## **OTP Bank**

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# Corpus





# Corpus size vs sequence size

- 1.5B model's sequence size is 1024M
- 13B model's sequence size is 2048M
- WebCorpus 2.0 has 13B tokens
  -> if seq size = 1M -> 12,695,312 sequences
  -> if seq size = 2M -> 6,347,656 sequences

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## Sequence size vs epochs

### Batch size is set to: 1024

1 epoch = (# of sequences / batch size) steps

Seq. size: 1M -> 1 epoch = 12,695,312 / 1024 = **12 397** Seq. size: 2M -> 1 epoch = 6,347,656 / 1024 = **6 198** 

# How much tokens do we need?



Sambanova's experience is:

• 13B model (300k steps) can outperform 175B model (150k steps), but...

300k steps -> 1024\*300k\*2048=**629B tokens!!!** 150k steps -> **314B tokens!!!** 

# What about context window?



- The bigger the context window the more compute power needed
- GPT-4 with 32,768 context size can check ~50 A4 pages!

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# What are our next steps?



- Moving towards multilingual models
- Checking larger context windows
- Taking advantage of larger Hungarian Corpus

## Thanks for your attention!

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Q&A

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