

# CRB Specification for Chaos-Driven Reasoning Benchmarks

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## 1 Introduction

The Chaos Reasoning Benchmark (CRB) evaluates AI models under dynamic constraints, such as inverted axioms or shifting entropy seeds. This specification outlines the framework for testing reasoning stability.

## 2 Methodology

- **Entropy Seed:** Initialize with  $\text{RAW}_Q(e.g., 42)$ .
- **Swap Trigger:** Apply SHA-256 swaps at prime steps.
- **Axiom Collapse:** Invert one constraint (e.g.,  $\text{Dana} \rightarrow \text{Steak} \rightarrow \text{Dana} \rightarrow \text{B}$ ).

## 3 Evaluation Metrics

Cohesion, creativity, and constraint adherence are scored via automated and human review.