

ALPHABETS OF THE JAPANESE LANGUAGE.

EFFECTS OF
MULTIMEDIA AND
TRADITIONAL
STUDYING
METHODS ON HIRAGANA
MEMORIZATION IN
BEGINNER JAPANESE
LANGUAGE LEARNING

BABETTE NORTON

BIOLOGY AND JAPANESE STUDIES

OCARINA ZHENG
MEDICAL SCIENCES AND JAPANESE



WHILE TYPICALLY TAUGHT ON PEN AND PAPER OR BY TEXTBOOK METHODS, RECENT STUDIES HAVE TESTED THE SUCCESS OF MEDIA-BASED STUDYING METHODS.





DUE TO ITS ABILITY TO COVER ALL OF THE WORDS IN THE LANGUAGE,
HIRAGANA IS TYPICALLY TAUGHT FIRST
IN A STRUCTURED ENVIRONMENT.



OUR HYPOTHESIS STATES THAT PARTICIPANTS IN THE MEDIA CATEGORY WILL OUTPREFORM THOSE USING THE TRADITIONAL PEN AND PAPER METHOD.

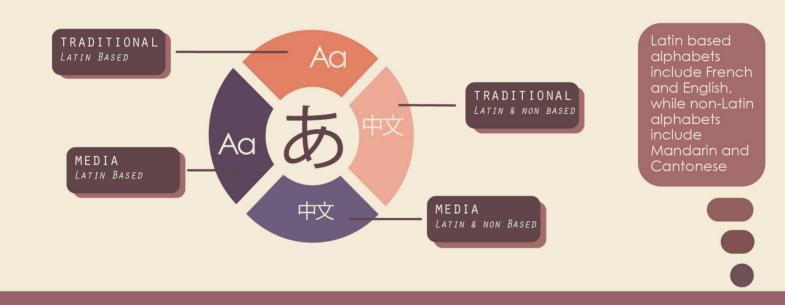


THE NULL HYPOTHESIS STATES THAT THERE IS NO SIGNIFIGANT DIFFERENCE BETWEEN THE TWO STUDY METHOD GROUPS.

GERAGHTY, M. (2009). AN EVALUATION OF INDEPENDEN

LEARNING OF THE JAPANESE HIRAGANA SYSTEM USING AN INTERACTIVE CD. RECALL (CAMBRIDGE, ENGLAND), 21(2), 227-240. https://doi.org/10.1017/S0958344009000226

Shih, L. (2008). Enhancing the effectiveness of Kanji learning for the L1 Chinese -background students through Sino -Japanese phonological correspondence-based strategy. ProQuest Dissertations Publishing.



TO TEST THE TWO LEARNING METHODS, 24 PARTICIPANTS WERE DIVIDED INTO 2 METHOD GROUPS: MEDIA LEARNING VIA APP, OR TRADITIONAL PEN AND PAPER. THOSE GROUPS WERE THEN DIVIDED A SECOND TIME INTO BOTH LATIN AND NON-LATIN BASED AND ONLY LATIN BASED LANGUAGE KNOWLEDGE, SO AS NOT TO BIAS OUR DATA.



PARTICIPANTS WERE THEN GIVEN ONE HOUR TO STUDY
HIRAGANA WITH THEIR METHOD. FOLLOWING THIS, THEY
WERE INSTRUCTED TO TAKE A 20 MINUTE TEST COMPOSED OF CHART AND WORD COMPOSITION RECALL.





FOLLOWING THE FIRST TESTING PERIOD,

PARTICIPANTS THEN TOOK A SECOND TEST 48

HOURS AFTER THEIR INITIAL STUDYING

PERIOD.



THE DATA WAS ANALYZED UTILIZING A TWO-WAY ANOVA TEST VIA R FOR STATISTICAL ANALYSIS, ALONGSIDE CONFIRMATION TESTING.

WITH OUR DATA, THE NULL HYPOTHESIS IS ACCEPTED: THERE WAS NO SIGNIFIGANT DIFFERENCE BETWEEN THE LANGUAGE LEARNING METHODS' SCORES.

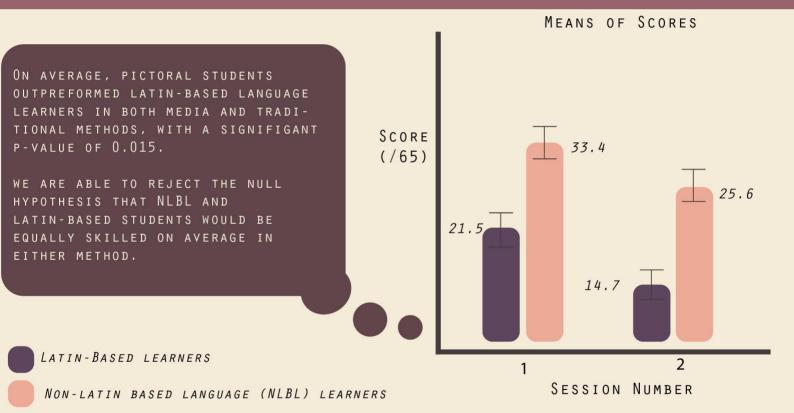






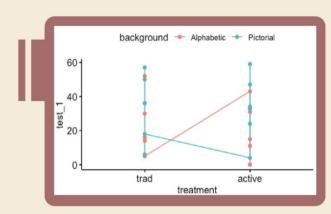
One possible reason for this data contradicting past research such as that done in 2019² could be the age difference in participants, as Western students were young adults.

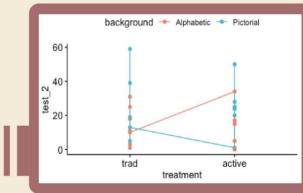
2. Meilia Rasiban, Linna & Sudana, Dadang & Sutedi, Dedi. (2019). Using Mnemonic-Based Application



WHILE THE DATA WAS NOT CONSIDERED STATISTICALLY SIGNIFIGANT, IT IS WORTH NOTING THE TRENDS WITHIN THE TWO GROUPS.

NLBLS* ON AVERAGE OUTPREFORMED LBLS IN THE TRADITIONAL METHOD IN BOTH TESTING SESSIONS. LBLS ON AVERAGE OUTPREFORMED NLBLS IN ACTIVE MEDIA TREATMENT, WITH A SLIGHT TREND IN OVERALL RETENTION, AS THEY TENDED TO HAVE HIGHER HIRAGANA RETENTION ABILITY THAN NLBL LEARNERS, DESPITE THE SCORE DIFFERENCE.





^{*}ON IMAGES RIGHT: NLBL IS EQUAL TO PICTORAL LEARNERS



THE MOST DIFFICULT HIRAGANA TO MEMORIZE WERE ふ,や, and れ



WITH A SUCCESS RATE OF 8%*



It's good to note for beginners that Hiragana like this may present the most difficulty, and to pay extra mind!

*as of study 2

THE CURRENT TEACHING STYLE IS EFFECTIVE AMONG
STUDENTS AND PRODUCES FAST ENOUGH RESULTS TO
KEEP CURRICULUM PACING. FUTURE STEPS MAY
INCLUDE LARGER TESTING SIZES TO FURTHER EXPLORE
POSSIBILITY OF LBL AND NLBL DIFFERENCES BETWEEN
STUDYING METHODS. AS WE NAVIGATE TO A DIGITAL
LEARNING ENVIRONMENT, TRENDS SUCH AS THIS
BECOME IMPORTANT FOR STUDENT SUCCESS.

