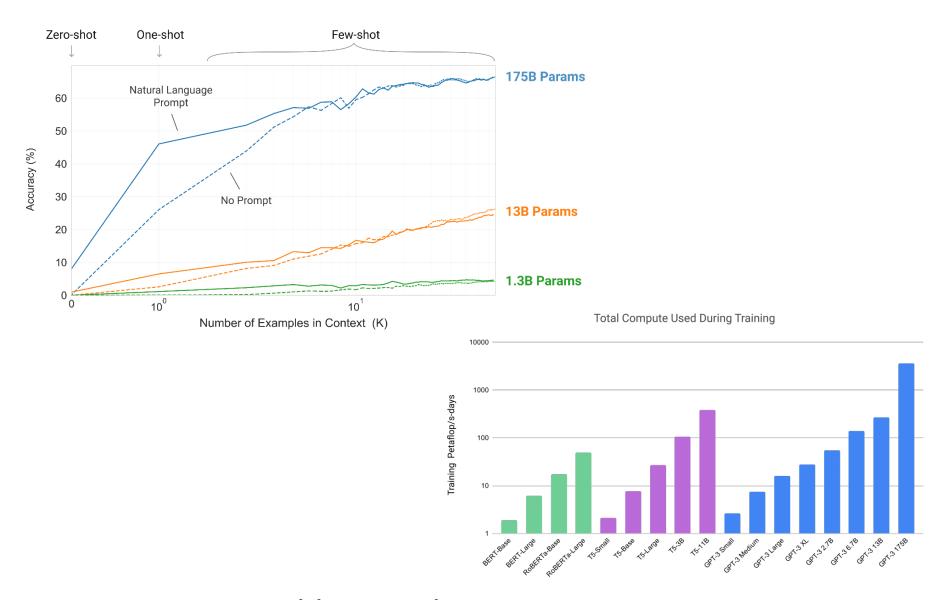
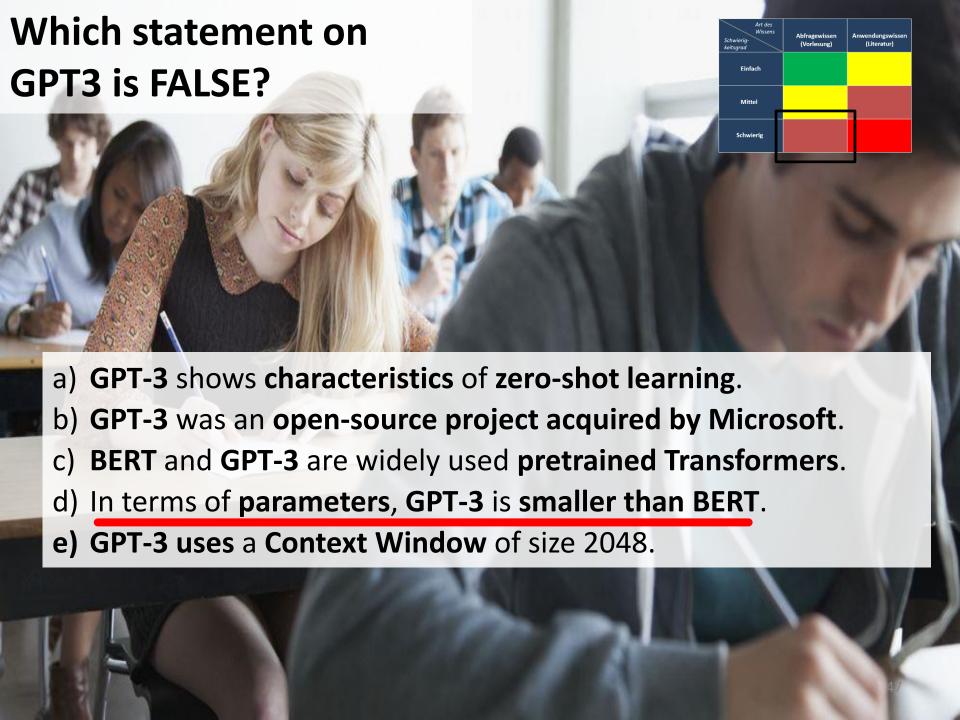
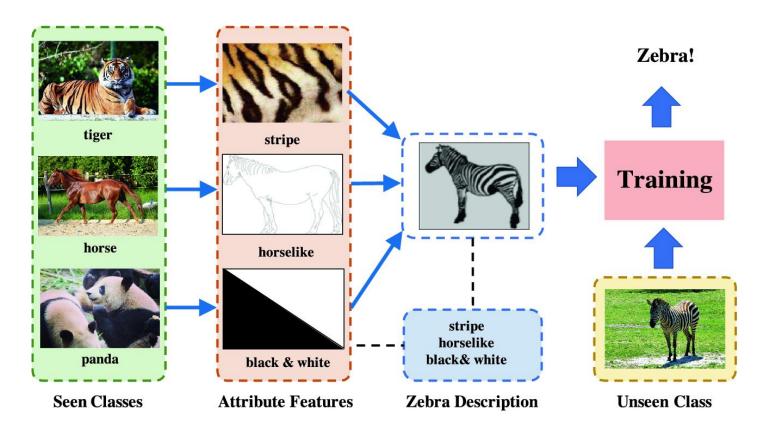
Zero-Shot, One-Shot, Few-Shot Learning





Zero-Shot Learning (Kernidee)

In Machine Learning, Zero-Shot Learning is a problem setup where, at test stage, a learner recognizes object from classes not previously seen at training stage. This problem is widely studied in computer vision, natural language processing and machine perception.



en.wikipedia.org/wiki/Zero-shot_learning deepai.org/publication/zero-shot-learning-by-generating-pseudo-feature-representations 81

Zero-Shot, One-Shot, Few-Shot Learning (Kernidee)

Few-shot

In addition to the task description, the model sees a few examples of the task. No gradient updates are performed.

```
Translate English to French: task description

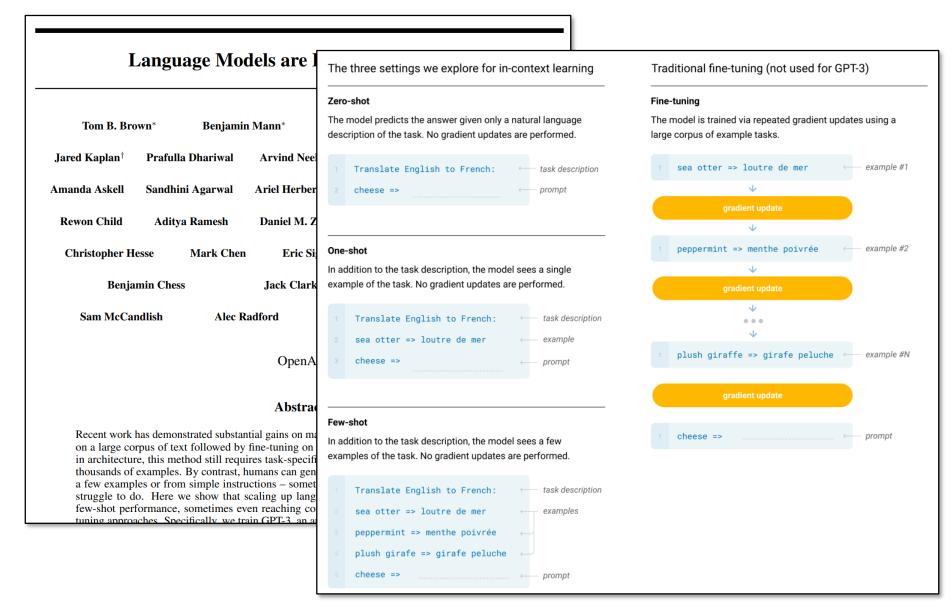
sea otter => loutre de mer examples

peppermint => menthe poivrée

plush girafe => girafe peluche

cheese => prompt
```

GPT-3 Transformer, OpenAI 2020



OpenAl 2020: Language Models are Few-Shot Learners arxiv.org/pdf/2005.14165.pdf

Zero-Shot, One-Shot, Few-Shot Learning

