

Lexical Generalization Improves with Model Size And Longer Training

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Larger language models trained for I onger are better, But the dev set performance does not reflect it!

1. Approach

2. Measuring Heuristic Use



Conclusion I: Pretrain Larger Models

While models of different sizes perform equally on the subset consistent with the heuristic (\checkmark) , in the inconsistent subset (\bigstar) larger models generalize better and are less likely to adopt the heuristic.



Remaining questions:

What other heuristics models employ for prediction?

How the size of the model and fine-tuning duration affect the abandonment of lexical heuristics?

When training models longer, they tend to abandon the use of lexical overlap heuristics.

