

AlexNet ~2012 62.3M params

GPT-4o ~2024 1.8T params

Claude Haiku 2T estimated

LLM facts:
BERT-L ~ 2018 340M params
GPT-2 ~ 2019 1.5B params
Gemini small - 1B?
Llama3.1 8B params
Llama3.1 70B params
GPT-3 ~ 2020 175B params
Llama3.1 408B params
PaLM ~ 2022 540B params
GPT-4 ~2023 1.8T params

Model weights 4 bytes per param
Adam optimizer 8 bytes per param
Gradients 4 bytes per param
Activation & temp 8 bytes per param
==> 4 bytes per params + 20 extra bytes per param
~ 20X more RAM than space needed for the params

Haiku (~**20B**), Sonnet (~70B), and Opus (~2T).