.61) | 6.10 (2.1) | 5.88 (1.92) |
| memory | 274 | 6.62 (1.5) | 5.42 (2.25) | 5.11 (2.12) |
| men | 1842 | 6.66 (1.7) | 5.69 (2.24) | 6.17 (2.02) |
| menace | 275 | 2.88 (1.64) | 5.52 (2.45) | 4.98 (2.25) |
| mend | 1843 | 6.17 (1.67) | 4.93 (2.18) | 5.82 (1.81) |
| menu | 1844 | 6.37 (1.71) | 4.77 (2.13) | 6.00 (1.78) |
| mercy | 1845 | 5.71 (2.41) | 5.43 (2.54) | 3.70 (2.72) |
| merger | 1846 | 5.06 (0.95) | 4.31 (1.64) | 5.16 (0.95) |
| merry | 872 | 7.90 (1.49) | 5.90 (2.42) | 6.64 (1.66) |
| messy | 873 | 3.15 (1.73) | 3.34 (2.37) | 4.75 (2.15) |
| metal | 874 | 4.95 (1.17) | 3.79 (1.96) | 5.38 (1.4) |
| meteor | 1847 | 5.57 (2.16) | 5.83 (2.78) | 3.33 (1.77) |
| method | 875 | 5.56 (1.76) | 3.85 (2.58) | 5.67 (1.58) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| midnight | 1848 | 7.18 (1.7) | 6.50 (2.1) | 5.96 (1.93) |
| mighty | 276 | 6.54 (2.19) | 5.61 (2.38) | 7.23 (2.11) |
| mildew | 277 | 3.17 (1.36) | 4.08 (1.79) | 4.40 (1.79) |
| mile | 1849 | 5.24 (2.18) | 4.69 (2.12) | 5.31 (2) |
| military | 1850 | 5.54 (1.9) | 5.35 (2) | 4.65 (2.3) |
| milk | 876 | 5.95 (2.16) | 3.68 (2.57) | 5.83 (1.5) |
| millionaire | 278 | 8.03 (1.42) | 6.14 (2.7) | 6.97 (2.4) |
| mind | 877 | 6.68 (1.84) | 5.00 (2.68) | 6.37 (2.19) |
| mingle | 1851 | 6.66 (1.33) | 5.88 (1.83) | 5.97 (1.6) |
| miracle | 279 | 8.60 (0.71) | 7.65 (1.67) | 5.35 (2.58) |
| mischievous | 878 | 5.57 (2.05) | 5.76 (1.95) | 5.56 (1.88) |
| miserable | 1852 | 1.55 (1.15) | 5.00 (2.68) | 2.43 (1.85) |
| misery | 879 | 1.93 (1.6) | 5.17 (2.69) | 2.55 (1.45) |
| missiles | 1853 | 3.17 (1.81) | 6.69 (1.91) | 3.14 (2.03) |
| missiles | 600 | 3.33 (2.26) | 5.94 (2.21) | 3.25 (2.31) |
| mistake | 880 | 2.86 (1.79) | 5.18 (2.42) | 3.86 (2.42) |
| mitten | 1854 | 5.59 (1.25) | 3.78 (2.24) | 4.63 (1.36) |
| mob | 1855 | 3.27 (1.66) | 6.11 (2.1) | 3.32 (2) |
| mobility | 881 | 6.83 (1.79) | 5.00 (2.18) | 6.43 (1.48) |
| model | 1856 | 7.10 (1.78) | 6.00 (2.51) | 4.86 (1.92) |
| modest | 280 | 5.76 (1.28) | 3.98 (2.24) | 4.96 (2.16) |
| moist | 1857 | 5.52 (1.68) | 4.55 (2.38) | 5.03 (1.43) |
| mold | 882 | 3.55 (1.7) | 4.07 (1.98) | 4.33 (1.83) |
| molest | 1858 | 1.90 (1.35) | 5.20 (2.86) | 3.23 (2.36) |
| moment | 281 | 5.76 (1.65) | 3.83 (2.29) | 4.81 (1.92) |
| money | 282 | 7.59 (1.4) | 5.70 (2.66) | 6.25 (2.33) |
| monk | 1859 | 5.18 (1.85) | 3.39 (2.18) | 4.89 (1.89) |
| monopoly | 1860 | 6.40 (1.94) | 5.24 (1.6) | 5.70 (1.95) |
| month | 283 | 5.15 (1.09) | 4.03 (1.77) | 4.85 (1.14) |
| mood | 1861 | 5.60 (1.38) | 4.73 (1.78) | 5.60 (1.65) |
| moody | 883 | 3.20 (1.58) | 4.18 (2.38) | 4.39 (1.71) |
| moon | 1862 | 6.74 (1.32) | 4.60 (1.9) | 4.80 (1.81) |
| moral | 884 | 6.20 (1.85) | 4.49 (2.28) | 5.90 (2.2) |
| morale | 1863 | 6.57 (1.75) | 5.00 (2.74) | 5.75 (2.01) |
| morbid | 284 | 2.87 (2.14) | 5.06 (2.68) | 4.34 (2.5) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| morgue | 285 | 1.92 (1.32) | 4.84 (2.96) | 3.61 (1.94) |
| moron | 1864 | 3.77 (2.13) | 5.70 (1.58) | 4.60 (2.24) |
| morsel | 1865 | 5.47 (2.32) | 4.83 (2.13) | 5.17 (2.18) |
| mosquito | 885 | 2.80 (1.91) | 4.78 (2.72) | 4.51 (2.15) |
| moss | 1866 | 4.59 (1.32) | 3.57 (2.03) | 4.54 (1.35) |
| motel | 1867 | 4.43 (2.17) | 4.93 (2.14) | 4.32 (1.91) |
| moth | 1868 | 4.66 (1.59) | 4.00 (2.19) | 5.00 (1.87) |
| mother | 286 | 8.39 (1.15) | 6.13 (2.71) | 5.74 (2.37) |
| motorcycle | 1869 | 5.72 (2.68) | 6.46 (2.19) | 5.14 (2.21) |
| mountain | 287 | 6.59 (1.66) | 5.49 (2.43) | 5.46 (2.36) |
| mourn | 1870 | 1.80 (1.73) | 5.87 (2.6) | 2.87 (1.91) |
| mouth | 1871 | 5.46 (1.53) | 4.79 (2.48) | 5.93 (1.86) |
| movie | 288 | 6.86 (1.81) | 4.93 (2.54) | 5.00 (1.79) |
| mucus | 886 | 3.34 (2.29) | 3.41 (2.17) | 4.80 (1.83) |
| mud | 1872 | 4.81 (1.88) | 3.81 (1.96) | 5.30 (1.77) |
| muddy | 887 | 4.44 (2.07) | 4.13 (2.13) | 4.73 (1.77) |
| muffin | 888 | 6.57 (2.04) | 4.76 (2.42) | 5.51 (1.63) |
| muffle | 1873 | 4.47 (1.43) | 4.90 (1.84) | 4.53 (1.78) |
| mug | 1874 | 5.42 (1.84) | 4.61 (2.19) | 5.13 (1.93) |
| mule | 1875 | 5.15 (1.57) | 4.27 (1.78) | 5.08 (1.72) |
| murderer | 289 | 1.53 (0.96) | 7.47 (2.18) | 3.77 (3.06) |
| muscular | 290 | 6.82 (1.63) | 5.47 (2.2) | 6.58 (2.28) |
| museum | 889 | 5.54 (1.86) | 3.60 (2.13) | 5.32 (1.68) |
| mushroom | 567 | 5.78 (2.22) | 4.72 (2.33) | 5.52 (2.1) |
| music | 291 | 8.13 (1.09) | 5.32 (3.19) | 6.39 (2.44) |
| musician | 1876 | 7.21 (1.52) | 6.10 (2.16) | 5.93 (1.79) |
| mutation | 890 | 3.91 (2.44) | 4.84 (2.52) | 4.07 (2.1) |
| mutilate | 292 | 1.82 (1.45) | 6.41 (2.94) | 3.41 (2.71) |
| mutilation | 1877 | 1.97 (1.27) | 6.07 (2.5) | 2.97 (2.01) |
| mystic | 891 | 6.00 (2.21) | 4.84 (2.57) | 5.52 (1.93) |
| myth | 1878 | 5.86 (2.14) | 5.50 (2.67) | 4.82 (1.36) |
| nab | 1879 | 4.16 (1.57) | 5.32 (1.44) | 5.20 (1.8) |
| nag | 1880 | 2.90 (1.64) | 5.40 (2.16) | 4.27 (1.98) |
| nail | 1881 | 5.14 (1.79) | 4.57 (2.01) | 5.25 (1.29) |
| naked | 892 | 6.34 (2.42) | 5.80 (2.8) | 6.00 (2.05) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| name | 893 | 5.55 (2.24) | 4.25 (2.47) | 5.16 (2.08) |
| napkin | 1882 | 4.84 (1.1) | 4.00 (2.12) | 5.13 (1.56) |
| narcotic | 894 | 4.29 (2.3) | 4.93 (2.57) | 4.44 (2.43) |
| nasty | 895 | 3.58 (2.38) | 4.89 (2.5) | 5.00 (2.17) |
| nation | 1883 | 6.17 (1.91) | 4.60 (2.24) | 5.27 (2.33) |
| natural | 896 | 6.59 (1.57) | 4.09 (2.37) | 5.57 (1.69) |
| nature | 293 | 7.65 (1.37) | 4.37 (2.51) | 4.95 (2.72) |
| necklace | 1884 | 6.39 (1.69) | 4.87 (2.09) | 5.50 (1.8) |
| nectar | 294 | 6.90 (1.53) | 3.89 (2.48) | 4.54 (2.06) |
| needle | 897 | 3.82 (1.73) | 5.36 (2.89) | 3.95 (2.17) |
| neglect | 898 | 2.63 (1.64) | 4.83 (2.31) | 3.85 (2.29) |
| nerves | 1885 | 4.28 (1.75) | 6.31 (2.18) | 4.72 (2.05) |
| nervous | 899 | 3.29 (1.47) | 6.59 (2.07) | 3.56 (1.73) |
| nestle | 1886 | 6.63 (1.59) | 4.10 (1.99) | 5.97 (1.73) |
| net | 1887 | 4.80 (1.65) | 4.83 (2.02) | 4.93 (1.87) |
| neurotic | 900 | 4.45 (2.23) | 5.13 (2.76) | 4.41 (2.05) |
| news | 901 | 5.30 (1.67) | 5.17 (2.11) | 4.60 (1.88) |
| newspaper | 1888 | 5.52 (1.29) | 4.42 (1.86) | 5.26 (1.37) |
| nice | 902 | 6.55 (2.44) | 4.38 (2.69) | 5.58 (2.2) |
| niece | 1889 | 6.33 (1.71) | 4.60 (2.08) | 5.40 (1.59) |
| night | 1890 | 6.06 (1.95) | 5.94 (2.41) | 4.74 (2.11) |
| nightmare | 295 | 1.91 (1.54) | 7.59 (2.23) | 3.68 (2.76) |
| nine | 1891 | 5.07 (0.66) | 4.04 (2.12) | 5.18 (1.36) |
| nip | 1892 | 4.59 (1.6) | 5.04 (1.81) | 5.04 (1.19) |
| nipple | 903 | 6.27 (1.81) | 5.56 (2.55) | 5.57 (2) |
| noise | 1893 | 4.93 (1.9) | 4.86 (2.3) | 4.61 (1.95) |
| noisy | 904 | 5.02 (2.02) | 6.38 (1.78) | 4.93 (1.76) |
| nonchalant | 296 | 4.74 (1.11) | 3.12 (1.93) | 4.31 (1.54) |
| nonsense | 905 | 4.61 (1.63) | 4.17 (2.02) | 4.90 (1.55) |
| noon | 1894 | 6.30 (1.54) | 3.65 (1.96) | 5.08 (1.67) |
| noose | 906 | 3.76 (1.64) | 4.39 (2.08) | 4.17 (1.92) |
| nose | 1895 | 4.71 (1.51) | 4.32 (1.91) | 4.93 (1.63) |
| nosey | 1896 | 3.97 (1.72) | 4.48 (1.95) | 4.63 (1.9) |
| nourish | 907 | 6.46 (1.69) | 4.29 (2.51) | 5.80 (1.62) |
| novel | 1897 | 6.07 (1.62) | 4.61 (2.3) | 5.82 (1.7) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| novice | 1898 | 4.28 (1.58) | 3.69 (1.95) | 4.62 (1.95) |
| nozzle | 1899 | 4.83 (1.42) | 4.60 (1.57) | 5.00 (1.7) |
| nuclear | 1900 | 3.25 (2.2) | 5.86 (2.56) | 3.41 (2.14) |
| nude | 520 | 6.82 (1.63) | 6.41 (2.09) | 5.96 (2.29) |
| nudist | 1901 | 5.89 (1.86) | 6.18 (2.09) | 5.39 (1.88) |
| nuisance | 908 | 3.27 (1.86) | 4.49 (2.69) | 4.36 (1.73) |
| number | 1902 | 5.55 (1.15) | 4.34 (2.22) | 5.24 (2.01) |
| nun | 909 | 4.93 (1.89) | 2.93 (1.8) | 4.93 (1.69) |
| nurse | 538 | 6.08 (2.08) | 4.84 (2.04) | 4.84 (2.2) |
| nursery | 910 | 5.73 (2.3) | 4.04 (2.74) | 5.18 (2.23) |
| oasis | 1903 | 7.79 (1.42) | 5.04 (2.87) | 6.11 (1.91) |
| oath | 1904 | 5.57 (1.52) | 4.80 (1.69) | 5.07 (2.1) |
| obesity | 911 | 2.73 (1.85) | 3.87 (2.82) | 3.74 (2.45) |
| obey | 912 | 4.52 (1.88) | 4.23 (1.72) | 4.26 (2.4) |
| object | 1905 | 5.20 (1.04) | 4.04 (2.18) | 5.29 (1.57) |
| obnoxious | 913 | 3.50 (2.18) | 4.74 (2.42) | 5.39 (2.2) |
| obscene | 914 | 4.23 (2.3) | 5.04 (2.3) | 4.48 (1.91) |
| obsessed | 1906 | 3.60 (1.96) | 6.24 (1.86) | 4.24 (2.23) |
| obsession | 915 | 4.52 (2.13) | 6.41 (2.13) | 4.77 (2.38) |
| obstinate | 1907 | 4.60 (1.59) | 3.97 (1.75) | 4.86 (1.25) |
| ocean | 297 | 7.12 (1.72) | 4.95 (2.79) | 5.53 (2.75) |
| octopus | 1908 | 6.03 (1.59) | 5.20 (1.85) | 4.87 (2.01) |
| odd | 916 | 4.82 (2.04) | 4.27 (2.46) | 4.77 (1.89) |
| odor | 1909 | 2.52 (1.57) | 5.13 (2.1) | 4.23 (1.96) |
| offend | 917 | 2.76 (1.5) | 5.56 (2.06) | 3.73 (2.03) |
| office | 568 | 5.24 (1.59) | 4.08 (1.92) | 5.59 (1.89) |
| officer | 1910 | 3.72 (1.89) | 5.55 (2.26) | 4.07 (2.7) |
| oil | 1911 | 4.60 (1.48) | 4.72 (2.28) | 4.72 (2.02) |
| old | 1912 | 3.31 (1.89) | 3.50 (1.95) | 3.29 (1.8) |
| omelet | 1913 | 6.48 (1.85) | 4.52 (1.9) | 5.40 (1.5) |
| omit | 1914 | 4.19 (1.47) | 4.00 (1.98) | 4.73 (2.29) |
| onion | 1915 | 4.43 (1.91) | 4.60 (2.27) | 4.97 (1.16) |
| opera | 1916 | 4.84 (2.28) | 3.97 (2.43) | 5.07 (1.87) |
| opinion | 298 | 6.28 (1.45) | 4.89 (2.46) | 5.53 (1.93) |
| opportunity | 1917 | 7.41 (1.52) | 6.47 (1.83) | 6.59 (1.68) |

| Description | Word No. | Valence Mean(SD) | | Arousal Mean(SD) | | Dominance Mean (SD) | |
|-------------|----------|------------------|--------|------------------|--------|---------------------|--------|
| oppose | 1918 | 4.14 | (1.43) | 5.29 | (1.82) | 5.14 | (2.29) |
| optimism | 918 | 6.95 | (2.24) | 5.34 | (2.58) | 6.61 | (2.06) |
| optimistic | 1919 | 7.59 | (1.32) | 5.83 | (2.24) | 7.00 | (1.51) |
| option | 919 | 6.49 | (1.31) | 4.74 | (2.23) | 6.34 | (1.8) |
| orange | 1920 | 6.47 | (1.66) | 4.97 | (2.28) | 5.31 | (2.04) |
| orangutan | 1921 | 6.59 | (1.68) | 4.64 | (2.23) | 4.68 | (1.44) |
| orchestra | 299 | 6.02 | (1.89) | 3.52 | (2.29) | 5.17 | (2.14) |
| ordeal | 1922 | 3.77 | (1.31) | 4.92 | (1.75) | 4.42 | (1.42) |
| organ | 1923 | 5.24 | (1.57) | 4.54 | (1.86) | 4.96 | (1.75) |
| orgasm | 920 | 8.32 | (1.31) | 8.10 | (1.45) | 6.83 | (2.18) |
| orphan | 1924 | 2.29 | (1.6) | 5.35 | (1.82) | 3.87 | (1.86) |
| ounce | 1925 | 5.50 | (1.07) | 4.41 | (1.94) | 4.97 | (1.45) |
| outdoors | 521 | 7.47 | (1.8) | 5.92 | (2.55) | 6.27 | (2.24) |
| outlet | 1926 | 5.52 | (1.53) | 3.97 | (2.16) | 5.55 | (1.92) |
| outrage | 921 | 3.52 | (2.12) | 6.83 | (2.26) | 5.26 | (2.72) |
| outstanding | 922 | 7.75 | (1.75) | 6.24 | (2.59) | 6.40 | (2.29) |
| oven | 1927 | 5.71 | (1.33) | 3.78 | (1.76) | 5.41 | (1.67) |
| overcast | 923 | 3.65 | (1.61) | 3.46 | (1.92) | 4.20 | (1.79) |
| overweight | 1928 | 2.00 | (1.21) | 5.52 | (2.44) | 4.19 | (2.77) |
| overwhelmed | 300 | 4.19 | (2.61) | 7.00 | (2.37) | 3.89 | (2.58) |
| owe | 1929 | 3.25 | (1.78) | 5.68 | (2.16) | 3.07 | (1.72) |
| owl | 522 | 5.80 | (1.31) | 3.98 | (1.87) | 5.82 | (1.62) |
| pacify | 1930 | 6.10 | (1.73) | 4.23 | (2.1) | 5.33 | (2.01) |
| packet | 1931 | 4.69 | (1.23) | 4.27 | (2.25) | 4.73 | (1.66) |
| pact | 1932 | 6.20 | (1.3) | 5.20 | (2.06) | 6.30 | (1.39) |
| pail | 1933 | 5.04 | (1.23) | 3.64 | (1.87) | 5.43 | (1.75) |
| pain | 301 | 2.13 | (1.81) | 6.50 | (2.49) | 3.71 | (2.53) |
| paint | 924 | 5.62 | (1.72) | 4.10 | (2.36) | 5.75 | (1.71) |
| painting | 1934 | 6.59 | (1.65) | 5.00 | (2.04) | 5.81 | (1.49) |
| palace | 302 | 7.19 | (1.78) | 5.10 | (2.75) | 5.69 | (2.17) |
| pale | 1935 | 3.17 | (1.47) | 3.50 | (1.71) | 4.32 | (1.22) |
| pamphlet | 925 | 4.79 | (1.05) | 3.62 | (2.02) | 4.63 | (1.48) |
| pan | 1936 | 5.46 | (1.23) | 4.54 | (1.9) | 5.54 | (1.45) |
| pancakes | 523 | 6.08 | (1.83) | 4.06 | (2.13) | 5.76 | (1.61) |
| pang | 1937 | 4.27 | (1.8) | 5.90 | (2.14) | 4.48 | (1.4) |

| Description | Word No. | Valence Mean(SD) | | Arousal Mean(SD) | | Dominance Mean (SD) | |
|-------------|----------|------------------|--------|------------------|--------|---------------------|--------|
| panic | 601 | 3.12 | (1.84) | 7.02 | (2.02) | 3.20 | (1.67) |
| pant | 1938 | 4.61 | (1.64) | 5.14 | (2.16) | 4.86 | (2.01) |
| pantry | 1939 | 6.58 | (1.69) | 4.57 | (2.1) | 5.63 | (2.16) |
| pantyhose | 1940 | 5.86 | (1.78) | 5.07 | (1.98) | 5.29 | (1.86) |
| paper | 303 | 5.20 | (1.21) | 2.50 | (1.85) | 4.47 | (1.67) |
| paradise | 304 | 8.72 | (0.6) | 5.12 | (3.38) | 6.03 | (2.79) |
| paralysis | 926 | 1.98 | (1.44) | 4.73 | (2.83) | 2.56 | (1.82) |
| parch | 1941 | 3.27 | (1.78) | 4.72 | (1.94) | 4.25 | (1.96) |
| parlor | 1942 | 5.40 | (1.28) | 3.83 | (1.74) | 5.47 | (1.11) |
| parrot | 1943 | 6.94 | (1.61) | 5.37 | (2.13) | 4.53 | (2.03) |
| part | 927 | 5.11 | (1.78) | 3.82 | (2.24) | 4.75 | (1.59) |
| party | 305 | 7.86 | (1.83) | 6.69 | (2.84) | 5.83 | (2.46) |
| passage | 928 | 5.28 | (1.44) | 4.36 | (2.13) | 5.02 | (1.62) |
| passion | 306 | 8.03 | (1.27) | 7.26 | (2.57) | 6.13 | (2.24) |
| passive | 1944 | 4.17 | (1.97) | 3.69 | (2.16) | 4.17 | (2.27) |
| pasta | 524 | 6.69 | (1.64) | 4.94 | (2.04) | 5.80 | (1.47) |
| pastry | 1945 | 7.18 | (1.83) | 5.79 | (2.32) | 5.64 | (2.04) |
| patent | 307 | 5.29 | (1.08) | 3.50 | (1.84) | 4.90 | (1.79) |
| path | 1946 | 5.74 | (1.32) | 4.84 | (2.21) | 5.97 | (1.68) |
| patient | 929 | 5.29 | (1.89) | 4.21 | (2.37) | 4.90 | (2.31) |
| patio | 1947 | 5.83 | (1.42) | 3.75 | (2.07) | 5.21 | (1.83) |
| patriot | 930 | 6.71 | (1.69) | 5.17 | (2.53) | 5.90 | (1.54) |
| patriotic | 1948 | 6.62 | (2) | 5.54 | (2.23) | 6.35 | (2) |
| patriotism | 1949 | 6.85 | (1.94) | 5.56 | (2.76) | 6.52 | (2.23) |
| pea | 1950 | 5.26 | (0.93) | 3.45 | (2.05) | 5.39 | (1.61) |
| peace | 308 | 7.72 | (1.75) | 2.95 | (2.55) | 5.45 | (2.84) |
| peaceful | 1951 | 7.77 | (1.28) | 2.87 | (2.39) | 5.70 | (1.93) |
| peanut | 1952 | 5.56 | (2.1) | 3.74 | (2.18) | 5.11 | (1.8) |
| pear | 1953 | 6.52 | (1.65) | 3.96 | (2.38) | 5.37 | (1.92) |
| pecan | 1954 | 5.68 | (1.72) | 4.04 | (1.93) | 5.07 | (1.49) |
| pee | 1955 | 5.41 | (2.06) | 4.84 | (2.22) | 6.06 | (1.93) |
| peep | 1956 | 4.64 | (1.95) | 4.71 | (1.9) | 4.79 | (1.85) |
| penalty | 931 | 2.83 | (1.56) | 5.10 | (2.31) | 3.95 | (1.97) |
| pencil | 309 | 5.22 | (0.68) | 3.14 | (1.9) | 4.78 | (1.73) |
| penis | 932 | 5.90 | (1.72) | 5.54 | (2.63) | 5.92 | (2.54) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| penny | 1957 | 5.06 (1.7) | 3.52 (1.88) | 5.06 (1.53) |
| penthouse | 933 | 6.81 (1.64) | 5.52 (2.49) | 6.52 (1.82) |
| people | 525 | 7.33 (1.7) | 5.94 (2.09) | 6.14 (2.02) |
| perfection | 310 | 7.25 (2.05) | 5.95 (2.73) | 6.71 (2.26) |
| perfume | 934 | 6.76 (1.48) | 5.05 (2.36) | 5.93 (1.69) |
| period | 1958 | 3.80 (1.65) | 4.30 (1.86) | 3.80 (1.86) |
| perish | 1959 | 2.90 (1.99) | 5.30 (2.49) | 3.20 (1.92) |
| permit | 1960 | 5.47 (2.2) | 5.08 (1.92) | 5.17 (2.38) |
| person | 311 | 6.32 (1.74) | 4.19 (2.45) | 5.35 (2.02) |
| personality | 1961 | 7.48 (1.5) | 5.88 (2.29) | 5.50 (2.34) |
| pervert | 312 | 2.79 (2.12) | 6.26 (2.61) | 4.72 (2.83) |
| pessimism | 1962 | 3.10 (2.15) | 4.74 (2.14) | 4.48 (2) |
| pest | 313 | 3.13 (1.82) | 5.62 (2.15) | 5.29 (2.13) |
| pester | 1963 | 2.77 (1.45) | 5.77 (2.13) | 4.60 (1.65) |
| pet | 935 | 6.79 (2.32) | 5.10 (2.59) | 5.85 (2.28) |
| phase | 936 | 5.17 (0.79) | 3.98 (1.82) | 4.65 (1.72) |
| photo | 1964 | 6.77 (1.5) | 5.63 (1.81) | 5.70 (1.21) |
| picket | 1965 | 4.97 (1.02) | 4.45 (1.84) | 5.55 (1.68) |
| picnic | 1966 | 7.07 (1.25) | 5.18 (2.16) | 5.93 (1.56) |
| pie | 314 | 6.41 (1.89) | 4.20 (2.4) | 5.35 (1.78) |
| pier | 1967 | 6.61 (1.56) | 5.32 (2.48) | 5.71 (1.51) |
| pierce | 1968 | 4.35 (1.84) | 5.81 (2.18) | 4.97 (2.01) |
| pig | 937 | 5.07 (1.97) | 4.20 (2.42) | 5.34 (1.88) |
| pigeon | 1969 | 4.93 (2.06) | 4.92 (2.08) | 5.68 (2.04) |
| pill | 1970 | 4.81 (1.28) | 4.63 (1.71) | 5.13 (1.66) |
| pillow | 315 | 7.92 (1.4) | 2.97 (2.52) | 4.56 (2.17) |
| pilot | 1971 | 6.11 (1.62) | 5.07 (2.43) | 5.39 (2.5) |
| pin | 1972 | 4.50 (1.46) | 5.17 (1.82) | 4.77 (1.72) |
| pinch | 938 | 3.83 (1.7) | 4.59 (2.1) | 4.76 (1.73) |
| pint | 1973 | 5.41 (1.74) | 5.04 (1.73) | 5.18 (1.49) |
| pipe | 1974 | 5.52 (1.74) | 4.69 (2) | 5.66 (1.67) |
| pistol | 939 | 4.20 (2.58) | 6.15 (2.19) | 5.05 (2.77) |
| pity | 940 | 3.37 (1.57) | 3.72 (2.02) | 4.12 (1.82) |
| pizza | 526 | 6.65 (2.23) | 5.24 (2.09) | 5.69 (1.9) |
| plain | 941 | 4.39 (1.46) | 3.52 (2.05) | 4.71 (1.68) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| plan | 1975 | 6.47 (1.36) | 4.77 (2.49) | 6.55 (1.53) |
| plane | 539 | 6.43 (1.98) | 6.14 (2.39) | 4.78 (2.19) |
| planet | 1976 | 5.69 (1.6) | 4.34 (2.16) | 4.47 (1.54) |
| plant | 316 | 5.98 (1.83) | 3.62 (2.25) | 4.71 (2.12) |
| plate | 1977 | 5.30 (1.68) | 4.00 (1.89) | 5.55 (1.96) |
| play | 1978 | 8.10 (1.16) | 6.93 (1.8) | 6.97 (1.5) |
| plaza | 1979 | 5.59 (1.32) | 3.89 (1.93) | 5.21 (1.13) |
| plea | 1980 | 4.04 (1.57) | 5.11 (2.01) | 3.96 (2.47) |
| plead | 1981 | 3.74 (1.55) | 5.00 (2.13) | 4.06 (2.08) |
| pleased | 1982 | 7.79 (1.75) | 5.68 (2.63) | 6.29 (2.03) |
| pleasure | 317 | 8.28 (0.92) | 5.74 (2.81) | 6.15 (2.31) |
| pledge | 1983 | 5.62 (1.65) | 4.92 (2.1) | 4.50 (2.2) |
| plod | 1984 | 4.74 (1.09) | 3.80 (1.81) | 4.77 (1.5) |
| poach | 1985 | 3.76 (1.41) | 5.24 (1.84) | 4.59 (1.72) |
| poem | 1986 | 6.48 (1.94) | 4.59 (2.37) | 5.34 (1.65) |
| poet | 1987 | 6.46 (1.55) | 4.67 (2.37) | 4.81 (1.71) |
| poetry | 318 | 5.86 (1.91) | 4.00 (2.85) | 5.31 (1.81) |
| poise | 1988 | 6.90 (1.6) | 5.33 (2.04) | 6.63 (1.63) |
| poison | 319 | 1.98 (1.44) | 6.05 (2.82) | 3.10 (2.44) |
| poker | 1989 | 6.31 (1.85) | 5.64 (2.13) | 5.46 (1.29) |
| pole | 1990 | 5.13 (0.72) | 4.35 (1.33) | 5.32 (1.22) |
| police | 1991 | 4.17 (2.15) | 6.27 (2.13) | 3.30 (1.97) |
| policy | 1992 | 4.50 (1.55) | 4.30 (2) | 4.03 (1.81) |
| politeness | 320 | 7.18 (1.5) | 3.74 (2.37) | 5.74 (1.7) |
| politics | 1993 | 3.97 (1.88) | 5.48 (2.1) | 4.00 (2.15) |
| pollen | 1994 | 3.31 (1.57) | 4.69 (2.22) | 3.91 (1.65) |
| pollute | 321 | 1.85 (1.11) | 6.08 (2.42) | 4.92 (2.51) |
| pollution | 1995 | 2.43 (1.79) | 5.77 (2.37) | 3.66 (2.36) |
| pond | 1996 | 6.14 (1.51) | 4.10 (2.14) | 5.38 (1.59) |
| pony | 1997 | 6.00 (1.74) | 5.07 (2) | 5.29 (1.49) |
| pool | 1998 | 7.70 (1.37) | 5.90 (2.52) | 5.93 (2.1) |
| poor | 1999 | 2.28 (1.73) | 5.21 (2.86) | 2.68 (2.39) |
| popcorn | 2000 | 6.93 (1.61) | 4.89 (2.06) | 5.42 (1.33) |
| porch | 2001 | 6.14 (1.53) | 3.82 (2.21) | 5.39 (1.29) |
| pork | 2002 | 6.20 (1.73) | 4.77 (2.47) | 5.30 (1.78) |

| Description | Word No. | Valence Mean(SD) | | Arousal Mean(SD) | | Dominance Mean (SD) | |
|-------------|----------|------------------|--------|------------------|--------|---------------------|--------|
| porpoise | 2003 | 5.93 | (1.34) | 4.37 | (1.88) | 5.07 | (1.41) |
| position | 2004 | 5.74 | (1.18) | 5.10 | (2.29) | 6.13 | (1.61) |
| positive | 2005 | 8.07 | (1.1) | 5.57 | (2.18) | 6.19 | (1.83) |
| poster | 942 | 5.34 | (1.75) | 3.93 | (2.56) | 4.91 | (1.87) |
| potential | 2006 | 7.00 | (1.83) | 5.93 | (2.39) | 6.50 | (2.29) |
| pout | 2007 | 2.83 | (1.86) | 5.07 | (1.75) | 4.10 | (2.06) |
| poverty | 322 | 1.67 | (0.9) | 4.87 | (2.66) | 3.21 | (2.21) |
| power | 323 | 6.54 | (2.21) | 6.67 | (1.87) | 7.28 | (2.35) |
| powerful | 324 | 6.84 | (1.8) | 5.83 | (2.69) | 7.19 | (2.52) |
| prairie | 325 | 5.75 | (1.43) | 3.41 | (2.17) | 4.62 | (2.13) |
| praise | 2008 | 7.24 | (1.88) | 6.28 | (2.07) | 6.59 | (2.29) |
| pray | 2009 | 6.23 | (2.01) | 4.57 | (2.25) | 5.40 | (2.28) |
| prayer | 2010 | 6.24 | (2.34) | 5.14 | (2.52) | 5.64 | (2.48) |
| preach | 2011 | 5.41 | (2.44) | 5.89 | (2.36) | 4.31 | (2.24) |
| prefer | 2012 | 6.00 | (1.86) | 4.50 | (1.78) | 5.47 | (1.55) |
| pregnant | 2013 | 4.30 | (2.69) | 6.37 | (2.86) | 4.11 | (2.74) |
| preoccupied | 2014 | 4.03 | (1.82) | 4.93 | (1.96) | 4.31 | (2.14) |
| present | 943 | 6.95 | (1.85) | 5.12 | (2.39) | 5.83 | (1.78) |
| president | 2015 | 5.20 | (2.17) | 5.63 | (2.14) | 4.77 | (2.6) |
| press | 2016 | 4.81 | (0.93) | 4.61 | (1.82) | 4.58 | (1.2) |
| pressure | 944 | 3.38 | (1.61) | 6.07 | (2.26) | 3.45 | (2.07) |
| prestige | 945 | 7.26 | (1.9) | 5.86 | (2.08) | 6.90 | (1.96) |
| pretty | 326 | 7.75 | (1.26) | 6.03 | (2.22) | 5.50 | (1.97) |
| price | 2017 | 3.83 | (1.26) | 4.87 | (1.91) | 4.10 | (2.01) |
| prick | 946 | 3.98 | (1.73) | 4.70 | (2.59) | 4.47 | (1.88) |
| pride | 327 | 7.00 | (2.11) | 5.83 | (2.48) | 7.06 | (2.15) |
| priest | 328 | 6.42 | (2) | 4.41 | (2.71) | 4.88 | (2.07) |
| prince | 2018 | 7.03 | (1.71) | 6.07 | (2.19) | 5.59 | (2.34) |
| princess | 2019 | 7.08 | (1.66) | 5.46 | (2.22) | 6.32 | (2.07) |
| prison | 329 | 2.05 | (1.34) | 5.70 | (2.56) | 4.20 | (2.58) |
| privacy | 330 | 5.88 | (1.5) | 4.12 | (1.83) | 5.66 | (1.78) |
| problem | 2020 | 2.74 | (1.61) | 5.81 | (2.22) | 4.04 | (2.53) |
| procedure | 2021 | 4.55 | (1.66) | 4.68 | (2.13) | 4.71 | (1.72) |
| profit | 331 | 7.63 | (1.3) | 6.68 | (1.78) | 5.85 | (2.47) |
| progress | 947 | 7.73 | (1.34) | 6.02 | (2.58) | 6.76 | (2.05) |

| Description | Word No. | Valence Mean(SD) | | Arousal Mean(SD) | | Dominance Mean (SD) | |
|-------------|----------|------------------|--------|------------------|--------|---------------------|--------|
| promotion | 332 | 8.20 | (1.15) | 6.44 | (2.58) | 6.79 | (2.28) |
| propeller | 2022 | 5.43 | (1.55) | 4.43 | (2.7) | 5.33 | (1.24) |
| proper | 2023 | 5.93 | (2.02) | 3.56 | (1.6) | 5.04 | (2.19) |
| prose | 2024 | 5.56 | (1.28) | 4.41 | (1.8) | 5.26 | (1.35) |
| prostitute | 2025 | 4.24 | (2.49) | 5.60 | (2.27) | 5.64 | (1.93) |
| protected | 333 | 7.29 | (1.79) | 4.09 | (2.77) | 5.80 | (2.54) |
| proud | 334 | 8.03 | (1.56) | 5.56 | (3.01) | 6.74 | (2.73) |
| pry | 2026 | 3.47 | (1.48) | 5.03 | (2.3) | 4.33 | (1.99) |
| pub | 2027 | 6.35 | (1.92) | 5.48 | (2.2) | 6.19 | (1.66) |
| puddle | 2028 | 5.07 | (1.65) | 4.14 | (1.82) | 4.68 | (1.87) |
| pulp | 2029 | 5.00 | (2.27) | 4.03 | (1.9) | 5.00 | (1.46) |
| pulpit | 2030 | 5.45 | (1.45) | 4.11 | (1.87) | 5.11 | (0.92) |
| pun | 2031 | 6.20 | (1.67) | 4.60 | (1.98) | 5.27 | (1.41) |
| pungent | 948 | 3.95 | (2.09) | 4.24 | (2.17) | 4.78 | (1.52) |
| punish | 2032 | 1.92 | (1.06) | 6.69 | (2.22) | 2.65 | (2.08) |
| punishment | 335 | 2.22 | (1.41) | 5.93 | (2.4) | 3.50 | (2.43) |
| punk | 2033 | 4.37 | (2.2) | 4.59 | (2.31) | 5.23 | (2.45) |
| puppy | 336 | 7.56 | (1.9) | 5.85 | (2.78) | 5.51 | (2.39) |
| purify | 2034 | 6.63 | (1.63) | 4.90 | (2.11) | 5.63 | (1) |
| pus | 602 | 2.86 | (1.91) | 4.82 | (2.06) | 4.35 | (1.82) |
| pushy | 2035 | 3.30 | (1.7) | 6.00 | (1.76) | 3.73 | (2.1) |
| putrid | 337 | 2.38 | (1.71) | 5.74 | (2.26) | 4.89 | (2.09) |
| python | 949 | 4.05 | (2.48) | 6.18 | (2.25) | 4.52 | (2.56) |
| quality | 950 | 6.25 | (1.59) | 4.48 | (2.12) | 5.64 | (1.59) |
| quarrel | 338 | 2.93 | (2.06) | 6.29 | (2.56) | 4.02 | (2.16) |
| quart | 951 | 5.39 | (2.01) | 3.59 | (2.51) | 5.20 | (1.86) |
| queen | 952 | 6.44 | (1.43) | 4.76 | (2.18) | 5.49 | (2.12) |
| quench | 2036 | 5.52 | (1.86) | 3.93 | (1.65) | 5.71 | (1.76) |
| quick | 953 | 6.64 | (1.61) | 6.57 | (1.78) | 6.57 | (1.91) |
| quiet | 339 | 5.58 | (1.83) | 2.82 | (2.13) | 4.42 | (2.3) |
| quilt | 2037 | 6.38 | (1.76) | 4.31 | (1.85) | 5.48 | (1.53) |
| quit | 2038 | 2.46 | (1.4) | 4.82 | (2.52) | 3.64 | (2.45) |
| rabbit | 527 | 6.57 | (1.92) | 4.02 | (2.19) | 6.08 | (1.72) |
| rabies | 340 | 1.77 | (0.97) | 6.10 | (2.62) | 3.85 | (2.34) |
| race | 2039 | 6.07 | (2) | 5.43 | (2.47) | 5.17 | (1.98) |

| Description | Word No. | Valence Mean(SD) | | Arousal Mean(SD) | | Dominance Mean (SD) | | Description | Word No. | Valence Mean(SD) | | Arousal Mean(SD) | | Dominance Mean (SD) | |
|--------------|----------|------------------|--------|------------------|--------|---------------------|--------|-------------|----------|------------------|--------|------------------|--------|---------------------|--------|
| rack | 2040 | 6.19 | (1.78) | 5.15 | (2.92) | 5.37 | (1.82) | refugee | 2062 | 3.65 | (1.44) | 5.04 | (2.01) | 3.69 | (2.43) |
| radar | 2041 | 4.54 | (1.79) | 5.57 | (2.01) | 4.64 | (1.37) | refute | 2063 | 4.57 | (1.65) | 5.07 | (2.05) | 4.90 | (1.54) |
| radiant | 954 | 6.73 | (2.17) | 5.39 | (2.82) | 5.61 | (2.17) | regime | 2064 | 4.88 | (1.45) | 4.88 | (1.96) | 4.97 | (2.19) |
| radiator | 955 | 4.67 | (1.05) | 4.02 | (1.94) | 4.81 | (1.38) | regret | 2065 | 2.26 | (1.44) | 5.67 | (2.17) | 3.23 | (1.65) |
| radio | 341 | 6.73 | (1.47) | 4.78 | (2.82) | 5.28 | (1.85) | regretful | 348 | 2.28 | (1.42) | 5.74 | (2.32) | 3.43 | (2.52) |
| raft | 2042 | 5.72 | (1.13) | 5.04 | (2.08) | 4.89 | (1.23) | reign | 2066 | 5.82 | (1.74) | 4.93 | (2.34) | 6.57 | (2.28) |
| rag | 2043 | 3.70 | (1.51) | 3.70 | (2.11) | 4.22 | (2.17) | rejected | 349 | 1.50 | (1.09) | 6.37 | (2.56) | 2.72 | (2.58) |
| rage | 342 | 2.41 | (1.86) | 8.17 | (1.4) | 5.68 | (3.01) | rejection | 2067 | 1.77 | (1.22) | 6.00 | (2.48) | 2.17 | (1.49) |
| rain | 569 | 5.08 | (2.51) | 3.65 | (2.35) | 4.78 | (1.68) | relate | 2068 | 6.04 | (1.7) | 4.33 | (2.5) | 5.41 | (1.58) |
| rainbow | 343 | 8.14 | (1.23) | 4.64 | (2.88) | 4.72 | (2.37) | relax | 2069 | 7.87 | (1.7) | 2.47 | (2) | 6.37 | (2.75) |
| raise | 2044 | 6.67 | (1.99) | 5.63 | (2.37) | 5.77 | (1.76) | relaxed | 350 | 7.00 | (1.77) | 2.39 | (2.13) | 5.55 | (1.9) |
| rally | 2045 | 6.23 | (1.79) | 6.50 | (2.06) | 5.57 | (1.81) | relent | 2070 | 4.30 | (1.27) | 4.74 | (1.83) | 4.15 | (1.88) |
| ramble | 2046 | 4.23 | (1.87) | 4.53 | (2.36) | 4.47 | (1.74) | relic | 2071 | 5.76 | (1.23) | 5.16 | (1.82) | 5.84 | (1.49) |
| rancid | 956 | 4.34 | (2.28) | 5.04 | (2.27) | 4.59 | (1.86) | relief | 2072 | 6.81 | (1.78) | 4.17 | (1.97) | 5.60 | (1.79) |
| randy | 2047 | 5.77 | (1.28) | 4.71 | (2.16) | 5.13 | (1.94) | religion | 2073 | 5.07 | (2.21) | 5.85 | (1.79) | 5.30 | (2.43) |
| rape | 344 | 1.25 | (0.91) | 6.81 | (3.17) | 2.97 | (2.94) | rely | 2074 | 5.27 | (1.17) | 4.66 | (2.02) | 4.38 | (2.29) |
| rash | 2048 | 2.54 | (1.79) | 5.43 | (2.28) | 3.68 | (2.18) | remorse | 2075 | 2.48 | (1.55) | 5.66 | (2.26) | 3.31 | (2.19) |
| rat | 345 | 3.02 | (1.66) | 4.95 | (2.36) | 4.55 | (2.14) | remove | 2076 | 4.13 | (1.59) | 4.73 | (2) | 4.70 | (1.76) |
| rattle | 346 | 5.03 | (1.23) | 4.36 | (2.18) | 4.17 | (1.56) | render | 2077 | 4.50 | (1.33) | 4.65 | (1.83) | 4.85 | (1.67) |
| raw | 2049 | 4.32 | (1.68) | 5.04 | (2.16) | 5.22 | (1.5) | rent | 2078 | 4.16 | (1.21) | 5.04 | (1.1) | 4.76 | (1.88) |
| razor | 957 | 4.81 | (2.16) | 5.36 | (2.44) | 4.91 | (1.95) | repent | 2079 | 4.93 | (2.39) | 5.11 | (2.67) | 4.21 | (2.59) |
| react | 2050 | 5.63 | (1) | 5.87 | (1.74) | 5.53 | (1.74) | repentant | 351 | 5.53 | (1.86) | 4.69 | (1.98) | 5.42 | (2.06) |
| ready | 2051 | 6.23 | (1.26) | 5.23 | (2) | 6.55 | (1.79) | report | 2080 | 4.11 | (1.75) | 4.18 | (2.61) | 4.29 | (2.12) |
| realize | 2052 | 6.25 | (1.43) | 5.26 | (1.97) | 5.30 | (1.98) | reptile | 958 | 4.77 | (2) | 5.18 | (2.19) | 4.77 | (2.02) |
| reap | 2053 | 5.50 | (2.01) | 4.89 | (1.91) | 5.43 | (1.93) | repulsed | 2081 | 2.48 | (1.6) | 5.93 | (2.07) | 4.10 | (1.72) |
| rebuff | 2054 | 5.00 | (1.97) | 4.64 | (2.37) | 4.86 | (1.69) | rescue | 352 | 7.70 | (1.24) | 6.53 | (2.56) | 6.45 | (2.29) |
| recede | 2055 | 4.19 | (1.02) | 4.08 | (1.76) | 4.62 | (1.17) | resent | 959 | 3.76 | (1.9) | 4.47 | (2.12) | 4.46 | (2.09) |
| recipe | 2056 | 6.70 | (1.53) | 5.60 | (1.87) | 6.10 | (1.4) | reserved | 353 | 4.88 | (1.83) | 3.27 | (2.05) | 4.30 | (1.93) |
| red | 570 | 6.41 | (1.61) | 5.29 | (2.04) | 5.78 | (1.59) | resign | 2082 | 3.47 | (1.63) | 4.21 | (2.1) | 4.57 | (1.73) |
| redeem | 2057 | 7.47 | (1.28) | 5.43 | (2.11) | 6.20 | (1.52) | resist | 2083 | 5.12 | (1.76) | 5.35 | (1.78) | 5.80 | (1.65) |
| reef | 2058 | 6.97 | (1.72) | 5.52 | (2.38) | 4.97 | (1.76) | respect | 354 | 7.64 | (1.29) | 5.19 | (2.39) | 6.89 | (2.11) |
| refine | 2059 | 5.50 | (1.41) | 4.48 | (1.7) | 5.71 | (1.78) | respectful | 355 | 7.22 | (1.27) | 4.60 | (2.67) | 5.67 | (2.38) |
| reflection | 2060 | 5.97 | (1.83) | 4.38 | (2.01) | 6.10 | (1.7) | response | 2084 | 5.67 | (1.14) | 5.00 | (1.94) | 4.96 | (1.83) |
| refreshment | 347 | 7.44 | (1.29) | 4.45 | (2.7) | 5.00 | (1.92) | restaurant | 960 | 6.76 | (1.85) | 5.41 | (2.55) | 5.73 | (1.41) |
| refrigerator | 2061 | 6.14 | (1.27) | 4.66 | (1.78) | 6.28 | (1.79) | retain | 2085 | 5.38 | (1.66) | 4.57 | (2.25) | 5.79 | (1.93) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| retard | 2086 | 2.89 (2.08) | 4.96 (2.19) | 3.43 (1.91) |
| retire | 2087 | 6.37 (2.51) | 4.70 (2.63) | 6.22 (2.44) |
| retreat | 2088 | 4.50 (1.68) | 4.43 (2.05) | 4.60 (2.18) |
| reunion | 961 | 6.48 (2.45) | 6.34 (2.35) | 5.64 (1.95) |
| reveal | 2089 | 6.29 (1.98) | 6.32 (2.04) | 5.21 (1.91) |
| revere | 2090 | 5.45 (2.05) | 4.29 (2.09) | 5.04 (1.79) |
| reverent | 356 | 5.35 (1.21) | 4.00 (1.6) | 4.67 (1.68) |
| revert | 2091 | 4.53 (1.61) | 4.73 (1.74) | 4.23 (1.98) |
| revise | 2092 | 4.33 (1.75) | 4.67 (1.79) | 4.93 (1.83) |
| revive | 2093 | 6.68 (1.95) | 5.54 (2.43) | 5.58 (2.15) |
| revolt | 357 | 4.13 (1.78) | 6.56 (2.34) | 6.18 (2.11) |
| revolver | 962 | 4.02 (2.44) | 5.55 (2.39) | 4.39 (2.47) |
| reward | 358 | 7.53 (1.67) | 4.95 (2.62) | 6.00 (2.14) |
| rhythm | 2094 | 7.06 (1.63) | 5.73 (2.07) | 6.23 (1.76) |
| rich | 2095 | 7.17 (2.2) | 5.80 (2.59) | 6.57 (1.79) |
| riches | 359 | 7.70 (1.95) | 6.17 (2.7) | 6.74 (2.43) |
| riddle | 2096 | 5.93 (1.34) | 5.20 (1.77) | 4.90 (1.65) |
| ridicule | 360 | 3.13 (2.24) | 5.83 (2.73) | 3.87 (2.7) |
| rifle | 603 | 4.02 (2.76) | 6.35 (2.04) | 4.16 (2.71) |
| right | 2097 | 6.45 (1.55) | 4.79 (2.18) | 6.38 (1.78) |
| rigid | 963 | 3.66 (2.12) | 4.66 (2.47) | 4.61 (2.04) |
| rigor | 2098 | 4.96 (1.82) | 5.57 (2.5) | 5.18 (2.13) |
| ring | 2099 | 6.33 (1.58) | 5.37 (2.17) | 4.73 (1.74) |
| rink | 2100 | 5.70 (1.66) | 4.33 (2.06) | 5.73 (1.76) |
| riot | 361 | 2.96 (1.93) | 6.39 (2.63) | 4.18 (2.47) |
| risk | 2101 | 4.64 (2.04) | 6.54 (2.12) | 3.82 (2.23) |
| river | 362 | 6.85 (1.69) | 4.51 (2.42) | 5.10 (1.86) |
| roach | 363 | 2.35 (1.7) | 6.64 (2.64) | 4.82 (2.94) |
| road | 2102 | 5.53 (1.28) | 4.90 (1.65) | 5.33 (1.88) |
| roast | 2103 | 5.80 (1.71) | 5.10 (2.14) | 5.93 (1.39) |
| rob | 2104 | 2.80 (1.67) | 6.40 (2.59) | 2.80 (1.81) |
| robber | 964 | 2.61 (1.69) | 5.62 (2.72) | 3.62 (2.38) |
| robbery | 2105 | 2.42 (1.52) | 6.90 (2.01) | 2.26 (1.55) |
| robot | 2106 | 5.36 (1.31) | 4.71 (2.14) | 4.46 (1.97) |
| rock | 965 | 5.56 (1.38) | 4.52 (2.37) | 5.15 (2.01) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|---------------|----------|------------------|------------------|---------------------|
| rodeo | 2107 | 5.62 (1.74) | 5.00 (2.19) | 4.69 (1.49) |
| role | 2108 | 6.11 (1.31) | 4.61 (2.17) | 5.68 (1.85) |
| rollercoaster | 528 | 8.02 (1.63) | 8.06 (1.71) | 5.10 (2.76) |
| romance | 2109 | 7.61 (1.58) | 6.90 (2.22) | 6.03 (1.96) |
| romantic | 364 | 8.32 (1) | 7.59 (2.07) | 6.08 (2.29) |
| roof | 2110 | 5.40 (1.5) | 4.07 (2.09) | 5.27 (2) |
| room | 2111 | 5.52 (1.12) | 3.77 (1.96) | 5.52 (1.61) |
| rope | 2112 | 5.07 (1.41) | 4.57 (1.65) | 5.00 (1.74) |
| rot | 2113 | 2.68 (1.87) | 5.18 (2.74) | 3.07 (1.92) |
| rotten | 365 | 2.26 (1.37) | 4.53 (2.38) | 4.32 (2.09) |
| rough | 966 | 4.74 (2) | 5.33 (2.04) | 4.81 (1.7) |
| rower | 2114 | 5.31 (1.31) | 4.97 (1.77) | 5.47 (0.95) |
| royalty | 2115 | 6.57 (1.79) | 5.59 (2.04) | 5.76 (2.06) |
| ruby | 2116 | 6.89 (1.34) | 5.18 (2.34) | 6.07 (1.68) |
| rude | 366 | 2.50 (2.11) | 6.31 (2.47) | 4.91 (2.49) |
| rug | 2117 | 4.93 (1.23) | 3.63 (1.79) | 5.57 (1.43) |
| rugby | 2118 | 5.77 (1.33) | 5.00 (2.02) | 5.03 (1.4) |
| ruins | 2119 | 4.84 (2.21) | 5.48 (1.86) | 4.61 (1.23) |
| ruler | 2120 | 5.10 (1.7) | 4.33 (2.51) | 5.78 (2.38) |
| rules | 2121 | 4.23 (1.41) | 4.38 (1.52) | 3.34 (1.86) |
| rum | 2122 | 6.00 (2.19) | 5.39 (2.5) | 4.75 (2.52) |
| runner | 571 | 5.67 (1.91) | 4.76 (2.4) | 5.47 (1.84) |
| rush | 2123 | 3.97 (2.01) | 6.38 (2.24) | 3.88 (1.54) |
| rusty | 367 | 3.86 (1.47) | 3.77 (2.16) | 4.53 (1.62) |
| rye | 2124 | 5.24 (0.78) | 3.96 (2.09) | 5.28 (1.74) |
| sad | 368 | 1.61 (0.95) | 4.13 (2.38) | 3.45 (2.18) |
| sadness | 2125 | 2.21 (1.75) | 5.21 (2.44) | 2.82 (1.63) |
| safe | 967 | 7.07 (1.9) | 3.86 (2.72) | 5.81 (2.06) |
| safety | 2126 | 6.70 (1.9) | 4.78 (2.55) | 5.56 (2.31) |
| sailboat | 529 | 7.25 (1.71) | 4.88 (2.73) | 5.86 (1.71) |
| saint | 968 | 6.49 (1.7) | 4.49 (1.9) | 5.37 (2.11) |
| salad | 369 | 5.74 (1.62) | 3.81 (2.29) | 5.47 (1.68) |
| salary | 2127 | 6.75 (1.76) | 5.85 (2.32) | 5.30 (2.11) |
| sale | 2128 | 7.07 (1.69) | 6.00 (2.37) | 6.33 (2.06) |
| salon | 2129 | 5.69 (1.69) | 4.92 (2.17) | 5.35 (1.5) |

| Description | Word No. | Valence Mean(SD) | | Arousal Mean(SD) | | Dominance Mean (SD) | | Description | Word No. | Valence Mean(SD) | | Arousal Mean(SD) | | Dominance Mean (SD) | |
|--------------|----------|------------------|--------|------------------|--------|---------------------|--------|-------------|----------|------------------|--------|------------------|--------|---------------------|--------|
| salt | 2130 | 5.56 | (1.04) | 4.54 | (2.04) | 5.75 | (1.22) | scrotum | 2148 | 5.85 | (1.38) | 5.04 | (2.39) | 6.00 | (1.57) |
| salute | 370 | 5.92 | (1.57) | 5.31 | (2.23) | 5.46 | (2.05) | scuff | 2149 | 3.93 | (1.64) | 5.10 | (1.6) | 4.43 | (2.03) |
| sand | 2131 | 6.34 | (2.04) | 4.79 | (2.35) | 5.83 | (1.85) | scum | 377 | 2.43 | (1.56) | 4.88 | (2.36) | 4.26 | (1.99) |
| sandwich | 2132 | 6.28 | (1.56) | 5.59 | (2.21) | 5.46 | (1.9) | scurvy | 378 | 3.19 | (2) | 4.71 | (2.72) | 4.48 | (2.48) |
| sapphire | 371 | 7.00 | (1.88) | 5.00 | (2.72) | 5.55 | (2.24) | sea | 2150 | 7.00 | (1.66) | 4.83 | (2.99) | 5.28 | (2.02) |
| satellite | 2133 | 6.10 | (1.5) | 4.90 | (2.08) | 5.00 | (1.87) | seagull | 2151 | 5.89 | (1.91) | 4.57 | (2.33) | 4.93 | (1.62) |
| satire | 2134 | 6.23 | (1.91) | 5.34 | (2.04) | 5.62 | (1.54) | seal | 2152 | 5.81 | (1.44) | 5.42 | (1.79) | 5.58 | (1.5) |
| satisfaction | 2135 | 7.69 | (1.42) | 6.83 | (2.22) | 6.76 | (1.57) | seasick | 379 | 2.05 | (1.2) | 5.80 | (2.88) | 3.41 | (2.39) |
| satisfied | 372 | 7.94 | (1.19) | 4.94 | (2.63) | 6.14 | (2.37) | seat | 380 | 4.95 | (0.98) | 2.95 | (1.72) | 4.84 | (1.88) |
| saucer | 2136 | 5.09 | (0.96) | 4.41 | (1.68) | 5.06 | (1.19) | secretary | 2153 | 5.76 | (1.3) | 4.66 | (2.04) | 5.86 | (1.62) |
| save | 969 | 6.45 | (1.93) | 4.95 | (2.19) | 6.00 | (1.79) | secure | 381 | 7.57 | (1.76) | 3.14 | (2.47) | 5.93 | (2.57) |
| savior | 373 | 7.73 | (1.56) | 5.80 | (3.01) | 6.64 | (2.18) | security | 2154 | 7.28 | (1.51) | 4.22 | (2.45) | 5.53 | (2.27) |
| scalding | 970 | 2.82 | (2.12) | 5.95 | (2.55) | 3.82 | (2.3) | seduction | 2155 | 7.53 | (1.66) | 7.43 | (1.83) | 5.63 | (2.5) |
| scandal | 971 | 3.32 | (1.81) | 5.12 | (2.22) | 4.34 | (1.73) | seek | 2156 | 5.59 | (1.43) | 5.12 | (1.84) | 5.28 | (1.78) |
| scapegoat | 972 | 3.67 | (1.65) | 4.53 | (2.13) | 3.52 | (1.7) | seize | 2157 | 3.52 | (2.1) | 6.52 | (2.42) | 3.26 | (2.47) |
| scar | 973 | 3.38 | (1.7) | 4.79 | (2.11) | 3.88 | (1.71) | self | 2158 | 7.00 | (1.58) | 5.46 | (2.47) | 7.21 | (1.96) |
| scare | 2137 | 3.62 | (1.93) | 6.56 | (2.26) | 3.66 | (1.81) | selfish | 382 | 2.42 | (1.62) | 5.50 | (2.62) | 4.64 | (2.31) |
| scared | 604 | 2.78 | (1.99) | 6.82 | (2.03) | 2.94 | (2.19) | semen | 2159 | 5.07 | (1.72) | 5.67 | (1.67) | 5.57 | (1.72) |
| scarf | 2138 | 5.64 | (1.47) | 3.46 | (1.93) | 5.46 | (1.56) | sensitive | 2160 | 5.50 | (1.87) | 4.27 | (2.21) | 4.55 | (1.55) |
| scary | 2139 | 3.24 | (1.83) | 6.69 | (1.98) | 3.66 | (2.13) | sentiment | 977 | 5.98 | (1.71) | 4.41 | (2.3) | 5.09 | (1.46) |
| scene | 2140 | 5.59 | (1.38) | 4.93 | (1.94) | 5.14 | (1.22) | sentry | 2161 | 5.00 | (1.17) | 4.19 | (1.74) | 5.00 | (1.5) |
| scent | 2141 | 6.30 | (1.26) | 5.30 | (1.9) | 5.27 | (1.14) | serene | 2162 | 6.90 | (1.99) | 3.40 | (2.43) | 5.93 | (1.74) |
| scholar | 374 | 7.26 | (1.42) | 5.12 | (2.46) | 6.59 | (2.02) | serious | 383 | 5.08 | (1.59) | 4.00 | (1.87) | 5.12 | (1.65) |
| school | 2142 | 4.36 | (2.13) | 4.44 | (2.22) | 5.00 | (2.15) | sermon | 2163 | 5.72 | (2.03) | 4.45 | (2.47) | 4.45 | (2.34) |
| science | 2143 | 4.76 | (2.28) | 4.71 | (2.31) | 4.82 | (2.13) | sever | 2164 | 3.08 | (1.68) | 5.72 | (2.19) | 3.76 | (1.98) |
| scientific | 2144 | 5.66 | (2) | 4.86 | (1.94) | 5.36 | (1.93) | severe | 978 | 3.20 | (1.74) | 5.26 | (2.36) | 3.83 | (1.91) |
| scissors | 974 | 5.05 | (0.96) | 4.47 | (1.76) | 5.16 | (1.84) | sewage | 2165 | 2.61 | (2.16) | 4.57 | (2.4) | 4.47 | (1.48) |
| scoff | 2145 | 3.94 | (2.29) | 5.25 | (1.95) | 4.78 | (1.9) | sex | 384 | 8.05 | (1.53) | 7.36 | (1.91) | 5.75 | (2.25) |
| scold | 2146 | 2.81 | (1.49) | 6.06 | (1.95) | 3.39 | (2.08) | sexy | 530 | 8.02 | (1.12) | 7.36 | (1.91) | 6.82 | (2.13) |
| scorch | 2147 | 3.23 | (1.99) | 4.97 | (2.49) | 3.90 | (1.6) | shadow | 385 | 4.35 | (1.23) | 4.30 | (2.26) | 4.19 | (1.82) |
| scorching | 975 | 3.76 | (1.83) | 5.00 | (2.74) | 4.10 | (2.01) | shaky | 2166 | 3.42 | (1.17) | 5.08 | (1.83) | 3.46 | (1.45) |
| scorn | 375 | 2.84 | (2.07) | 5.48 | (2.52) | 3.93 | (2.64) | shame | 2167 | 2.13 | (1.14) | 6.33 | (2.04) | 2.97 | (1.73) |
| scornful | 376 | 3.02 | (2.03) | 5.04 | (2.56) | 4.59 | (2.18) | shamed | 386 | 2.50 | (1.34) | 4.88 | (2.27) | 2.98 | (1.94) |
| scorpion | 976 | 3.69 | (2.63) | 5.38 | (3.08) | 3.98 | (2.44) | shark | 606 | 3.65 | (2.47) | 7.16 | (1.96) | 2.63 | (2.16) |
| scream | 605 | 3.88 | (2.07) | 7.04 | (1.96) | 4.75 | (2.21) | shawl | 2168 | 5.24 | (1.64) | 3.90 | (2.14) | 5.24 | (1.77) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| sheep | 2169 | 6.44 (1.63) | 3.78 (2.29) | 5.41 (1.67) |
| shelf | 2170 | 5.28 (0.77) | 4.22 (1.52) | 5.44 (1.32) |
| sheltered | 387 | 5.75 (1.92) | 4.28 (1.77) | 3.76 (1.91) |
| shield | 2171 | 6.54 (1.93) | 5.36 (2.34) | 6.43 (1.99) |
| shine | 2172 | 7.07 (1.46) | 5.25 (1.94) | 6.29 (1.86) |
| ship | 388 | 5.55 (1.4) | 4.38 (2.29) | 5.12 (2.31) |
| shock | 2173 | 4.03 (2.25) | 7.45 (1.97) | 3.34 (2.19) |
| shoes | 2174 | 6.19 (1.36) | 4.52 (2.38) | 5.89 (1.95) |
| shoplifter | 2175 | 2.93 (1.85) | 6.00 (2.27) | 4.24 (2.34) |
| shopping | 2176 | 6.48 (2.53) | 5.79 (2.62) | 6.50 (2.25) |
| short | 2177 | 4.64 (1.79) | 3.75 (2.15) | 3.96 (2.24) |
| shotgun | 979 | 4.37 (2.75) | 6.27 (1.94) | 5.29 (2.67) |
| shower | 2178 | 7.04 (1.23) | 5.54 (2.27) | 6.32 (1.63) |
| shred | 2179 | 4.46 (1.43) | 5.00 (1.87) | 4.89 (1.87) |
| shriek | 980 | 3.93 (2.22) | 5.36 (2.91) | 4.30 (1.86) |
| shrimp | 2180 | 6.00 (2.3) | 4.52 (2.25) | 6.45 (2.1) |
| shrink | 2181 | 4.00 (1.2) | 5.07 (2.05) | 3.59 (2.11) |
| shrub | 2182 | 4.92 (0.4) | 4.04 (1.7) | 5.52 (1.33) |
| shun | 2183 | 2.97 (1.71) | 5.24 (2.25) | 3.66 (2) |
| shut | 2184 | 4.53 (1.46) | 4.87 (1.85) | 4.40 (1.71) |
| shy | 389 | 4.64 (1.83) | 3.77 (2.29) | 3.44 (1.96) |
| sick | 607 | 1.90 (1.14) | 4.29 (2.45) | 3.04 (1.65) |
| sickness | 390 | 2.25 (1.71) | 5.61 (2.67) | 3.84 (2.5) |
| sidle | 2185 | 5.29 (1.01) | 4.89 (1.4) | 5.18 (0.61) |
| sigh | 2186 | 4.15 (1.75) | 2.78 (1.78) | 4.44 (1.85) |
| sight | 2187 | 6.58 (1.69) | 4.73 (2.23) | 5.47 (2.08) |
| silent | 2188 | 4.79 (1.97) | 3.46 (2.19) | 4.96 (2.19) |
| silk | 391 | 6.90 (1.27) | 3.71 (2.51) | 4.81 (1.93) |
| silly | 981 | 7.41 (1.8) | 5.88 (2.38) | 6.00 (2.09) |
| silver | 2189 | 6.85 (1.59) | 5.19 (1.86) | 5.65 (1.55) |
| simple | 2190 | 6.50 (1.55) | 3.73 (2.15) | 6.10 (2.02) |
| sin | 392 | 2.80 (1.67) | 5.78 (2.21) | 3.62 (2.29) |
| sinful | 393 | 2.93 (2.15) | 6.29 (2.43) | 4.24 (2.73) |
| sing | 2191 | 6.77 (2.24) | 5.73 (2.1) | 5.37 (2.34) |
| sissy | 394 | 3.14 (1.96) | 5.17 (2.57) | 3.58 (2.74) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| sister | 2192 | 7.46 (1.77) | 5.43 (2.66) | 4.93 (2.14) |
| sizzle | 2193 | 6.70 (1.42) | 5.90 (1.94) | 5.80 (1.54) |
| skate | 2194 | 6.60 (1.48) | 6.33 (1.71) | 5.73 (1.86) |
| skeleton | 2195 | 3.83 (1.97) | 4.79 (2.06) | 4.39 (2.08) |
| skeptical | 395 | 4.52 (1.63) | 4.91 (1.92) | 4.50 (1.61) |
| ski | 2196 | 6.80 (1.9) | 6.62 (2.01) | 5.21 (1.93) |
| skier | 2197 | 5.72 (1.89) | 5.36 (2.25) | 5.75 (1.69) |
| skijump | 531 | 7.06 (1.73) | 7.06 (2.1) | 4.90 (2.32) |
| skill | 2198 | 6.90 (1.95) | 5.70 (2.02) | 6.33 (2.38) |
| skin | 2199 | 5.55 (1.53) | 4.86 (2.31) | 5.21 (1.72) |
| skinhead | 2200 | 3.54 (2.25) | 4.62 (2.47) | 4.19 (1.36) |
| skip | 2201 | 6.15 (1.51) | 5.70 (2) | 5.37 (1.92) |
| skit | 2202 | 6.44 (1.76) | 5.22 (2.26) | 5.89 (1.83) |
| skull | 608 | 4.27 (1.83) | 4.75 (1.85) | 4.86 (1.62) |
| sky | 572 | 7.37 (1.4) | 4.27 (2.17) | 5.16 (2) |
| skyline | 2203 | 6.90 (1.74) | 5.28 (2.03) | 5.31 (1.97) |
| skyscraper | 573 | 5.88 (1.87) | 5.71 (2.17) | 4.33 (2.36) |
| slang | 2204 | 4.67 (1.49) | 4.80 (1.71) | 5.23 (1.63) |
| slap | 396 | 2.95 (1.79) | 6.46 (2.58) | 4.21 (2.29) |
| slaughter | 397 | 1.64 (1.18) | 6.77 (2.42) | 3.82 (2.75) |
| slave | 398 | 1.84 (1.13) | 6.21 (2.93) | 3.29 (2.76) |
| slayer | 2205 | 4.00 (2.38) | 6.24 (2.2) | 4.76 (2.65) |
| sleep | 399 | 7.20 (1.77) | 2.80 (2.66) | 5.41 (2.41) |
| slim | 2206 | 6.97 (1.43) | 5.62 (1.72) | 5.93 (1.91) |
| slime | 400 | 2.68 (1.66) | 5.36 (2.63) | 4.17 (1.82) |
| slip | 2207 | 3.59 (1.82) | 5.46 (2.43) | 3.14 (1.92) |
| slob | 2208 | 3.12 (1.77) | 4.23 (1.8) | 4.27 (1.87) |
| slogan | 2209 | 5.83 (1.39) | 4.18 (2.07) | 5.14 (0.8) |
| slouch | 2210 | 4.07 (1.26) | 3.83 (1.89) | 4.83 (1.83) |
| slow | 982 | 3.93 (1.6) | 3.39 (2.22) | 4.35 (1.61) |
| sludge | 2211 | 4.00 (1.77) | 3.80 (1.69) | 4.77 (1.61) |
| slum | 401 | 2.39 (1.25) | 4.78 (2.52) | 3.83 (2.18) |
| slush | 983 | 4.66 (1.88) | 3.73 (2.23) | 4.91 (1.48) |
| smack | 2212 | 3.50 (1.71) | 5.64 (2.3) | 4.57 (2.53) |
| smallpox | 402 | 2.52 (2.08) | 5.58 (2.13) | 4.29 (2.17) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| smart | 2213 | 7.93 (1.48) | 5.90 (2.22) | 6.77 (2.18) |
| smear | 2214 | 3.92 (1.62) | 5.15 (1.78) | 4.46 (1.61) |
| smell | 2215 | 5.20 (1.83) | 5.20 (1.89) | 5.44 (1.8) |
| smile | 2216 | 8.16 (1.77) | 5.93 (2.64) | 6.60 (2.22) |
| smirk | 2217 | 5.52 (1.84) | 4.97 (1.76) | 5.55 (1.62) |
| smoke | 2218 | 3.39 (3.02) | 4.48 (2.87) | 4.67 (2.48) |
| smooth | 984 | 6.58 (1.78) | 4.91 (2.57) | 5.09 (2.09) |
| smudge | 2219 | 4.00 (1.34) | 4.43 (1.67) | 4.46 (1.32) |
| snail | 2220 | 4.31 (1.67) | 3.86 (2.27) | 5.68 (2.04) |
| snake | 609 | 3.31 (2.2) | 6.82 (2.1) | 3.78 (2.05) |
| snare | 2221 | 4.48 (2.12) | 5.41 (1.82) | 4.78 (2.03) |
| snatch | 2222 | 4.66 (2.18) | 5.47 (2.16) | 4.53 (2.05) |
| sneakers | 2223 | 6.34 (1.59) | 5.07 (2.31) | 6.36 (1.5) |
| sneer | 2224 | 3.76 (1.55) | 4.93 (2.27) | 4.66 (1.65) |
| sneeze | 2225 | 4.76 (1.77) | 4.96 (2.03) | 3.93 (1.68) |
| snob | 403 | 3.36 (1.81) | 5.65 (2.36) | 5.11 (2.25) |
| snow | 575 | 7.08 (1.83) | 5.75 (2.47) | 5.80 (1.97) |
| snuggle | 404 | 7.92 (1.24) | 4.16 (2.8) | 5.66 (2.47) |
| soak | 2226 | 5.38 (1.97) | 5.36 (2.51) | 5.11 (1.55) |
| soap | 2227 | 5.97 (1.64) | 4.52 (1.64) | 5.97 (1.38) |
| soar | 2228 | 6.90 (1.63) | 6.17 (2.25) | 5.83 (2.21) |
| sob | 2229 | 2.03 (1.32) | 5.86 (2.32) | 3.36 (1.5) |
| soccer | 2230 | 5.90 (1.95) | 5.39 (2.3) | 5.61 (1.73) |
| social | 985 | 6.88 (1.82) | 4.98 (2.59) | 5.91 (2.07) |
| society | 2231 | 5.03 (1.3) | 4.82 (2.44) | 4.39 (2.31) |
| sock | 2232 | 5.04 (1.14) | 3.46 (2.12) | 5.57 (1.53) |
| soda | 2233 | 6.50 (2.08) | 5.77 (2.05) | 5.83 (1.95) |
| sodomize | 2234 | 3.70 (1.97) | 5.13 (2.39) | 3.80 (2.02) |
| sofa | 2235 | 6.53 (1.5) | 3.10 (1.92) | 6.17 (1.56) |
| soft | 986 | 7.12 (1.34) | 4.63 (2.61) | 6.00 (1.8) |
| soil | 2236 | 4.67 (1.47) | 3.57 (1.76) | 4.70 (1.95) |
| soldier | 2237 | 5.79 (2.02) | 5.48 (2.1) | 5.69 (1.95) |
| solemn | 405 | 4.32 (1.51) | 3.56 (1.95) | 4.61 (1.87) |
| son | 2238 | 6.39 (1.52) | 5.71 (1.8) | 5.64 (1.79) |
| song | 987 | 7.10 (1.97) | 6.07 (2.42) | 5.85 (2.12) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| soothe | 2239 | 7.58 (1.24) | 4.96 (2.62) | 6.00 (1.26) |
| soothe | 988 | 7.30 (1.85) | 4.40 (3.08) | 5.36 (2.24) |
| sorrow | 2240 | 2.32 (1.68) | 4.48 (2.38) | 3.67 (2.18) |
| sorry | 2241 | 3.62 (2.29) | 5.11 (2.35) | 3.82 (1.98) |
| soul | 2242 | 6.72 (1.33) | 4.39 (1.85) | 5.71 (1.76) |
| soup | 2243 | 6.25 (1.94) | 4.32 (2.09) | 5.61 (1.85) |
| sour | 989 | 3.93 (1.98) | 5.10 (1.95) | 4.64 (1.5) |
| spa | 2244 | 7.86 (1.27) | 4.82 (2.92) | 5.46 (1.95) |
| space | 574 | 6.78 (1.66) | 5.14 (2.54) | 5.20 (2.44) |
| spanking | 990 | 3.55 (2.54) | 5.41 (2.73) | 3.91 (2.51) |
| speech | 2245 | 4.54 (2.17) | 5.68 (2.33) | 4.86 (2.73) |
| spend | 2246 | 5.60 (2.47) | 5.60 (1.87) | 5.90 (1.97) |
| sphere | 991 | 5.33 (0.87) | 3.88 (1.99) | 5.00 (0.92) |
| spice | 2247 | 6.21 (1.74) | 5.62 (2.34) | 5.62 (1.5) |
| spider | 610 | 3.33 (1.72) | 5.71 (2.21) | 4.75 (2.11) |
| spike | 2248 | 5.34 (1.14) | 4.96 (1.62) | 5.11 (1.26) |
| spine | 2249 | 5.12 (1.13) | 4.48 (2.06) | 5.32 (1.46) |
| spirit | 406 | 7.00 (1.32) | 5.56 (2.62) | 5.82 (2.42) |
| sponge | 2250 | 5.11 (1.15) | 3.52 (1.95) | 4.96 (1.76) |
| spoon | 2251 | 5.93 (1.39) | 4.15 (2.13) | 5.37 (1.67) |
| sports | 2252 | 6.45 (1.95) | 6.23 (2.31) | 5.77 (2.13) |
| spouse | 407 | 7.58 (1.48) | 5.21 (2.75) | 5.53 (1.97) |
| spray | 992 | 5.45 (1.63) | 4.14 (2.28) | 5.12 (1.43) |
| spring | 993 | 7.76 (1.51) | 5.67 (2.51) | 6.26 (1.98) |
| spur | 2253 | 5.17 (2.17) | 5.07 (2.12) | 5.50 (1.55) |
| spurn | 2254 | 4.38 (1.54) | 4.38 (2.11) | 4.41 (1.52) |
| squad | 2255 | 5.58 (1.42) | 5.19 (1.88) | 4.77 (1.82) |
| square | 408 | 4.74 (1.02) | 3.18 (1.76) | 4.51 (1.45) |
| squash | 2256 | 4.97 (1.79) | 3.93 (2.12) | 5.48 (1.88) |
| squeal | 2257 | 4.67 (2.53) | 6.26 (2.41) | 4.52 (1.95) |
| stagnant | 994 | 4.15 (1.57) | 3.93 (1.94) | 4.71 (1.36) |
| stairs | 2258 | 4.67 (1.45) | 5.00 (1.64) | 4.87 (1.87) |
| stalk | 2259 | 2.80 (1.65) | 5.41 (2.37) | 3.62 (2.11) |
| star | 409 | 7.27 (1.66) | 5.83 (2.44) | 4.68 (2.15) |
| startled | 410 | 4.50 (1.67) | 6.93 (2.24) | 4.48 (1.57) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| starvation | 2260 | 1.82 (1.68) | 6.46 (2.47) | 3.11 (2.17) |
| starve | 2261 | 2.50 (1.7) | 4.93 (2.32) | 3.93 (2.27) |
| starving | 611 | 2.39 (1.82) | 5.61 (2.53) | 3.63 (2.1) |
| statue | 995 | 5.17 (0.7) | 3.46 (1.72) | 4.95 (1.4) |
| status | 2262 | 5.62 (1.27) | 4.93 (1.79) | 5.41 (1.59) |
| steak | 2263 | 6.86 (2.46) | 5.32 (2.55) | 6.18 (2.02) |
| steal | 2264 | 3.18 (1.91) | 5.11 (2.51) | 4.93 (2.42) |
| steam | 2265 | 5.00 (1.13) | 4.35 (2.3) | 5.15 (0.78) |
| stench | 996 | 2.19 (1.37) | 4.36 (2.46) | 4.29 (1.91) |
| stereo | 2266 | 6.89 (1.47) | 6.04 (2.19) | 6.07 (1.54) |
| stiff | 997 | 4.68 (1.97) | 4.02 (2.41) | 4.93 (2.04) |
| stifle | 2267 | 3.50 (1.5) | 4.93 (1.98) | 3.71 (1.88) |
| sting | 2268 | 2.48 (1.76) | 6.78 (2.59) | 3.67 (2.47) |
| stingy | 2269 | 3.10 (1.6) | 5.37 (1.96) | 4.53 (1.89) |
| stink | 411 | 3.00 (1.79) | 4.26 (2.1) | 4.16 (1.98) |
| stolen | 2270 | 2.69 (1.51) | 6.03 (2.11) | 3.41 (1.92) |
| stomach | 998 | 4.82 (2.06) | 3.93 (2.49) | 4.68 (1.85) |
| stool | 999 | 4.56 (1.72) | 4.00 (2.14) | 4.98 (1.85) |
| stop | 2271 | 3.96 (1.37) | 4.26 (2.01) | 4.89 (2.01) |
| store | 2272 | 5.93 (1.31) | 5.00 (2.04) | 6.00 (1.46) |
| storm | 1000 | 4.95 (2.22) | 5.71 (2.34) | 4.54 (2.04) |
| story | 2273 | 6.63 (1.85) | 5.37 (2.2) | 5.47 (1.25) |
| stove | 1001 | 4.98 (1.69) | 4.51 (2.14) | 5.36 (1.87) |
| stow | 2274 | 5.23 (0.67) | 3.74 (1.71) | 5.19 (1.49) |
| street | 412 | 5.22 (0.72) | 3.39 (1.87) | 4.81 (1.21) |
| strength | 2275 | 7.41 (1.5) | 5.76 (1.7) | 7.21 (1.61) |
| stress | 413 | 2.09 (1.41) | 7.45 (2.38) | 3.93 (2.75) |
| stricken | 2276 | 3.29 (1.82) | 6.04 (2.1) | 3.14 (1.6) |
| stride | 2277 | 5.72 (1.31) | 4.75 (1.87) | 6.38 (1.47) |
| string | 2278 | 5.34 (1.76) | 4.36 (2.33) | 5.57 (1.64) |
| strive | 2279 | 6.78 (1.34) | 6.19 (2.02) | 6.19 (1.75) |
| strong | 414 | 7.11 (1.48) | 5.92 (2.28) | 6.92 (2.43) |
| structure | 2280 | 5.21 (1.42) | 4.04 (1.85) | 5.41 (1.55) |
| stubborn | 2281 | 3.86 (1.94) | 5.30 (2.4) | 5.33 (2.25) |
| studio | 2282 | 6.03 (1.45) | 5.11 (1.65) | 5.85 (1.56) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| stun | 2283 | 4.93 (1.77) | 6.29 (2.05) | 3.66 (1.93) |
| stupid | 415 | 2.31 (1.37) | 4.72 (2.71) | 2.98 (2.18) |
| stupor | 2284 | 4.39 (1.99) | 4.48 (2.06) | 3.67 (2.04) |
| style | 2285 | 6.82 (1.63) | 5.36 (2.08) | 5.64 (1.85) |
| subdue | 2286 | 4.69 (1.65) | 4.30 (2.05) | 4.56 (2.06) |
| subdued | 416 | 4.67 (1.31) | 2.90 (1.81) | 4.08 (1.56) |
| subject | 2287 | 5.04 (0.79) | 3.93 (1.82) | 4.68 (1.68) |
| submit | 2288 | 4.37 (1.86) | 5.22 (1.95) | 3.96 (2.21) |
| suburb | 2289 | 5.89 (1.43) | 4.54 (1.86) | 5.84 (1.07) |
| subway | 2290 | 6.29 (1.72) | 5.52 (2.39) | 5.37 (2.17) |
| success | 417 | 8.29 (0.93) | 6.11 (2.65) | 6.89 (2.4) |
| suffer | 2291 | 1.72 (1.34) | 6.12 (2.89) | 2.54 (2.13) |
| suffocate | 418 | 1.56 (0.96) | 6.03 (3.19) | 3.44 (2.81) |
| sugar | 1002 | 6.74 (1.73) | 5.64 (2.18) | 5.50 (1.5) |
| suggestion | 2292 | 5.66 (1.04) | 4.72 (1.55) | 4.88 (1.31) |
| suicide | 419 | 1.25 (0.69) | 5.73 (3.14) | 3.58 (3.02) |
| suite | 2293 | 7.25 (1.78) | 5.59 (2.55) | 5.44 (1.99) |
| sun | 532 | 7.55 (1.85) | 5.04 (2.66) | 6.16 (2.09) |
| sunflower | 2294 | 7.41 (1.34) | 4.30 (2.2) | 5.33 (2.11) |
| sunglasses | 2295 | 6.47 (1.43) | 4.90 (2.37) | 5.97 (1.43) |
| sunlight | 1003 | 7.76 (1.43) | 6.10 (2.3) | 5.63 (2.15) |
| sunrise | 420 | 7.86 (1.35) | 5.06 (3.05) | 5.29 (2.41) |
| sunset | 421 | 7.68 (1.72) | 4.20 (2.99) | 5.66 (2.08) |
| supper | 2296 | 7.23 (1.55) | 6.30 (2.18) | 6.03 (1.77) |
| supply | 2297 | 5.27 (1.12) | 4.38 (1.7) | 5.27 (1.31) |
| sure | 2298 | 6.53 (1.96) | 5.00 (2.39) | 6.03 (2.16) |
| surfer | 2299 | 6.55 (1.86) | 5.45 (2.25) | 5.45 (1.62) |
| surgeon | 2300 | 5.36 (1.87) | 5.86 (2.22) | 4.61 (2.1) |
| surgery | 612 | 2.86 (2.19) | 6.35 (2.32) | 2.75 (1.86) |
| surprise | 2301 | 7.73 (1.66) | 7.07 (1.95) | 3.87 (2.22) |
| surprised | 422 | 7.47 (1.56) | 7.47 (2.09) | 6.11 (2.19) |
| sushi | 2302 | 5.72 (2.67) | 5.22 (2.21) | 5.81 (2.09) |
| suspicious | 423 | 3.76 (1.42) | 6.25 (1.59) | 4.47 (1.99) |
| swamp | 1004 | 5.14 (2.24) | 4.86 (2.36) | 5.29 (1.63) |
| swan | 2303 | 6.48 (2.01) | 3.52 (2.16) | 5.32 (1.87) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| swear | 2304 | 4.43 (1.45) | 5.46 (2.05) | 4.79 (1.79) |
| sweet | 2305 | 7.64 (1.42) | 5.96 (2.5) | 5.36 (2.02) |
| sweetheart | 424 | 8.42 (0.83) | 5.50 (2.73) | 6.03 (2.24) |
| swift | 1005 | 6.46 (1.76) | 5.39 (2.53) | 6.29 (1.85) |
| swimmer | 576 | 6.54 (1.64) | 4.82 (2.49) | 5.96 (1.91) |
| swing | 2306 | 7.20 (1.49) | 5.53 (2.13) | 5.33 (1.81) |
| swipe | 2307 | 4.86 (1.46) | 4.33 (1.82) | 5.11 (1.97) |
| sword | 2308 | 5.52 (2.14) | 6.08 (1.82) | 5.62 (1.88) |
| sympathy | 2309 | 5.33 (1.97) | 5.03 (1.96) | 4.73 (1.7) |
| syphilis | 425 | 1.68 (1.23) | 5.69 (3.25) | 3.33 (2.67) |
| syrup | 2310 | 6.07 (1.28) | 4.69 (2.16) | 5.86 (1.3) |
| system | 2311 | 5.37 (1.3) | 3.93 (1.91) | 5.37 (1.88) |
| table | 426 | 5.22 (0.72) | 2.92 (2.16) | 4.47 (1.66) |
| taint | 2312 | 3.92 (1.65) | 4.85 (1.71) | 4.35 (1.7) |
| tale | 2313 | 6.43 (1.89) | 4.13 (2) | 5.50 (2.01) |
| talent | 427 | 7.56 (1.25) | 6.27 (1.8) | 6.49 (1.75) |
| tall | 2314 | 6.64 (1.85) | 4.82 (2.6) | 5.57 (2.57) |
| tamper | 1006 | 4.10 (1.88) | 4.95 (2.01) | 4.58 (2.1) |
| tangle | 2315 | 3.97 (1.45) | 5.66 (1.79) | 4.66 (1.54) |
| tank | 613 | 5.16 (1.87) | 4.88 (1.86) | 4.78 (1.93) |
| tar | 2316 | 4.31 (1.46) | 4.46 (1.58) | 4.50 (1.88) |
| task | 2317 | 4.79 (1.52) | 4.72 (1.65) | 5.93 (2.03) |
| taste | 1007 | 6.66 (1.57) | 5.22 (2.38) | 5.50 (1.65) |
| tatter | 2318 | 4.53 (1.7) | 3.90 (1.93) | 4.50 (1.23) |
| tattoo | 2319 | 5.62 (2.11) | 6.06 (1.88) | 5.69 (1.99) |
| taunt | 2320 | 3.61 (1.71) | 5.55 (1.8) | 4.90 (1.97) |
| tavern | 2321 | 5.81 (1.42) | 5.00 (1.98) | 5.48 (1.29) |
| taxi | 1008 | 5.00 (1.96) | 3.41 (2.14) | 4.64 (1.83) |
| tea | 2322 | 5.87 (2.39) | 4.13 (2.26) | 5.71 (1.96) |
| teach | 2323 | 5.89 (1.95) | 5.59 (1.89) | 5.88 (2.3) |
| teacher | 1009 | 5.68 (2.12) | 4.05 (2.61) | 5.11 (2.2) |
| team | 2324 | 7.43 (1.3) | 5.93 (2.23) | 5.90 (2.23) |
| tease | 1010 | 4.84 (2.51) | 5.87 (2.56) | 4.67 (2.37) |
| teenager | 2325 | 6.41 (2) | 6.33 (2.13) | 4.67 (2.25) |
| teeter | 2326 | 5.18 (1.72) | 5.30 (2.18) | 4.56 (2.22) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| teeth | 2327 | 5.46 (1.36) | 4.77 (2.29) | 4.85 (2.24) |
| tempo | 2328 | 5.89 (1.74) | 5.04 (2.25) | 5.96 (1.66) |
| temptation | 2329 | 4.94 (1.98) | 5.88 (1.96) | 4.50 (2.26) |
| tend | 2330 | 5.55 (1.62) | 3.93 (2.46) | 5.43 (2.35) |
| tender | 1011 | 6.93 (1.28) | 4.88 (2.3) | 5.33 (1.75) |
| tendon | 2331 | 4.90 (1.22) | 4.90 (2.22) | 4.83 (2.2) |
| tennis | 540 | 6.02 (1.97) | 4.61 (2.6) | 5.61 (2.12) |
| tense | 428 | 3.56 (1.36) | 6.53 (2.1) | 5.22 (2.02) |
| termite | 429 | 3.58 (2.08) | 5.39 (2.43) | 3.87 (1.87) |
| terrace | 2332 | 5.55 (1.5) | 4.71 (1.76) | 5.00 (1.59) |
| terrible | 430 | 1.93 (1.44) | 6.27 (2.44) | 3.58 (2.34) |
| terrific | 431 | 8.16 (1.12) | 6.23 (2.73) | 6.60 (2.15) |
| terrified | 432 | 1.72 (1.14) | 7.86 (2.27) | 3.08 (2.75) |
| terror | 2333 | 2.75 (2.2) | 7.07 (2.32) | 2.71 (2.16) |
| terrorist | 614 | 1.69 (1.42) | 7.27 (2.38) | 2.65 (2.3) |
| testicles | 2334 | 5.38 (1.1) | 5.25 (1.92) | 5.81 (1.51) |
| thankful | 433 | 6.89 (2.29) | 4.34 (2.31) | 5.32 (2) |
| theater | 2335 | 6.69 (1.42) | 5.86 (1.57) | 5.45 (1.48) |
| theft | 2336 | 2.67 (1.49) | 5.96 (2.56) | 3.27 (2.07) |
| theory | 434 | 5.30 (1.49) | 4.62 (1.94) | 4.88 (1.81) |
| therapy | 2337 | 4.42 (2.25) | 4.57 (2.29) | 4.03 (2.33) |
| thermometer | 1012 | 4.73 (1.05) | 3.79 (2.02) | 4.39 (1.51) |
| thief | 435 | 2.13 (1.69) | 6.89 (2.13) | 3.79 (2.55) |
| thigh | 2338 | 5.77 (1.36) | 5.47 (1.98) | 5.60 (1.43) |
| thin | 2339 | 6.43 (1.71) | 5.57 (2.08) | 5.36 (2.16) |
| thing | 2340 | 4.83 (0.83) | 4.17 (1.72) | 4.77 (1.28) |
| think | 2341 | 6.41 (1.88) | 5.34 (2.48) | 6.38 (2.19) |
| thirst | 2342 | 3.37 (1.81) | 5.03 (1.97) | 3.93 (1.95) |
| thirsty | 2343 | 3.61 (1.63) | 5.67 (1.45) | 3.77 (1.36) |
| thong | 2344 | 6.69 (1.99) | 5.78 (2.52) | 6.69 (1.69) |
| thorn | 436 | 3.64 (1.76) | 5.14 (2.14) | 4.45 (1.5) |
| thought | 1013 | 6.39 (1.58) | 4.83 (2.46) | 6.02 (1.7) |
| thoughtful | 437 | 7.65 (1.03) | 5.72 (2.3) | 5.61 (2.11) |
| threat | 2345 | 2.50 (1.21) | 6.08 (2.48) | 3.27 (2.03) |
| thrift | 2346 | 4.90 (1.73) | 4.43 (1.72) | 5.23 (1.36) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| thrill | 438 | 8.05 (1.48) | 8.02 (1.65) | 6.54 (2.3) |
| thrilled | 2347 | 7.81 (1.19) | 7.47 (1.72) | 6.13 (1.25) |
| thrive | 2348 | 7.45 (1.57) | 6.03 (2.24) | 6.29 (1.76) |
| thud | 2349 | 4.47 (0.97) | 5.20 (1.35) | 4.87 (0.97) |
| thug | 2350 | 3.86 (1.63) | 5.32 (2.02) | 3.96 (2.01) |
| thumb | 2351 | 5.52 (1.24) | 4.54 (1.91) | 5.25 (1.69) |
| tick | 2352 | 3.72 (1.56) | 4.14 (2.27) | 4.18 (1.61) |
| ticket | 2353 | 5.46 (2.56) | 5.79 (2.59) | 5.14 (2.26) |
| tickle | 2354 | 6.86 (2.14) | 6.70 (2.16) | 4.07 (2.37) |
| tidy | 1014 | 6.30 (1.56) | 3.98 (2.22) | 5.49 (1.93) |
| tiger | 2355 | 5.89 (2.45) | 6.41 (2.42) | 3.44 (2.15) |
| time | 439 | 5.31 (2.02) | 4.64 (2.75) | 4.63 (2.24) |
| timid | 440 | 3.86 (1.55) | 4.11 (2.09) | 3.09 (1.91) |
| tire | 2356 | 4.97 (1.5) | 4.00 (2) | 5.03 (1.12) |
| tired | 2357 | 3.28 (1.69) | 2.64 (1.5) | 3.96 (2.1) |
| tissue | 2358 | 4.93 (1.62) | 3.63 (2.11) | 5.07 (1.8) |
| title | 2359 | 5.80 (1.81) | 4.93 (1.84) | 5.89 (2.15) |
| toad | 2360 | 4.59 (1.68) | 4.76 (2.34) | 4.45 (1.82) |
| tobacco | 441 | 3.28 (2.16) | 4.83 (2.9) | 4.08 (2.27) |
| toddler | 2361 | 6.97 (1.54) | 5.68 (2.01) | 6.55 (1.88) |
| toil | 2362 | 4.20 (1.63) | 5.04 (1.77) | 4.56 (1.94) |
| toilet | 2363 | 4.66 (1.8) | 3.96 (1.95) | 5.26 (1.02) |
| tomato | 2364 | 5.45 (1.97) | 3.79 (2.02) | 5.36 (1.52) |
| tomb | 442 | 2.94 (1.88) | 4.73 (2.72) | 3.72 (2.05) |
| ton | 2365 | 4.68 (1.47) | 4.33 (1.98) | 5.04 (2.17) |
| tool | 1015 | 5.19 (1.27) | 4.33 (1.78) | 5.67 (1.62) |
| tooth | 2366 | 5.19 (1.26) | 4.66 (1.98) | 5.06 (1.39) |
| toothache | 443 | 1.98 (1.15) | 5.55 (2.51) | 3.90 (1.85) |
| topless | 2367 | 6.93 (2.12) | 6.67 (2.4) | 6.30 (1.97) |
| topple | 2368 | 3.93 (1.9) | 5.46 (2.33) | 4.25 (2.3) |
| tornado | 444 | 2.55 (1.78) | 6.83 (2.49) | 4.30 (2.42) |
| torte | 2369 | 5.33 (1.09) | 4.30 (1.74) | 4.97 (1.03) |
| torture | 445 | 1.56 (0.79) | 6.10 (2.77) | 3.33 (2.37) |
| total | 2370 | 5.74 (1.63) | 4.81 (2.22) | 5.30 (1.64) |
| touch | 2371 | 6.31 (1.49) | 6.19 (2.08) | 5.81 (1.67) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| tourist | 2372 | 5.66 (1.59) | 4.52 (1.77) | 5.38 (1.45) |
| tow | 2373 | 3.63 (1.63) | 4.67 (2.29) | 4.00 (2.26) |
| towel | 2374 | 5.75 (1.55) | 4.19 (2.47) | 5.69 (1.65) |
| tower | 1016 | 5.46 (1.75) | 3.95 (2.28) | 5.78 (2.14) |
| town | 2375 | 5.93 (1.61) | 4.29 (2.31) | 4.64 (1.73) |
| toxic | 446 | 2.10 (1.48) | 6.40 (2.41) | 4.42 (2.51) |
| toy | 1017 | 7.00 (2.01) | 5.11 (2.84) | 6.09 (1.84) |
| traffic | 2376 | 2.27 (1.31) | 5.80 (2.52) | 2.57 (1.68) |
| tragedy | 447 | 1.78 (1.31) | 6.24 (2.64) | 3.50 (2.34) |
| train | 2377 | 5.59 (1.25) | 4.85 (2.36) | 5.04 (1.87) |
| trait | 2378 | 6.04 (1.81) | 4.04 (2.53) | 4.07 (2.07) |
| traitor | 448 | 2.22 (1.69) | 5.78 (2.47) | 4.61 (2.71) |
| trash | 615 | 2.67 (1.45) | 4.16 (2.16) | 5.24 (1.85) |
| trauma | 616 | 2.10 (1.49) | 6.33 (2.45) | 2.84 (1.87) |
| travel | 1018 | 7.10 (2) | 6.21 (2.51) | 6.31 (2.08) |
| tray | 2379 | 5.10 (1.03) | 3.67 (1.77) | 5.17 (1.21) |
| tread | 2380 | 5.31 (1.31) | 4.97 (1.99) | 4.86 (1.53) |
| treasure | 449 | 8.27 (0.9) | 6.75 (2.3) | 6.36 (2.42) |
| treat | 1019 | 7.36 (1.38) | 5.62 (2.25) | 5.78 (1.82) |
| treatment | 2381 | 5.24 (2.13) | 5.52 (1.7) | 4.48 (1.82) |
| tree | 450 | 6.32 (1.56) | 3.42 (2.21) | 5.08 (2.29) |
| tremor | 2382 | 3.94 (1.22) | 5.41 (2.17) | 3.34 (1.79) |
| trend | 2383 | 5.40 (2.03) | 5.03 (2.01) | 4.40 (1.87) |
| tribe | 2384 | 5.61 (1.77) | 4.68 (2.33) | 5.00 (1.96) |
| trick | 2385 | 4.97 (2.5) | 6.10 (1.73) | 4.60 (1.99) |
| trip | 2386 | 6.96 (1.74) | 6.30 (2.05) | 5.00 (2.08) |
| triumph | 451 | 7.80 (1.83) | 5.78 (2.6) | 6.98 (2.2) |
| triumphant | 452 | 8.82 (0.73) | 6.78 (2.58) | 6.95 (2.55) |
| trivia | 2387 | 5.77 (1.66) | 5.00 (2.32) | 5.15 (1.8) |
| trophy | 453 | 7.78 (1.22) | 5.39 (2.44) | 6.44 (2.32) |
| trouble | 454 | 3.03 (2.09) | 6.85 (2.03) | 4.85 (2.39) |
| troubled | 455 | 2.17 (1.21) | 5.94 (2.36) | 3.91 (2.33) |
| trout | 2388 | 5.57 (1.57) | 4.40 (2.09) | 5.67 (2.09) |
| truce | 2389 | 6.62 (1.45) | 4.82 (2.06) | 6.11 (1.03) |
| truck | 577 | 5.47 (1.88) | 4.84 (2.17) | 5.33 (1.83) |

| Description | Word No. | Valence Mean(SD) | | Arousal Mean(SD) | | Dominance Mean (SD) | | Description | Word No. | Valence Mean(SD) | | Arousal Mean(SD) | | Dominance Mean (SD) | |
|---------------|----------|------------------|--------|------------------|--------|---------------------|--------|-------------|----------|------------------|--------|------------------|--------|---------------------|--------|
| true | 2390 | 6.96 | (1.32) | 5.11 | (2.06) | 6.00 | (1.39) | urine | 617 | 3.25 | (1.71) | 4.20 | (2.18) | 5.24 | (1.86) |
| trumpet | 456 | 5.75 | (1.38) | 4.97 | (2.13) | 4.57 | (1.72) | usage | 2410 | 4.93 | (1.13) | 4.90 | (1.57) | 4.97 | (1.3) |
| trunk | 1020 | 5.09 | (1.57) | 4.18 | (2.19) | 5.14 | (1.9) | useful | 466 | 7.14 | (1.6) | 4.26 | (2.47) | 5.93 | (2.1) |
| trust | 457 | 6.68 | (2.71) | 5.30 | (2.66) | 6.61 | (2.04) | useless | 467 | 2.13 | (1.42) | 4.87 | (2.58) | 3.92 | (2.62) |
| truth | 458 | 7.80 | (1.29) | 5.00 | (2.77) | 6.47 | (2.11) | utensil | 1024 | 5.14 | (1.39) | 3.57 | (1.98) | 5.40 | (1.47) |
| tulip | 2391 | 6.83 | (1.81) | 4.52 | (2.37) | 5.69 | (2.19) | vacation | 468 | 8.16 | (1.36) | 5.64 | (2.99) | 6.80 | (2.08) |
| tumor | 459 | 2.36 | (2.04) | 6.51 | (2.85) | 3.58 | (2.42) | vagina | 1025 | 6.14 | (1.77) | 5.55 | (2.55) | 5.88 | (1.74) |
| tune | 1021 | 6.93 | (1.47) | 4.71 | (2.09) | 5.74 | (1.82) | valentine | 469 | 8.11 | (1.35) | 6.06 | (2.91) | 5.81 | (2.45) |
| turkey | 2392 | 6.48 | (1.92) | 5.04 | (2.54) | 6.12 | (1.62) | valley | 2411 | 5.46 | (1.55) | 3.70 | (1.88) | 4.74 | (1.85) |
| turmoil | 2393 | 2.71 | (2.04) | 5.87 | (2.53) | 3.20 | (2.16) | vampire | 470 | 4.26 | (1.86) | 6.37 | (2.35) | 5.05 | (2.27) |
| turtle | 2394 | 6.78 | (1.53) | 4.85 | (2.3) | 5.07 | (1.96) | van | 2412 | 4.97 | (1.77) | 3.86 | (2.42) | 5.03 | (1.52) |
| tusk | 2395 | 5.41 | (1.43) | 4.46 | (2.05) | 4.93 | (1.46) | vandal | 471 | 2.71 | (1.91) | 6.40 | (1.88) | 3.91 | (2.49) |
| twelve | 2396 | 5.24 | (1.43) | 3.66 | (2.16) | 5.31 | (1.73) | vanish | 2413 | 3.83 | (2.28) | 5.29 | (2.32) | 3.18 | (2.07) |
| twilight | 1022 | 7.23 | (1.8) | 4.70 | (2.41) | 5.59 | (1.82) | vanity | 472 | 4.30 | (1.91) | 4.98 | (2.31) | 4.80 | (2.03) |
| twins | 2397 | 6.24 | (1.33) | 5.17 | (1.93) | 5.21 | (1.72) | vase | 2414 | 4.97 | (1.18) | 3.90 | (2.14) | 5.41 | (1.52) |
| tyrant | 2398 | 3.25 | (2.05) | 5.71 | (2.35) | 3.14 | (2.35) | vegetable | 2415 | 5.40 | (2.06) | 4.07 | (2.16) | 5.27 | (2) |
| ugly | 460 | 2.43 | (1.27) | 5.38 | (2.23) | 4.26 | (2.33) | vehicle | 473 | 6.27 | (2.34) | 4.63 | (2.81) | 5.77 | (2.61) |
| ulcer | 461 | 1.78 | (1.17) | 6.12 | (2.68) | 4.17 | (2.22) | venom | 474 | 2.68 | (1.81) | 6.08 | (2.44) | 3.94 | (2.23) |
| umbrella | 578 | 5.16 | (1.57) | 3.68 | (1.99) | 5.42 | (1.91) | vessel | 2416 | 5.50 | (1.68) | 4.31 | (1.81) | 5.34 | (1.8) |
| uncertain | 2399 | 3.45 | (1.43) | 4.79 | (2.6) | 3.37 | (1.9) | vest | 1026 | 5.25 | (1.33) | 3.95 | (2.09) | 5.09 | (1.24) |
| uncomfortable | 2400 | 2.97 | (1.6) | 6.06 | (1.98) | 3.42 | (1.77) | vibrator | 2417 | 6.17 | (2.36) | 6.39 | (2.22) | 5.54 | (2.2) |
| understand | 2401 | 7.13 | (1.89) | 5.00 | (2.08) | 6.77 | (2.03) | vice | 2418 | 4.43 | (2.25) | 5.30 | (2.1) | 5.23 | (2.18) |
| uneasy | 2402 | 3.07 | (1.91) | 6.03 | (2.29) | 3.24 | (1.79) | victim | 618 | 2.18 | (1.48) | 6.06 | (2.32) | 2.69 | (2.04) |
| unfaithful | 462 | 2.05 | (1.55) | 6.20 | (2.7) | 3.02 | (2.54) | victory | 475 | 8.32 | (1.16) | 6.63 | (2.84) | 7.26 | (2.14) |
| unhappy | 463 | 1.57 | (0.96) | 4.18 | (2.5) | 3.34 | (2.35) | video | 2419 | 7.30 | (1.42) | 5.67 | (2.15) | 5.77 | (1.45) |
| unify | 2403 | 6.90 | (2.06) | 4.93 | (2.53) | 5.83 | (2.36) | vigor | 2420 | 5.85 | (1.78) | 5.77 | (1.97) | 5.73 | (1.64) |
| union | 2404 | 6.48 | (1.66) | 4.79 | (1.88) | 6.14 | (1.55) | vigorous | 476 | 6.79 | (1.54) | 5.90 | (2.66) | 5.41 | (2.22) |
| unit | 1023 | 5.59 | (1.87) | 3.75 | (2.49) | 5.11 | (1.74) | village | 477 | 5.92 | (1.34) | 4.08 | (1.87) | 4.94 | (1.74) |
| unite | 2405 | 6.77 | (1.59) | 5.81 | (1.96) | 6.10 | (1.54) | vine | 2421 | 5.36 | (1.64) | 4.48 | (2.17) | 4.75 | (1.9) |
| unity | 2406 | 7.29 | (1.44) | 4.64 | (2.68) | 6.43 | (1.73) | violent | 478 | 2.29 | (1.78) | 6.89 | (2.47) | 5.16 | (2.86) |
| unsafe | 2407 | 2.82 | (1.81) | 6.18 | (2.64) | 3.67 | (2.54) | violin | 579 | 5.43 | (1.98) | 3.49 | (2.26) | 5.18 | (2.01) |
| unsure | 2408 | 3.03 | (1.52) | 5.97 | (1.99) | 3.60 | (2.03) | violinist | 2422 | 6.32 | (1.57) | 4.33 | (2.24) | 5.38 | (1.93) |
| untroubled | 464 | 7.62 | (1.41) | 3.89 | (2.54) | 5.53 | (2.54) | virgin | 1027 | 6.45 | (1.76) | 5.51 | (2.06) | 6.24 | (2.48) |
| upset | 465 | 2.00 | (1.18) | 5.86 | (2.4) | 4.08 | (2.31) | virtue | 479 | 6.22 | (2.06) | 4.52 | (2.52) | 6.13 | (2.09) |
| urinate | 2409 | 5.59 | (1.58) | 4.10 | (2.34) | 5.45 | (2.41) | virus | 2423 | 2.50 | (1.75) | 5.46 | (2.66) | 2.79 | (1.55) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| vision | 480 | 6.62 (1.84) | 4.66 (2.43) | 6.02 (1.96) |
| vista | 2424 | 5.10 (1.81) | 4.57 (2.03) | 4.63 (1.5) |
| vodka | 2425 | 5.52 (2.34) | 5.86 (2.37) | 5.00 (2.05) |
| volcano | 619 | 4.84 (2.14) | 6.33 (2.21) | 3.25 (1.97) |
| vomit | 481 | 2.06 (1.57) | 5.75 (2.84) | 3.58 (2.45) |
| vote | 2426 | 6.63 (1.59) | 5.30 (2.22) | 6.93 (2.07) |
| vow | 2427 | 6.08 (2.04) | 5.35 (1.98) | 5.92 (2) |
| vows | 2428 | 6.48 (1.79) | 6.13 (1.71) | 5.61 (1.75) |
| voyage | 1028 | 6.25 (1.91) | 5.55 (2.23) | 5.18 (1.98) |
| wagon | 1029 | 5.37 (0.97) | 3.98 (2.04) | 5.05 (1.2) |
| wail | 2429 | 3.63 (1.94) | 5.50 (1.63) | 4.53 (1.57) |
| wall | 2430 | 4.76 (1.21) | 4.18 (1.87) | 4.41 (1.78) |
| wander | 2431 | 5.27 (1.6) | 4.93 (1.72) | 5.43 (2.16) |
| wane | 2432 | 4.39 (1.81) | 4.54 (2.01) | 3.96 (1.71) |
| want | 2433 | 5.25 (2.08) | 6.00 (2.11) | 4.54 (2.13) |
| war | 482 | 2.08 (1.91) | 7.49 (2.16) | 4.50 (3) |
| warden | 2434 | 3.79 (1.68) | 4.24 (2.01) | 3.41 (1.88) |
| warehouse | 2435 | 5.13 (1.55) | 4.00 (1.97) | 4.72 (1.51) |
| warm | 2436 | 6.50 (1.2) | 5.14 (1.92) | 5.36 (1.25) |
| warmth | 483 | 7.41 (1.81) | 3.73 (2.4) | 5.61 (1.67) |
| warn | 2437 | 4.20 (1.52) | 5.37 (2.19) | 4.60 (1.77) |
| wart | 2438 | 2.41 (1.36) | 4.34 (2.5) | 3.62 (1.52) |
| wasp | 484 | 3.37 (1.63) | 5.50 (2.17) | 3.76 (1.82) |
| waste | 485 | 2.93 (1.76) | 4.14 (2.3) | 4.72 (1.94) |
| watch | 580 | 5.78 (1.51) | 4.10 (2.12) | 5.37 (1.75) |
| water | 486 | 6.61 (1.78) | 4.97 (2.49) | 5.08 (1.99) |
| waterfall | 487 | 7.88 (1.03) | 5.37 (2.84) | 5.20 (2.18) |
| watermelon | 2439 | 6.52 (1.64) | 5.18 (1.74) | 5.79 (1.34) |
| waterskiing | 2440 | 7.00 (2.19) | 6.77 (2.18) | 5.60 (2.53) |
| wealth | 2441 | 7.70 (1.39) | 5.90 (2.11) | 6.70 (2.25) |
| wealthy | 488 | 7.70 (1.34) | 5.80 (2.73) | 6.77 (2.57) |
| weapon | 489 | 3.97 (1.92) | 6.03 (1.89) | 5.19 (2.61) |
| weary | 490 | 3.79 (2.12) | 3.81 (2.29) | 4.00 (1.91) |
| web | 2442 | 5.33 (1.69) | 4.30 (2.38) | 5.20 (1.47) |
| wed | 2443 | 6.75 (1.96) | 6.41 (2.26) | 5.56 (2.33) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|--------------|----------|------------------|------------------|---------------------|
| wedding | 491 | 7.82 (1.56) | 5.97 (2.85) | 6.68 (2.08) |
| week | 2444 | 5.35 (1.02) | 4.38 (1.7) | 4.92 (1.41) |
| weep | 2445 | 1.80 (1.24) | 5.07 (2.19) | 3.00 (1.79) |
| weight | 2446 | 4.28 (1.74) | 5.40 (1.96) | 4.92 (2.55) |
| weightlifter | 2447 | 5.93 (1.7) | 5.50 (2.08) | 5.57 (2.11) |
| welfare | 2448 | 3.36 (2.13) | 5.18 (2.54) | 2.82 (1.63) |
| wet | 2449 | 5.57 (1.76) | 5.57 (2.08) | 5.63 (1.67) |
| wheat | 2450 | 5.90 (1.32) | 4.03 (2.08) | 5.62 (1.24) |
| wheel | 2451 | 5.55 (0.83) | 4.86 (1.51) | 5.55 (1.24) |
| whistle | 1030 | 5.81 (1.21) | 4.69 (1.99) | 5.27 (1.87) |
| white | 542 | 6.47 (1.59) | 4.37 (2.14) | 5.98 (1.73) |
| whore | 492 | 2.30 (2.11) | 5.85 (2.93) | 4.61 (2.73) |
| wicked | 493 | 2.96 (2.37) | 6.09 (2.44) | 4.36 (2.65) |
| wife | 1031 | 6.33 (1.97) | 4.93 (2.22) | 5.57 (1.68) |
| wild | 2452 | 6.37 (1.4) | 6.43 (1.92) | 5.27 (1.89) |
| willing | 2453 | 6.60 (1.45) | 5.30 (1.82) | 6.00 (1.53) |
| win | 494 | 8.38 (0.92) | 7.72 (2.16) | 7.39 (2.36) |
| wince | 2454 | 3.85 (1.41) | 5.27 (1.8) | 4.69 (1.46) |
| windmill | 1032 | 5.60 (1.65) | 3.74 (2.13) | 5.24 (1.04) |
| window | 495 | 5.91 (1.38) | 3.97 (2.01) | 4.91 (1.6) |
| windshield | 2455 | 4.64 (0.99) | 4.22 (2.03) | 4.93 (1.41) |
| windsurfers | 2456 | 6.50 (1.57) | 6.30 (1.47) | 5.33 (1.84) |
| wine | 496 | 5.95 (2.19) | 4.78 (2.34) | 5.31 (2.15) |
| wings | 2457 | 6.39 (1.93) | 5.33 (2.27) | 4.96 (1.95) |
| wink | 1033 | 6.93 (1.83) | 5.44 (2.68) | 5.70 (1.77) |
| winner | 2458 | 8.24 (1.18) | 6.86 (2.46) | 7.72 (1.77) |
| winter | 2459 | 5.79 (2.61) | 5.32 (2.5) | 4.79 (2.04) |
| wires | 2460 | 4.63 (1.5) | 4.70 (2.02) | 4.73 (1.57) |
| wisdom | 2461 | 7.34 (1.45) | 5.25 (2.38) | 6.61 (1.66) |
| wise | 497 | 7.52 (1.23) | 3.91 (2.64) | 6.70 (2.39) |
| wish | 1034 | 7.09 (2) | 5.16 (2.62) | 5.28 (2.09) |
| wishful | 2462 | 7.50 (1.46) | 5.57 (2.36) | 5.27 (1.89) |
| wit | 1035 | 7.32 (1.9) | 5.42 (2.44) | 6.38 (2.01) |
| wolf | 2463 | 5.00 (2.35) | 6.70 (1.82) | 4.33 (2.31) |
| woman | 498 | 6.64 (1.76) | 5.32 (2.59) | 6.33 (1.52) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
| wonder | 499 | 6.03 (1.58) | 5.00 (2.23) | 5.32 (2.17) |
| wood | 2464 | 5.86 (1.84) | 4.67 (1.98) | 5.59 (1.19) |
| wool | 2465 | 5.27 (1.14) | 3.60 (2.04) | 5.17 (1.32) |
| work | 2466 | 3.96 (2.05) | 5.11 (2.28) | 4.11 (2.17) |
| worker | 2467 | 5.07 (1.53) | 4.73 (1.95) | 5.27 (1.86) |
| world | 500 | 6.50 (2.03) | 5.32 (2.39) | 5.26 (2.47) |
| worry | 2468 | 2.31 (1.51) | 6.00 (2.45) | 2.96 (2.22) |
| worth | 2469 | 6.15 (1.35) | 4.62 (2.12) | 5.23 (1.63) |
| wounds | 620 | 2.51 (1.58) | 5.82 (2.01) | 3.92 (1.57) |
| wrath | 2470 | 3.47 (2.33) | 5.60 (2.42) | 4.23 (2.53) |
| wreath | 2471 | 6.07 (1.36) | 4.64 (1.75) | 5.14 (1.04) |
| wring | 2472 | 4.81 (0.93) | 4.78 (1.52) | 5.03 (1.43) |
| writer | 1036 | 5.52 (1.9) | 4.33 (2.45) | 4.73 (1.84) |
| wrong | 2473 | 2.93 (1.8) | 4.67 (2.04) | 3.30 (1.8) |
| yacht | 1037 | 6.95 (1.79) | 5.61 (2.72) | 6.10 (2.13) |
| year | 2474 | 5.41 (1.41) | 4.22 (1.96) | 5.25 (1.3) |
| yellow | 545 | 5.61 (1.94) | 4.43 (2.05) | 5.47 (1.58) |
| yelp | 2475 | 3.69 (1.46) | 5.73 (1.95) | 4.27 (1.69) |
| yolk | 2476 | 5.48 (1.77) | 4.07 (2.14) | 5.04 (1.35) |
| young | 1038 | 6.89 (2.12) | 5.64 (2.51) | 5.30 (2.49) |
| youth | 1039 | 6.75 (2.29) | 5.67 (2.52) | 5.11 (2.55) |
| zeal | 2477 | 6.15 (1.66) | 5.41 (1.6) | 5.52 (1.5) |
| zealous | 2478 | 5.67 (2.02) | 5.47 (2.5) | 5.60 (1.73) |
| zest | 1040 | 6.79 (2.04) | 5.59 (2.66) | 6.00 (1.99) |
| zipper | 2479 | 5.39 (1.23) | 5.19 (1.9) | 5.63 (2) |
| zoom | 2480 | 6.56 (1.83) | 5.88 (2.35) | 5.91 (1.87) |

| Description | Word No. | Valence Mean(SD) | Arousal Mean(SD) | Dominance Mean (SD) |
|-------------|----------|------------------|------------------|---------------------|
|-------------|----------|------------------|------------------|---------------------|