

Machine Translation

All for One

Choi Minjoo

Choi Minjoo (Judy Choi)

- Careers
 - 2018 **Working Holiday** in France
 - 2020 ~ **M.S** in Kangwon Univ
 - Intelligence Software Lab
 - **NLP (Machine Translation)**
 - 2021 ~ 2022 **Bering Lab** (NLP Researcher & Engineer)
- SNS
 - <https://www.facebook.com/minjoo.choi.562/>
 - <https://github.com/Judy-Choi>
 - <https://www.linkedin.com/in/judy-choi/>



Machine Translation

Machine Translation?

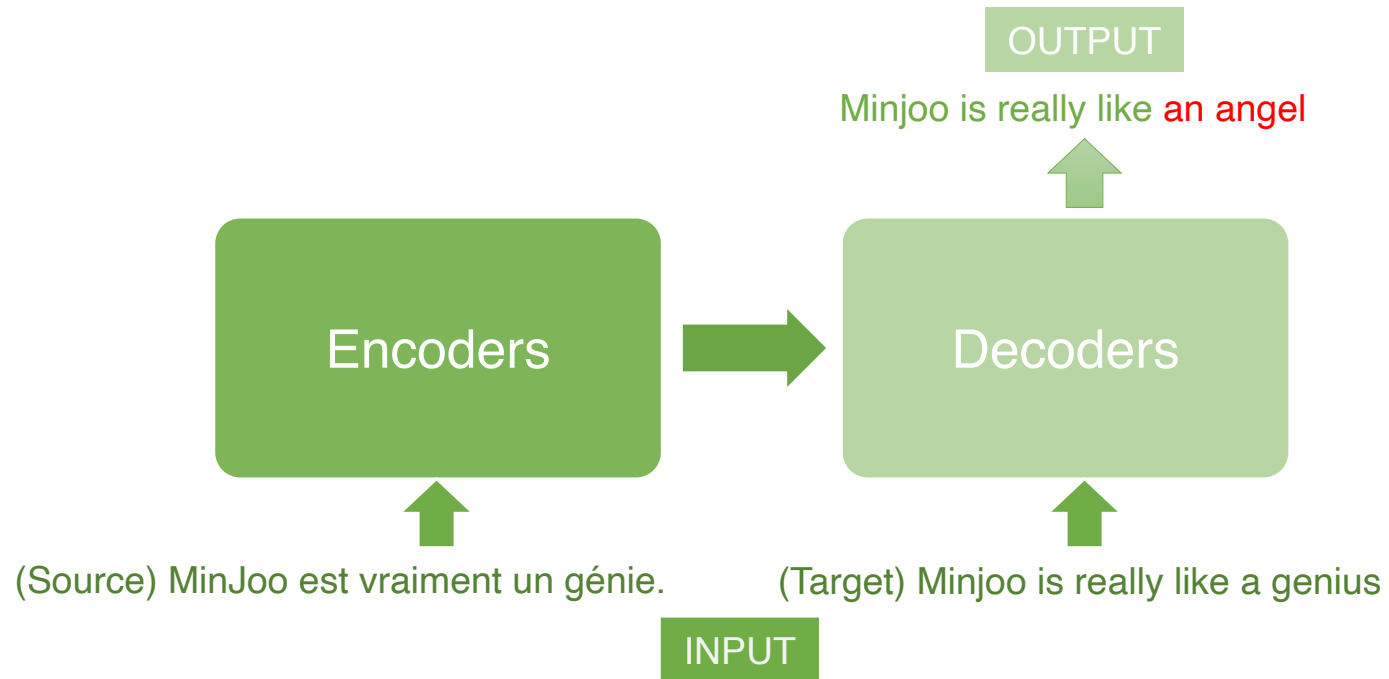
- Process when a computer software translates text from one language to another without human involvement



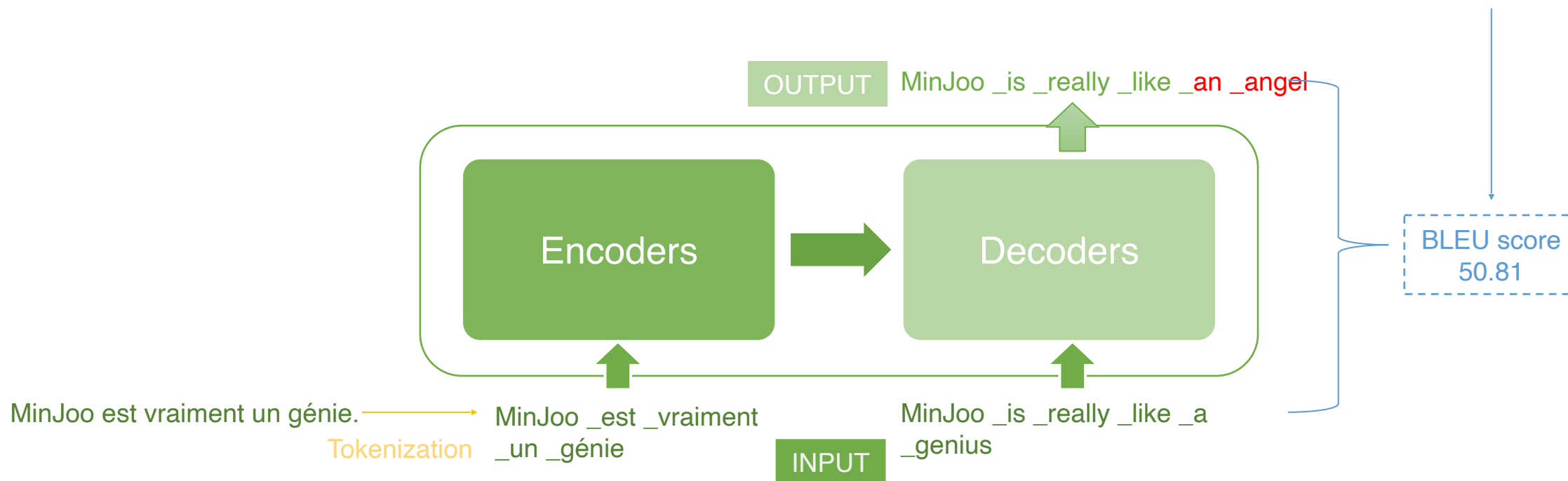
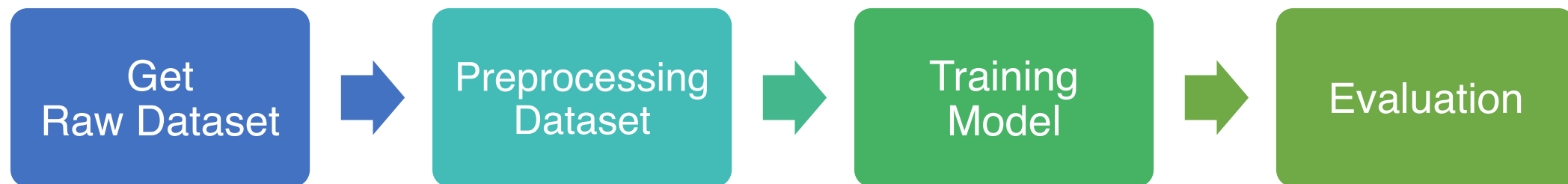
SYSTRAN



NMT : Neural Machine Translation

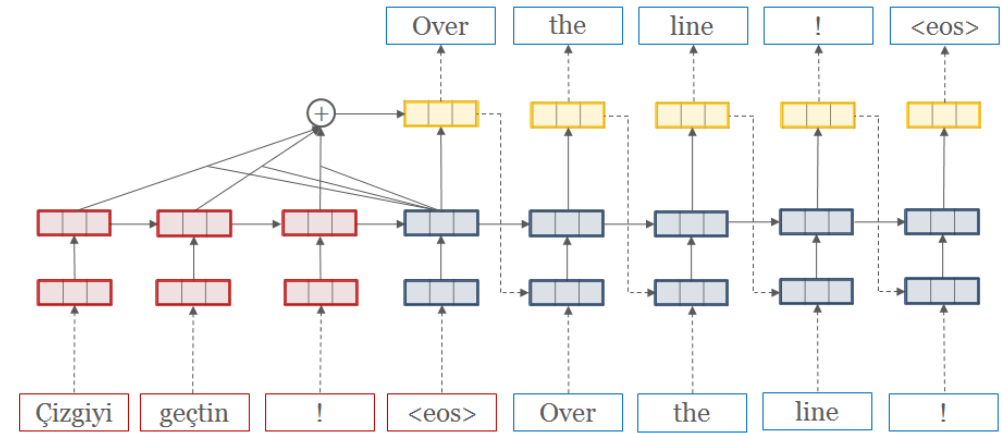


Process to Develop NMT



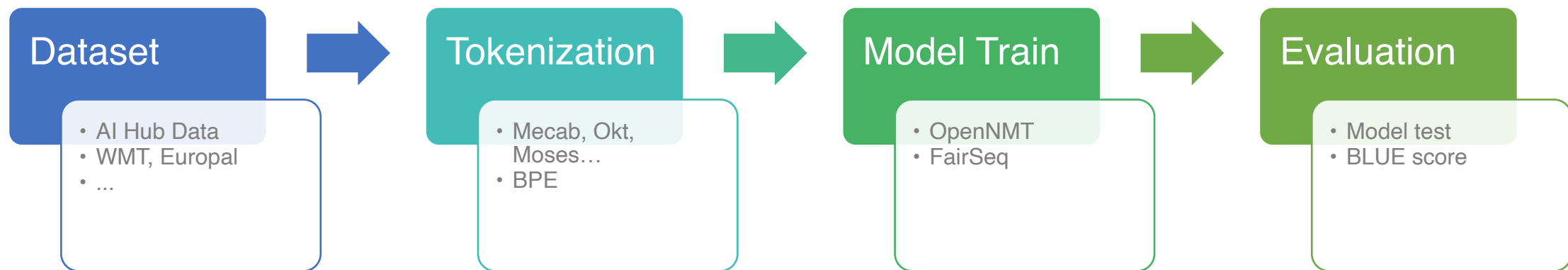
Open Source NMT Model

- OpenNMT
 - by Havard NLP group & Systran
 - tensorflow, pytorch



- FairSeq (**F**acebook **AI** Research **Seq**uence-to-Sequence Toolkit)
 - by Facebook AI Research
 - pytorch

Example



Original (KO)	Reference (EN)	OpenNMT Translation Result
우리는 일주일에 5 일을 학교에 갑니다.	We go to school 5 days a week.	We go to school for 5 days a week.
다음 주말에는 함께 술을 마시기로 해요.	Let's drink together next weekend.	I will drink together next weekend.
난 당신이 행복해지기를 너무나 원해요.	I so want you to be happy.	I really want you to be happy.

Q&A

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