



# NLP

**박진우, 유건희, 이영신**



# Team NLP에는요~~



유건희



박진우



이영신

# NLP

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CHATTING ROBOT  
**SimSimi**



**ISMAKER**   
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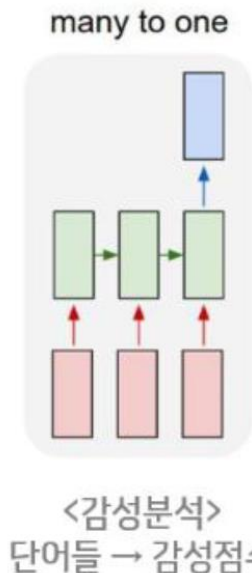


**papago**



# Project

## 목표 : NLP의 여러 모델과 기법들에 대한 이해와 이에 대한 활용



**Attention Is All You Need**

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**Abstract**

The dominant sequence transduction models are based on complex recurrent or convolutional neural networks that include an encoder and a decoder. The best performing models also connect the encoder and decoder through an attention mechanism. We propose a new simple network architecture, the Transformer, based solely on attention mechanisms, dispensing with recurrence and convolutions entirely. Experiments on two machine translation tasks show these models to be superior in quality while being more parallelizable and requiring significantly less time to train. Our model achieves 28.4 BLEU on the WMT 2014 English-to-German translation task, improving over the existing best results, including ensembles, by over 2 BLEU. On the WMT 2014 English-to-French translation task, our model establishes a new single model state-of-the-art BLEU score of 41.8 after training for 3.5 days on eight GPUs, a small fraction of the training costs of the best models from the literature. We show that the Transformer generalizes well to other tasks by applying it successfully to English constituency parsing both with large and limited training data.

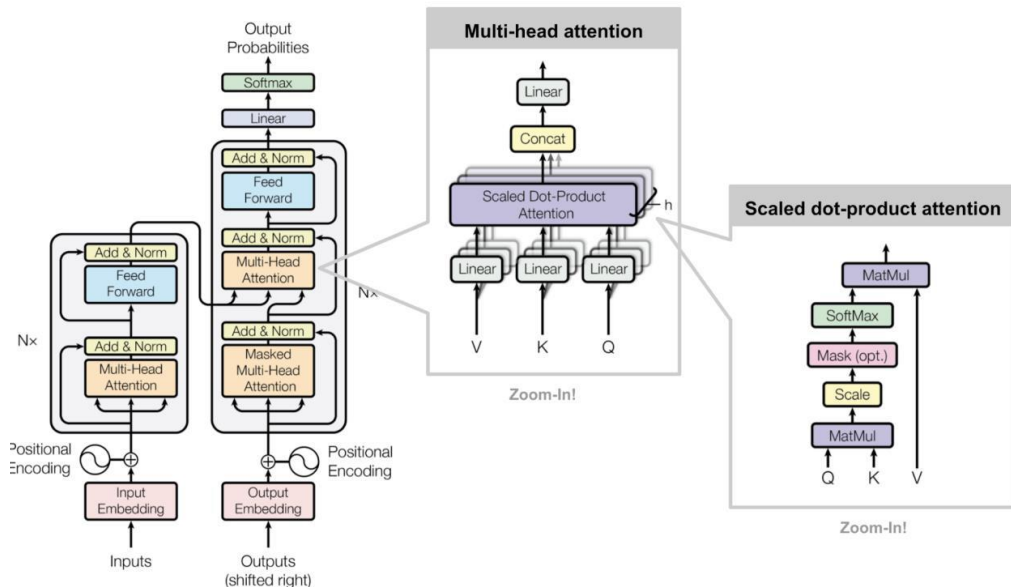
**1 Introduction**

Recurrent neural networks, long short-term memory [13] and gated recurrent [7] neural networks in particular, have been firmly established as state of the art approaches in sequence modeling and

<sup>1</sup>Equal contribution. Listing order is random. Jakob proposed replacing RNNs with self-attention and started the effort to evaluate this idea. Ashish, with Illia, designed and implemented the first Transformer models and has been crucially involved in every aspect of this work. Noam proposed scaled dot-product attention, multi-head attention and the parameter-free position representation and became the other person involved in nearly every detail. Niki designed, implemented, tuned and evaluated countless model variants in our original codebase and tensorflow2. Llion also experimented with novel model variants, was responsible for our initial codebase, and efficient inference and visualizations. Lukasz and Aidan spent countless long days designing various parts of and implementing tensorflow2, replacing our earlier codebase, greatly improving results and massively accelerating our research.

<sup>2</sup>Work performed while at Google Brain.

<sup>3</sup>Work performed while at Google Research.



# Project - 소설/시 쓰는 딥러닝

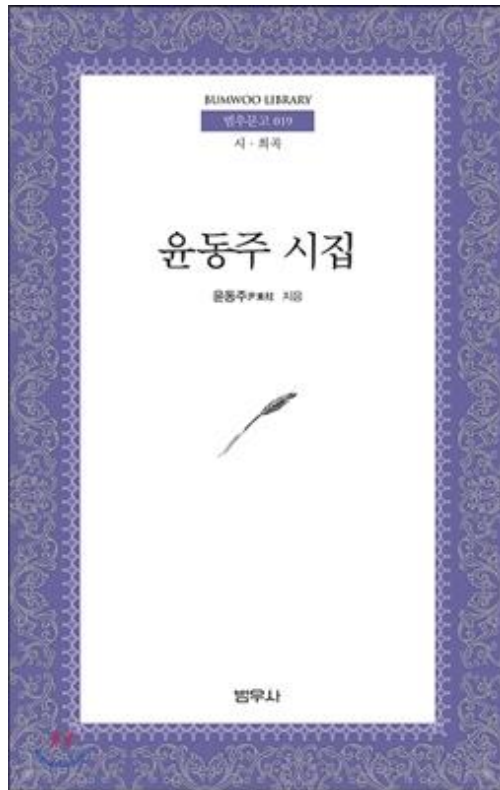
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# Project - 소설/시 쓰는 딥러닝



만들어보자!!



# Project

데이터 :

국립국악원 언어정보나눔터

도지

Q

발령지

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용어/문자찾기

통합자료실

회원교류

국어정보경진대회

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2014-01-09

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## Harry Potter and the Sorcerer's Stone

### CHAPTER ONE

#### THE BOY WHO LIVED

Mr. and Mrs. Dursley, of number four, Privet Drive, were proud to say that they were perfectly normal, thank you very much. They were the last people you'd expect to be involved in anything strange or mysterious, because they just didn't hold with such nonsense.

Mr. Dursley was the director of a firm called Grunnings, which made drills. He was a big, beefy man with hardly any neck, although he did have a very large mustache. Mrs. Dursley was thin and blonde and had nearly twice the usual amount of neck, which came in very useful as she spent so much of her time craning over garden fences, spying on the neighbors. The Dursleys had a small son called Dudley and in their opinion there was no finer boy anywhere.

분석도구 : PyThon

# Q&A

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