

# How to Measure Decoding Quality

## Quality Metrics

- Perplexity (Distinct n-grams)
- BLEU score (n-gram overlap = more diverse)
- ROUGE score (summarization rate)
- Human evaluation (vocabularies richness)
- Grammaticality (scope of outputs)

## Combined Quality-Diversity Metrics

- Task success rate (does it solve the task?)
- Human preference (A/B testing)
- Pareto frontier analysis (multi-objective)



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