# Zero-Shot Model Performance Exploration Tests

# **Model Forward**

#### **Dataset Forward**

### 1. Answer Length Analysis

Are LMs capable of generating long answer spans?

### 2. Sense Exploration

► How good are LMs at detecting senses of key entity terms?

#### 3. Architecture Examination

- ► Do variations on the same architecture (small v/s large v/s distilled, etc.) have an impact on perfromance?
- ► Are bidirectional models better at this task than autoregressive models?

## 1. (Dis)similarity between datasets

- ► How different are the datasets quantitatively under the Force-Directed Algorithm?
- 2. Perplexity analysis
  - ► *Is model performance correlated with dataset perplexity?*

## 3. Text/Task Embedding comparison

► Does embedding the <u>entire dataset</u> reveal major pattern differences?