



Title	Statistical Approaches to the Quantification of Regularity in Languages and Dialects : An Exercise in Ainu Dialects of Asai (1974)
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Statistical Approaches to the Quantification of Regularity in Language and Dialect: An Exercise in Ainu Dialects of Asai (1974)

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Keywords: Ainu language, phonological correspondence, feature engineering,
multidimensional visualization, quantitative descriptive linguistics

Supplementary Materials

The supplementary materials show the figures of the quantified scores obtained by homogeneity analysis, as dealt with in Section 5.2 in the main body of this paper.

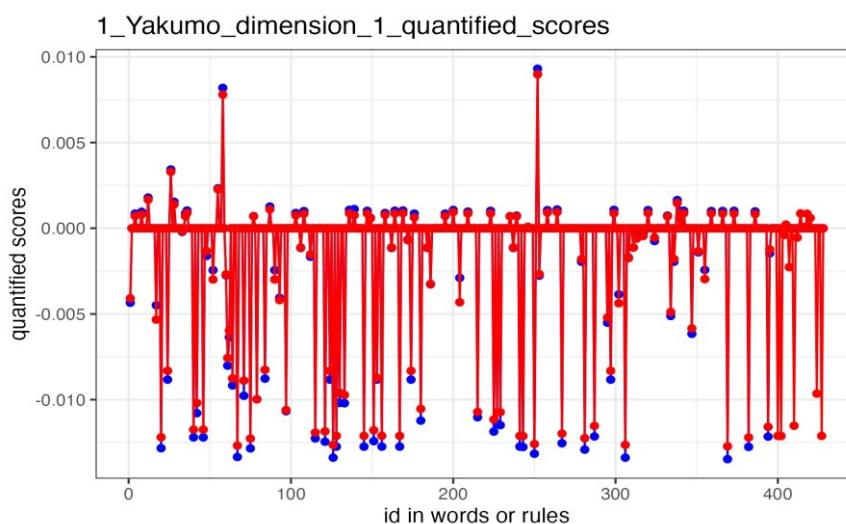


Figure A: The assigned number to lexical forms and types of the first dimension in Yakumo dialect. Blue line: the quantified scores in Data 1. Red line: the quantified scores in Data 2. Note that the quantified score of 398 lexical forms in the 110 lexical items of Asai (1974) corresponds to the value of 1-398 IDs and the quantified score of 25 types in the 13 regularities corresponds to the value of 399-423 IDs in horizontal axis.

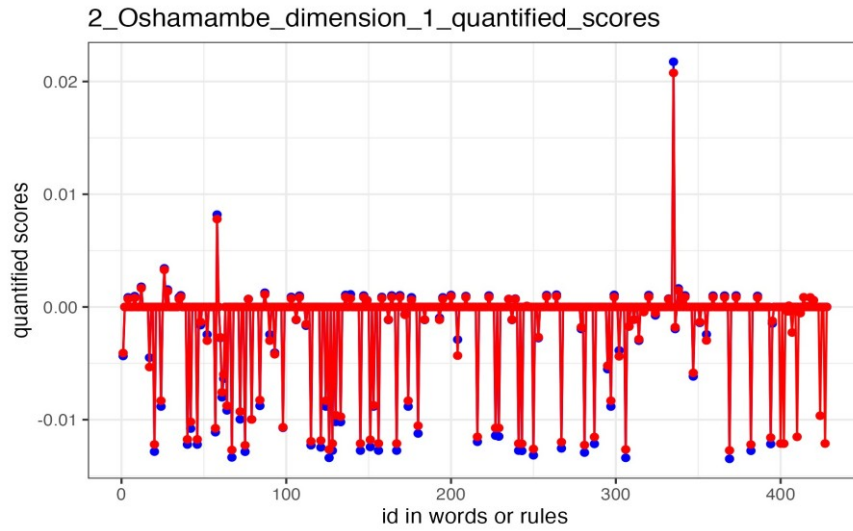


Figure B: The assigned number to lexical forms and types of the first dimension in Oshamambe dialect. Blue line: the quantified scores in Data 1. Red line: the quantified scores in Data 2. Note that the quantified score of 398 lexical forms in the 110 lexical items of Asai (1974) corresponds to the value of 1-398 IDs and the quantified score of 25 types in the 13 regularities corresponds to the value of 399-423 IDs in horizontal axis.

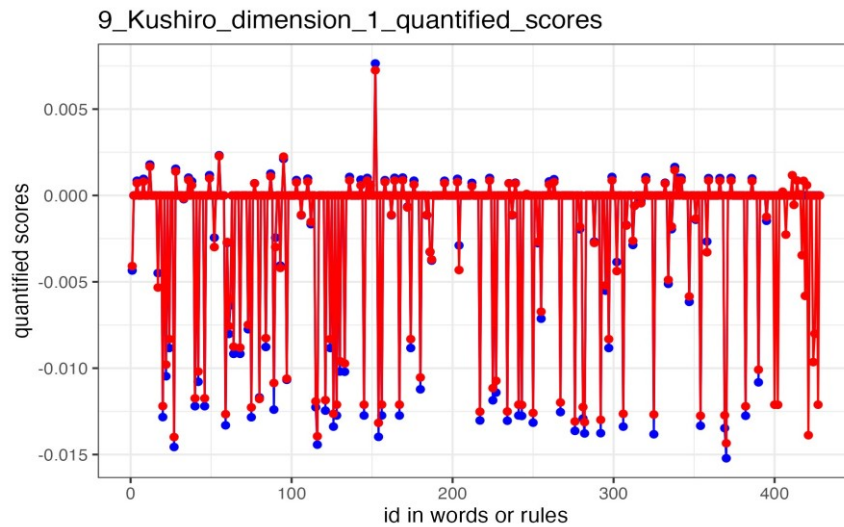


Figure C: The assigned number to lexical forms and types of the first dimension in Kushiro dialect. Blue line: the quantified scores in Data 1. Red line: the quantified scores in Data 2. Note that the quantified score of 398 lexical forms in the 110 lexical items of Asai (1974) corresponds to the value of 1-398 IDs and the quantified score of 25 types in the 13 regularities corresponds to the value of 399-423 IDs in horizontal axis.

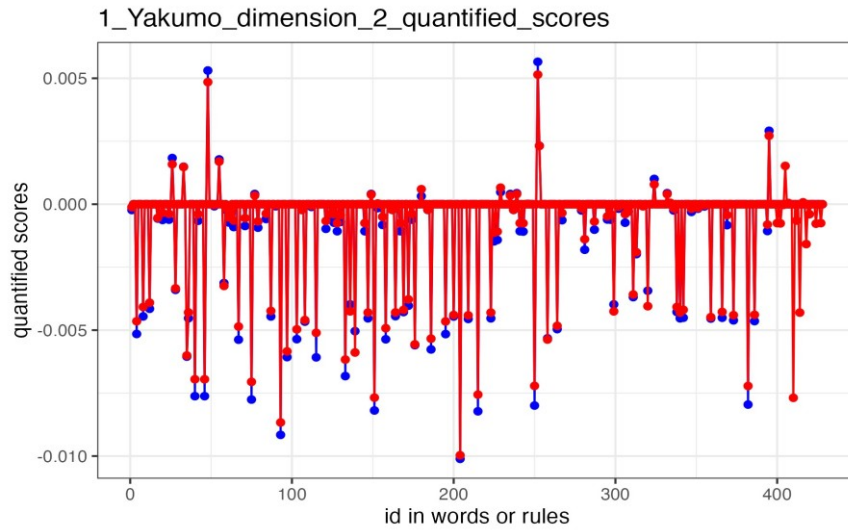


Figure D: The assigned number to lexical forms and types of the second dimension in Yakumo dialect. Blue line: the quantified scores in Data 1. Red line: the quantified scores in Data 2. Note that the quantified score of 398 lexical forms in the 110 lexical items of Asai (1974) corresponds to the value of 1-398 IDs and the quantified score of 25 types in the 13 regularities corresponds to the value of 399-423 IDs in horizontal axis.

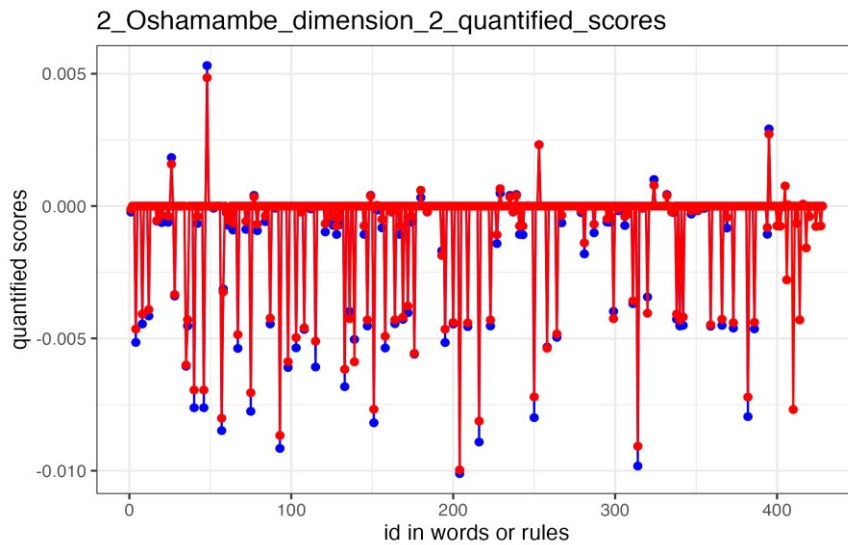


Figure E: The assigned number to lexical forms and types of the second dimension in Oshamambe dialect. Blue line: the quantified scores in Data 1. Red line: the quantified scores in Data 2. Note that the quantified score of 398 lexical forms in the 110 lexical items of Asai (1974) corresponds to the value of 1-398 IDs and the quantified score of 25 types in the 13 regularities corresponds to the value of 399-423 IDs in horizontal axis.

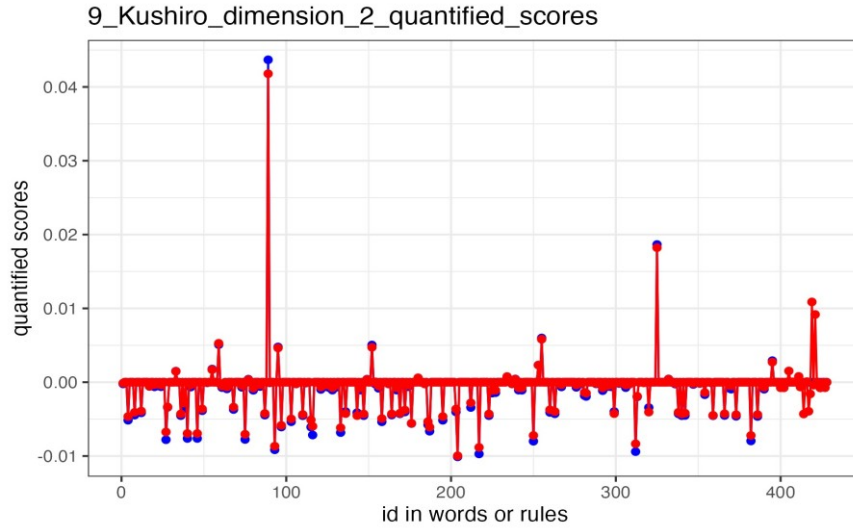


Figure F: The assigned number to lexical forms and types of the second dimension in Kushiro dialect. Blue line: the quantified scores in Data 1. Red line: the quantified scores in Data 2. Note that the quantified score of 398 lexical forms in the 110 lexical items of Asai (1974) corresponds to the value of 1-398 IDs and the quantified score of 25 types in the 13 regularities corresponds to the value of 399-423 IDs in horizontal axis.

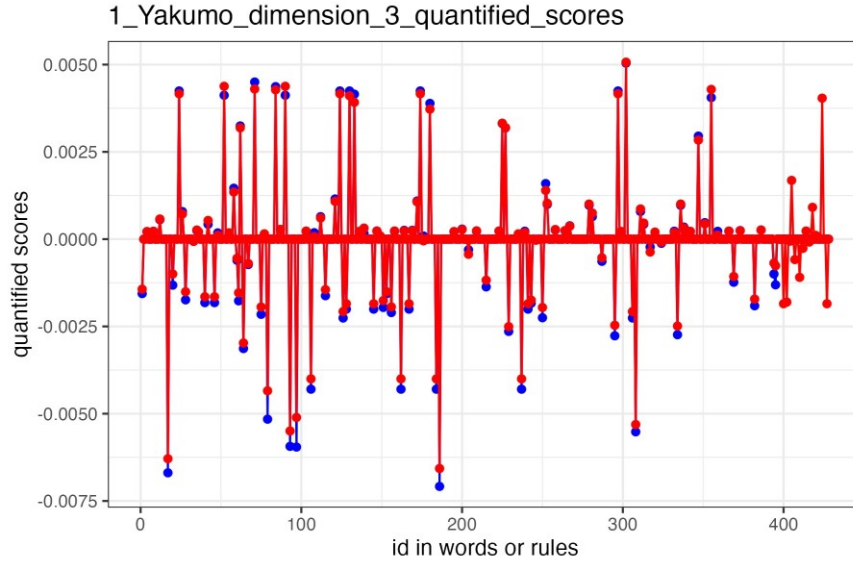


Figure G: The assigned number to lexical forms and types of the third dimension in Yakumo dialect. Blue line: the quantified scores in Data 1. Red line: the quantified scores in Data 2. Note that the quantified score of 398 lexical forms in the 110 lexical items of Asai (1974) corresponds to the value of 1-398 IDs and the quantified score of 25 types in the 13 regularities corresponds to the value of 399-423 IDs in horizontal axis.

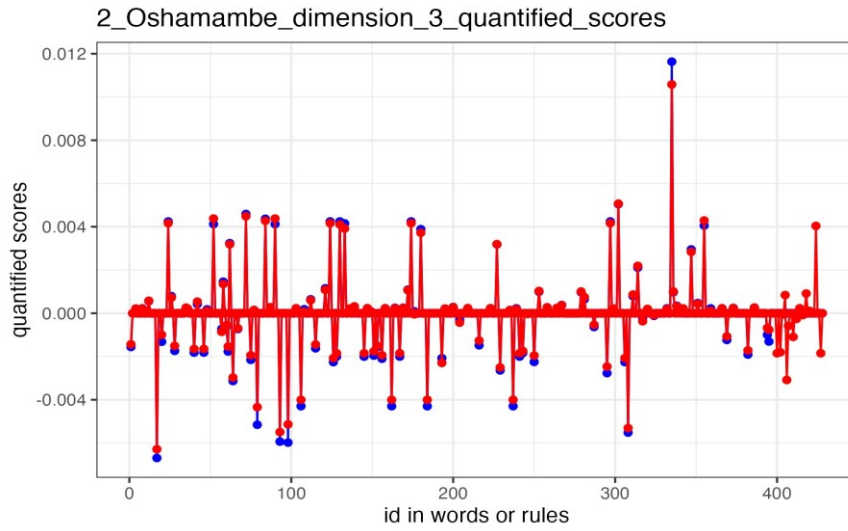


Figure H: The assigned number to lexical forms and types of the third dimension in Oshamambe dialect. Blue line: the quantified scores in Data 1. Red line: the quantified scores in Data 2. Note that the quantified score of 398 lexical forms in the 110 lexical items of Asai (1974) corresponds to the value of 1-398 IDs and the quantified score of 25 types in the 13 regularities corresponds to the value of 399-423 IDs in horizontal axis.

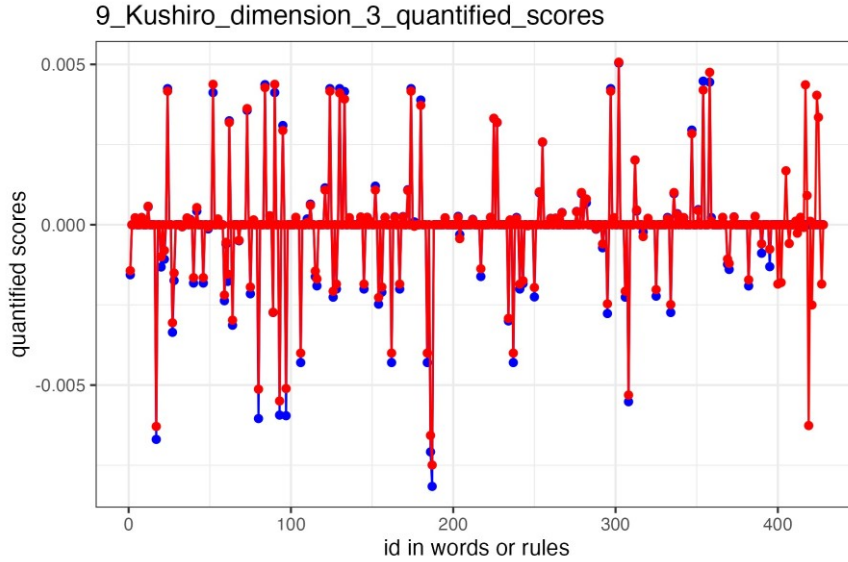


Figure I: The assigned number to lexical forms and types of the third dimension in Kushiro dialect. Blue line: the quantified scores in Data 1. Red line: the quantified scores in Data 2. Note that the quantified score of 398 lexical forms in the 110 lexical items of Asai (1974) corresponds to the value of 1-398 IDs and the quantified score of 25 types in the 13 regularities corresponds to the value of 399-423 IDs in horizontal axis.

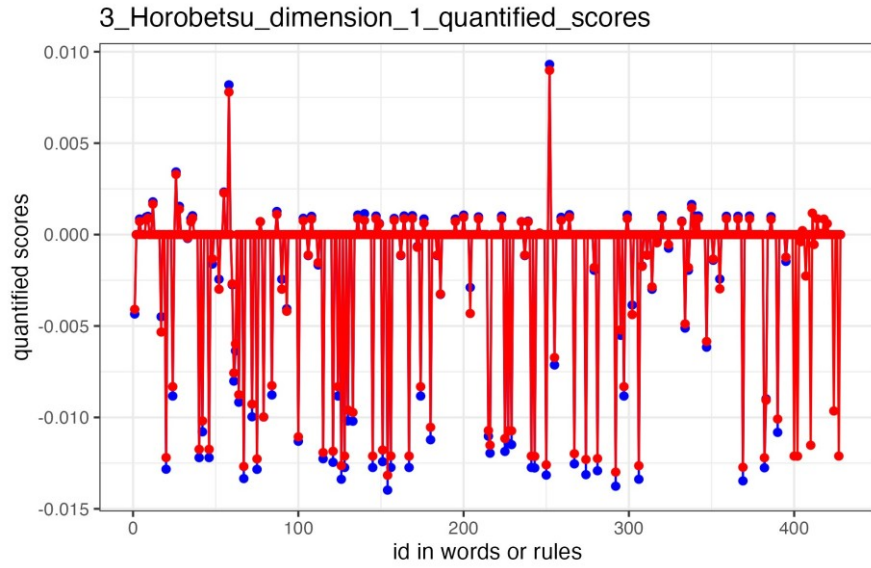


Figure J: The assigned number to lexical forms and types of the first dimension in Horobetsu dialect. Blue line: the quantified scores in Data 1. Red line: the quantified scores in Data 2. Note that the quantified score of 398 lexical forms in the 110 lexical items of Asai (1974) corresponds to the value of 1-398 IDs and the quantified score of 25 types in the 13 regularities corresponds to the value of 399-423 IDs in horizontal axis. IDs 410 and 411 correspond to V_1V_2 -type and V_2 type from 19.fish, respectively.

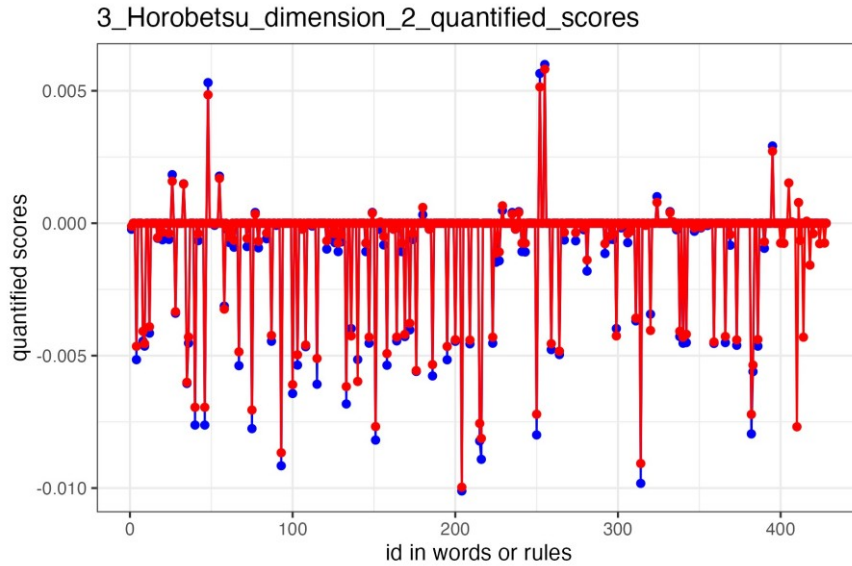


Figure K: The assigned number to lexical forms and types of the second dimension in Horobetsu dialect. Blue line: the quantified scores in Data 1. Red line: the quantified scores in Data 2. Note that the quantified score of 398 lexical forms in the 110 lexical items of Asai (1974) corresponds to the value of 1-398 IDs and the quantified score of 25 types in the 13 regularities corresponds to the value of 399-423 IDs in horizontal axis. IDs 410 and 411 correspond to V_1V_2 -type and V_2 type from 19.fish, respectively.

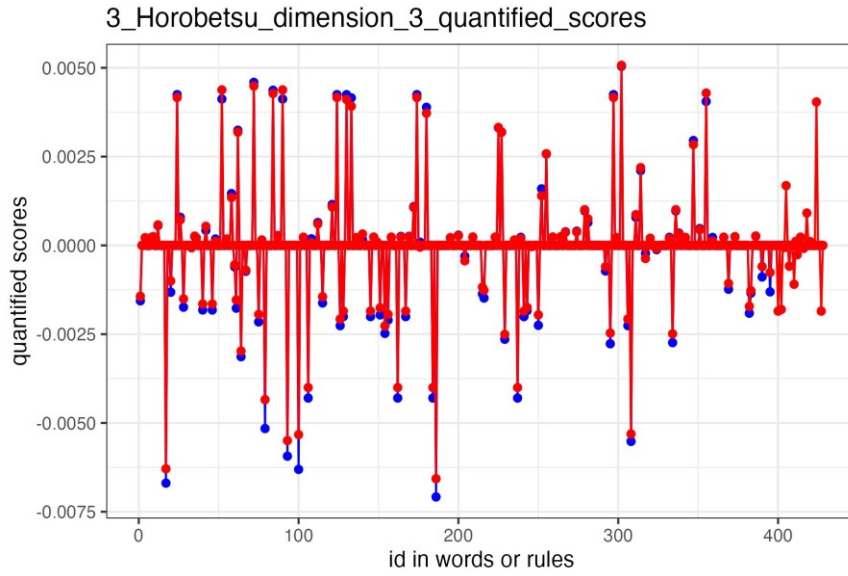


Figure L: The assigned number to lexical forms and types of the third dimension in Horobetsu dialect. Blue line: the quantified scores in Data 1. Red line: the quantified scores in Data 2. Note that the quantified score of 398 lexical forms in the 110 lexical items of Asai (1974) corresponds to the value of 1-398 IDs and the quantified score of 25 types in the 13 regularities corresponds to the value of 399-423 IDs in horizontal axis. IDs 410 and 411 correspond to V_1V_2 -type and V_2 type from 19.fish, respectively.