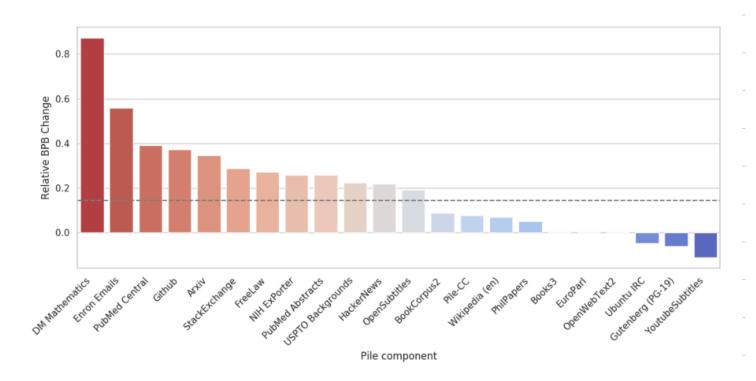
training data: raw text
Span a broad range of domains, garras, languages
Web: Google Search Index 100 PB
Wal Mart 2.5 PB/hour
Rapresentation:
Representation. Despite the richness of web data, it has been noted in Bender et al, 2021 that:
Despite the size, large-scale data still has uneven representation over the population.
Internet data overrepresents younger users from developed countries. ORT 3/2 training data is based on Raddit, which according to Revulatornat Research/2 2016 company.
 GPT-2's training data is based on Reddit, which according to Pew Internet Research's 2016 survey, 67% of Reddit users in the US are men, 64% between ages 18 and 29.
 8.8-15% of Wikipedians are female.
Harassment on Internet could turn away certain people (trans, queer, neurodivergent people).
• Filtering "bad words" could further marginalize certain populations (e.g., LGBT+).
Takeaway: it is crucial to understand and document the composition of the datasets used to train large language models.
NebText - 40 GB text - GPT-2
OpenWebText — 38 GB
Colossal Clean Crowled Corpus - 806 GB tex
(15t billion toka
— T5

Component	Raw Size	Weight	Epochs	Effective Size	Mean Document Size
Pile-CC	227.12 GiB	18.11%	1.0	227.12 GiB	4.33 KiB
PubMed Central	90.27 GiB	14.40%	2.0	180.55 GiB	30.55 KiB
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USPTO Backgrounds	22.90 GiB	3.65%	2.0	45.81 GiB	4.08 KiB
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Gutenberg (PG-19) [†]	10.88 GiB	2.17%	2.5	27.19 GiB	398.73 KiB
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YoutubeSubtitles	3.73 GiB	0.60%	2.0	7.47 GiB	22.55 KiB
PhilPapers	2.38 GiB	0.38%	2.0	4.76 GiB	73.37 KiB
NIH ExPorter	1.89 GiB	0.30%	2.0	3.79 GiB	2.11 KiB
Enron Emails†	0.88 GiB	0.14%	2.0	1.76 GiB	1.78 KiB
The Pile	825.18 GiB			1254.20 GiB	5.91 KiB



Takeaway: The Pile contains a lot of information that's not well covered by GPT-3's dataset.