

# Bridging AI and Neuroscience Group



## Finally, a Machine That Can Finish Your Sentence

The New York Times, Nov 2018



## Meet GPT-3. It Has Learned to Code (and Blog and Argue)

The New York Times, Nov 2020



## AI Goes Multilingual with Hugging Face's BLOOM

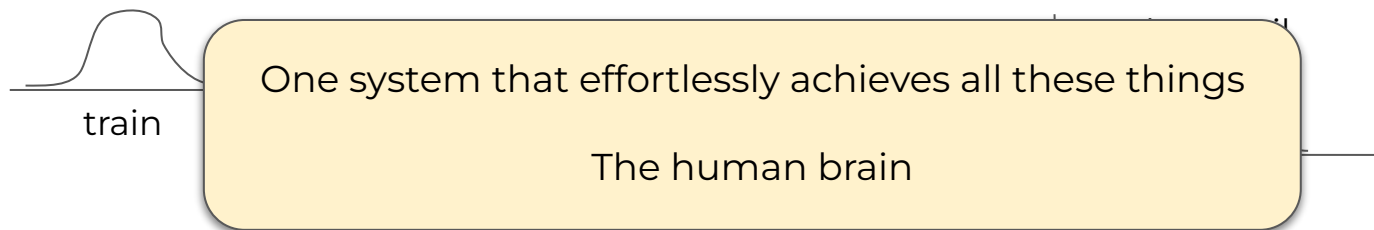
VentureBeat, July 2022



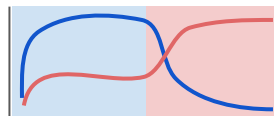
# A long way to go to general artificial intelligence

Generalizing to new domains

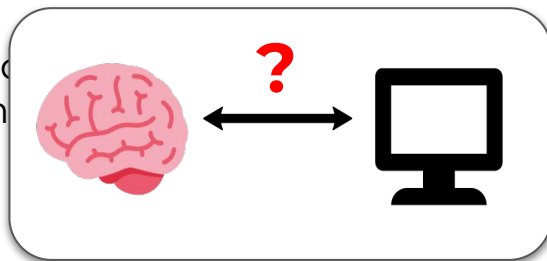
Learning from few samples



Retaining previously learned skills when learning new ones

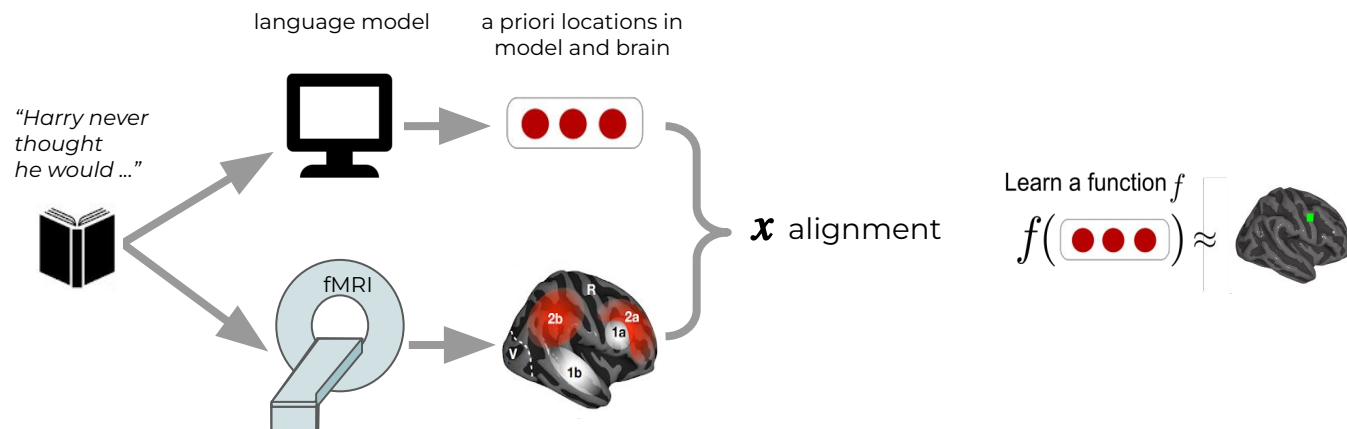


task A  
task B



Commonsense reasoning

*trophy doesn't fit into the suitcase  
use **it**'s too big*



### Scientific

Necessary & sufficient conditions for alignment

### Theoretical

Guarantees & limitations for function  $f$

### Empirical

New training objectives for improved alignment