

Idioms in the Mental Lexicon:

P.S. Conner, J. Hyun, I. Anema, B. O'Connor, D. Rubino, M. Goral, L.K. Obler Evidence from idiom production of younger and older adults

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Introduction

debate remains concerning their status in the mental lexicon. Are they stored While idioms may constitute a relatively high percentage of daily speech,

- as whole-phrases in the lexicon (non-compositionality)
- as individual lexical items that are then strung together to form the expression (compositionality),
- or aspects of both, as in Levelt and Meyer's (2000) superlemma model both holistic and compositional? whereby single words are linked to an idiomatic representation that is

- Because there is substantial literature on decline in naming abilities lexical items and idioms (i.e., non-compositionality) decrease in correct production of idioms would suggest parallels between associated with advancing age (e.g., Au et al., 1995), an age-related
- If idioms are retrieved holistically, we predict few partially correct compositionality. responses associated with advancing age, by contrast, would suggest responses to the elicitation task. Sizable numbers of partially correct
- بن ا Lexical retrieval difficulties in older adults and response to cueing would items. The increased need for cues and success with them support the suggest comparability in representation between idioms and single lexical unitary nature of idioms and their inherent links to content words

rate a set of 75 idioms: 65 were American idioms and 10 were literally-35) and older (aged 60-85) monolingual American English speaking raters by young and old raters were included in the experimental stimuli. those 40 items rated equally familiar (3 and above on a 7-point Likert scale) translated foreign idioms that we expected raters to judge unfamiliar. Only familiarity among our different age-cohorts, we first had younger (aged 18-To assure that the idioms we selected would not differ in their

confirmed could appropriately elicit the idiom in question (see example). In order to get participants in the mode of producing idioms instead of progressively fewer cues. through an extended set of instructions consisting of 12 practice items, with appropriate literal completions to the scenario-sentences, they were led For each stimulus idiom, a scenario was generated that pilot data

Stimulus: "We tried to keep the party a surprise from my parents, but my sister had to open her big mouth and .."

Target Response: "let the cat out of the bag."

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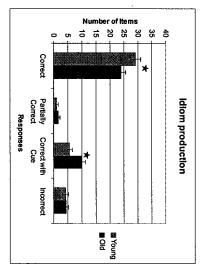
Participants and Methods

study. The two groups were matched for gender and education. Eighty monolingual adults in two age groups participated in this

- 40 younger adults (ages 18-30; x=25.3yrs, education: x=15.8 yrs
- classified into the following categories with 94.15% interrater The participants were tested individually. Their responses were 40 older adults (ages 60-85; \vec{x} =72.3 yrs), education; \vec{x} =15.9 yrs
- correct (let the cat out of the bag or equivalent spill the beans)

reliability:

- partially correct (let it out of the bag)
- ' correct with cue (correct response after the word prompt, "let")
- incorrect (blurt it out or no response)



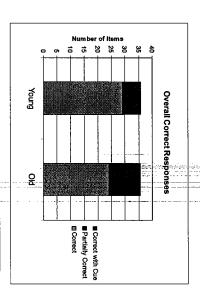
Results

A repeated measures ANOVA revealed a main effect of Age (F=551.64, p < .001) and an Age by Response Type interaction (F=15.92, p < .001).

- Planned comparisons indicated that consistent with our predictions: Older adults produced fewer correct items (before cues) than younger
- Both groups produced fewer partial responses than incorrect responses adults (Young: $\bar{x}=29.18$, Old: $\bar{x}=24.05$; t=4.2, p<.001)

(Young: $\bar{x}=1.10$, Old: $\bar{x}=1.75$; t=-1.67, p=.1).

In addition, older adults had more correct-with-cue responses than younger adults (Young: $\bar{x}=5.63$ Old: $\bar{x}=9.88$; t=-5.12, p<.001). combined (Young: \bar{x} = 35.94 Old: \bar{x} = 35.68). responses for correct, partially correct and correct with cue were Idiom production for the two groups did not differ when total average



Response to Cueing:

Older participants made better use of cues than younger participants, although both groups seemed to be equally familiar with the idioms.

When older participants did not get a correct answer on their own, that meant they more likely had it on the tip of their tongue while younger adults simply did not know it.

Conclusion

stored and accessed at some level as whole units. Our results are consistent with the hypothesis that idioms are

- 1. Age-related decline was apparent for idiom production. than older adults. Younger adults produced more idioms correctly on average
- Partial responses to this idiom production task were few in both younger and older adults, further supporting a holistic representation of idioms.
- 3. Similar to findings of single-word responses to cues than younger adults. idioms. Older adults provided a greater percentage of correct older group benefited from initial content-word cues to the adults benefit from phonemic cues (MacKay et al., 2002), our retrieval where older

production, suggesting a level at which idioms are represented and accessed holistically Our data thus support the Levelt and Meyer (2000) model of

ACKNOWLEDGEMENTS

To Raija Kuckuk, Marie-Michelle Monéreau-Merry, Brian Kohn, and Mariah Johnson for their invaluable help with this study.

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