

TP3 Data sources

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GDPR

The General Data Protection Regulation (GDPR) is a European Union regulation on data protection and privacy in the EU and the European Economic Area (EEA). It has for objective to regulate the use of the data.

It was created the 14 April 2016 and implemented the 25 May 2018, before the GDPR, replacing the 1995 data protection directive, which at the time allowed country to customize the law to the need of its citizen, this was a huge problem as it would allow loopholes concerning the use of data.

The GDPR however, is not a directive but a regulation, it requires full adoption. And the GDPR was much more modern with subjects like data storage, data collection, etc...

Timer log

```
Function count_words_dict() {} Took 0.1975 seconds  
127.0.0.1 - - [07/Jan/2023 22:16:31] "GET /count HTTP/1.1" 200 -
```

```
Function count_word_counter() {} Took 0.1563 seconds  
127.0.0.1 - - [07/Jan/2023 22:35:29] "GET /count HTTP/1.1" 200 -
```

We can see that the function with the counter is more efficient as it run about 25% faster

Why ?

To put it simply, counter is a subclass of dict which is optimize for counting hashable object, it stores keys and count as values and nothing else, thus it is optimized for this task as opposed to a random dictionary.