**Tables Manifest**

This document provides an overview of the data files containing F2 through F5 data extracted from the corpus. The full OHCO for this digital analytic edition is : book identifier ('book\_id'), volume number ('vol\_num'), chapter number ('chap\_num'), recipe number ('recp\_num'), paragraph number ('para\_num'), sentence number ('sent\_num'), and token number ('token\_num').

**Core F2 Tables**

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| **Table** | **Description** |
| DOC.csv (17,176 x 6) | Standard documents (DOC) table with OHCO columns to paragraph level and an additional column for paragraph string (‘para\_str’). There is one row for each paragraph in the corpus. |
| LIB.csv (20 x 7) | Library (LIB) table. Columns include standard features (book\_id, author\_last, author\_full, book\_year, book\_title, book\_file) as well as an added variable of “period” which reflects the general time-period of the cookbook. There is one row per book in the corpus. |
| TOKEN.csv  (1048576 x 12) | Standard TOKEN table. Columns include full OHCO as well as part of speech tagging (pos\_tuple and pos), token string (token\_str), term string (term\_str) and term identifier (term\_id). There is one row per token in the corpus. |
| VOCAB.csv  (16,786 x 16) | Vocabulary (VOCAB) table. Includes term\_id, term\_str, word frequency (n), a number dummy variable (num), a stop-word dummy variable (stop), stems (stem\_porter and stem\_snowball), two term rank calculations (term\_rank and term\_rank2), term percentage (p), three Zipf k measures (zipf\_k, zipf\_k2, zipf\_k3) and three separate TFIDF sums based on different bags (TFIDF\_sum\_period, TFIDF\_sum\_book, and TFIDF\_sum\_recipe). There is one row per term in the corpus. |

**Embeddings**

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| **Table** | **Description** |
| Embeddings\_mid1800s.csv  (845 x 19) | Word embeddings for the corpus of cookbooks written in the mid-1800s. Includes the columns from the VOCAB tables, as well as a vector column representing the embeddings generated from Word2Vec and an x and y coordinate generated by T-SNE. Links to VOCAB table via “term\_str.” |
| Emeddings\_late1800s.csv  (918 x 19) | Contains word embeddings for the corpus of cookbooks written in the late-1800s. Includes the columns from the VOCAB tables, as well as a vector column representing the embeddings generated from Word2Vec and an x and y are the coordinate generated by T-SNE. Links to VOCAB table via “term\_str.” |
| Embeddings\_1900s.csv  (942 x 19) | Contains word embeddings for the corpus of cookbooks written in the early-1900s. . Includes the columns from the VOCAB tables, as well as a vector column representing the embeddings generated from Word2Vec and an x and y are the coordinate generated by T-SNE. Links to VOCAB table via “term\_str.” |

**Sentiment**

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| **Table** | **Description** |
| Emolex\_sentiment.csv  (3688 x 11) | The emolex lexicon, with columns for term\_str, NRC sentiment type (nrc\_anger, nrc\_anticipation, nrc\_disgust, nrc\_fear, nrc\_joy, nrc\_sadness, nrc\_suprise, nrc\_trust) and NRC sentiment direction (nrc\_negative and nrc\_positive). This was not generated by us, but is necessary for our code to run. Links to the VOCAB table through “term\_str.” |
| Sentiment\_book.csv  (20 x 24) | Sentiment scores for each book. NRC values come from the emolex lexicon, while the VADER scores come from the VADER engine Columns include period, book\_year, full OHCO, NRC sentiment types, NRC sentiment direction, VADER sentiment direction (VADER\_pos, VADER\_neg, VADER\_neu) and overall scores (overall\_NRC and VADER\_compound.) There is one row per book in the corpus. |
| Sentiment\_period.csv  (3 x 24) | Sentiment scores for each time period. NRC values come from the emolex lexicon, while the VADER scores come from the VADER engine. Column values are the same as for Sentiment\_book. There is one row per time period in the corpus. |

**TFIDF**

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| **Table** | **Description** |
| TFIDF\_book  (20 x 16,384) | TFIDF  Columns include period, book\_year, book\_id, and  There is one row per book in the corpus. |
| TFIDF\_recipe  (5,631 x 16,384) | TFIDF  Columns include period, book\_year, OHCO to the recipe level, and XXX. There is one row per recipe in the corpus. |
| TFIDF\_period  (3 x 16,384) | TFIDF  XX Columns: ‘period’ +  There is one row per period in the corpus. |

**Topic Model**

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| **Table** | **Description** |
| TOPICS.csv  (25 x 14) | A table of the top topics found in the corpus. Columns include topic identifier (topic\_id), top ten words in the topic (0 – 9), combined string of top words (label), an human-generated topic name (name) and the sum of THETA per topic (doc\_weight\_sum). There is one row per preset number of topics in the corpus. Can be bound to PHI or THETA using topic\_id. |
| PHI.csv  (25 x 5001) | A TOPIC-WORD language model indicating how much a topic likes a word. Columns consist of top 5,000 most frequent TOKEN strings as well as the topic\_id. There is one row per preset number of topics in the corpus. |
| THETA.csv  (14,846 x 29) | A DOC-TOPIC language model indicating how much a document likes a topic. Columns include the OHCO to paragraph level and the topic\_id of each topic (0 – 24). There is one row per paragraph in the corpus. |
| PARAS  (14,846 x 1) | F1 corpus and reduced version of DOC table with only regular nouns. Columns include partial OHCO to paragraph level and a paragraph string (para\_str). There is one row per paragraph in the corpus. Can be matched to DOC using OHCO, but not all DOC rows will have a match if they did not contain regular nouns. |
| LDA\_AUTHOR.csv  (25 x 14) | TOPIC table using author as bag. Columns include the topic\_id, 12 individual author names, and the human-generated topic labels (names). There is one row per preset number of topics in the corpus. |
| LDA\_PERIOD.csv  (25 x 6) | TOPIC table using period as bag. Columns include topic\_id, time period (1900s, late1800s, mid 1800s), top terms in the time period (topterms), and human-generated topic labels (names). There is one row per preset number of topics in the corpus. |

**PCA**

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| **Table** | **Description** |
| DCM\_book.csv  (20 x 10) | Document-Content Matrix for book as a bag. Columns include book\_id, book\_year, period, author last name (author), publication year (year), book title (title), a label string for plots (doc), and the three Principal Components (PC0, PC1, and PC2). There is one row per book. |
| DCM\_recipe.csv  (5631 x 10) | Document-Content Matrix for recipe as a bag. Columns are the same as for DCM\_book, but there is one row per recipe. |
| EIGPAIR\_book.csv  (4999 x 5001) | Eigen pairs using book as bag for term\_id components. Columns include term\_id, eigen value (eig\_val), explained variance (exp\_var) , and a column per term\_id for the top ~5000 significant terms. There is one row per term for the top ~5000 significant terms. |
| EIGPAIR\_recipe.csv  (4999 x 5001) | Eigen pairs using recipe as bag for term\_id components. Columns are the same as for EIGPAIR\_book. There is one row per term for the top ~5000 significant terms. |
| PCACOMPS\_book.csv  (3 x 5001) | Top three principal components using book as bag. Columns include principal component name (index), eig\_val, exp\_var, and a column for each term\_id for the top ~5000 most significant terms. There is one per principal component per row. |
| PCACOMPS\_recipe.csv  (3 x 5001) | Top three principal components using recipe as bag. Columns and rows are the same as for PCACOMPS\_book. |
| PCALOADINGS\_book.csv  (4999 x 5) | PCA Loadings for the top 3 components using book as a bag. Columns include term\_id, term\_str, and three principal components (PC0, PC1, PC2). There is one row per term for the top ~5000 significant terms. |
| PCALOADINGS\_recipe.csv  (4999 x 5) | PCA Loadings for the top 3 components using recipe as a bag. Columns include term\_id, term\_str, and three principal components (PC0, PC1, PC2). There is one row per term for the top ~5000 significant terms. |
| COV\_book.csv  (4999 x 4999) | A covariance matrix of features for book. There is one row and one column for each of the top ~5000 most significant terms. |
| COV\_recipe.csv  (4999 x 4999) | A covariance matrix of features for recipe. There is one row and one column for each of the top ~5000 most significant terms. |