## Large Language Models

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Year	Model	# parameters	dataset size
2018	ELMo	9.36 * 10 <sup>7</sup>	pprox 6GB *
2019	BERT	3.4 * 10 <sup>8</sup>	16 GB
2019	Megatron-LM	$8.3 * 10^{9}$	174 GB
2020	GPT-3	$1.75 * 10^{11}$	570 GB
2020	GShard	$6.00 * 10^{11}$	t
2021	Switch-C	$1.57 * 10^{12}$	745 GB
2021	Gopher	$2.8 * 10^{11}$	pprox 1800 GB ‡
2022	PaLM	$5.4 * 10^{11}$	pprox 4680 GB \$

- \* 1 billion words
- † 25 billion training examples (100 languages)
- ‡ 300 billion tokens
- \$ 780 billion tokens

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2/2

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- (a) 2 years
- (b) 20 years
- (c) 200 years
- (d) 2000 years

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Answer: 2000 years

Someone who reads a 400 page book each week takes about 30 years to read 180 million words, which is approximately one GB of text.

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