

# Neural Language Modeling

- End-to-end modeling with no explicit syntactic representation
  - Neural networks pretrained on very large text corpora where goal is to predict words given then context (i.e., surrounding words).
  - Transfer / few shot learning to fine tune on downstream tasks





# Successes

- Information retrieval and web search
- Semantic search with images
- Machine translation
- Recommender systems
- Various classification tasks (e.g., spam filtering)
- Speech recognition (aka ASR aka STT)
- Speech synthesis (aka TTS)
- Conversational assistants

