# Finetuning data: compare to pretraining and basic preparation ¶

```
In [ ]: import jsonlines
    import itertools
    import pandas as pd
    from pprint import pprint

import datasets
    from datasets import load_dataset
```

#### Look at pretraining data set

**Sorry**, "The Pile" dataset is currently relocating to a new home and so we can't show you the same example that is in the video. Here is another dataset, the "Common Crawl" (https://huggingface.co/datasets/c4) dataset.

### Contrast with company finetuning dataset you will be using

```
In [ ]: filename = "lamini_docs.jsonl"
    instruction_dataset_df = pd.read_json(filename, lines=True)
    instruction_dataset_df
```

#### Various ways of formatting your data

```
In [ ]: examples = instruction_dataset_df.to_dict()
   text = examples["question"][0] + examples["answer"][0]
   text
```

```
In [ ]: |if "question" in examples and "answer" in examples:
         text = examples["question"][0] + examples["answer"][0]
        elif "instruction" in examples and "response" in examples:
          text = examples["instruction"][0] + examples["response"][0]
        elif "input" in examples and "output" in examples:
          text = examples["input"][0] + examples["output"][0]
          text = examples["text"][0]
In [ ]:
        prompt_template_qa = """### Question:
        {question}
        ### Answer:
        {answer}"""
        question = examples["question"][0]
In [ ]:
        answer = examples["answer"][0]
        text_with_prompt_template = prompt_template_qa.format(question=question, answer=answe
        text_with_prompt_template
In [ ]: | prompt_template_q = """### Question:
        {question}
        ### Answer:"""
In [ ]:
        num_examples = len(examples["question"])
        finetuning_dataset_text_only = []
        finetuning dataset question answer = []
        for i in range(num_examples):
          question = examples["question"][i]
          answer = examples["answer"][i]
          text_with_prompt_template_qa = prompt_template_qa.format(question=question, answer=
          finetuning_dataset_text_only.append({"text": text_with_prompt_template_qa})
          text_with_prompt_template_q = prompt_template_q.format(question=question)
          finetuning_dataset_question_answer.append({"question": text_with_prompt_template_q,
In [ ]: | pprint(finetuning_dataset_text_only[0])
In [ ]: | pprint(finetuning_dataset_question_answer[0])
```

## **Common ways of storing your data**