Recent(ish) Breakthroughs
LLMs as Foundation Models

• **Homogenization**: (almost) all SOTA NLP LLM models are now adapted from one of a few foundation models (like BERT, BART, T5, etc.). [1]

  ![Diagram showing Data, Foundation Model, and Tasks](image)

  - Data from various modalities
  - Adoption to a wide range of downstream tasks

• **Social Impact**
  - Exacerbation of social inequalities.
  - Democratization: increased computation demands – power/capability concentrated to few corporations/start-ups.
  - Gap between industry models and community models are large.
  - Increasing proprietary moat and closed source nature.
  - Solution: *government intervention*

LLMs + RLHF

- TBA. [1]

- TBA
  - TBA

- TBA
  - TBA

[1] **TBA**. [link]