



Question Answering System: JARDIS

Week 5
Lee hyunho



Mile Stone

	week1	week2	week3	week4	week5	week6	week7	week8
Word embedding								
Sequence embedding								
Question Answering								
Memory Network								
Goal setting								
Dataset								
Implementation								



Issues

- DBPEDIA
 - 지능형이지만 매우 까다로워 질 수 있음
- BaBi
 - 모든 작업을 해결할 수있는 모델을 만들 수 없음
- SQUAD
 - 다른 과제에 비해 상당히 이해하기 어려운 과제

DataSet

- DBPEDIA data
- 데이터가 방대하고 많음
- 데이터의 프리프로세싱이 필요

www.freebase.com/m/04wf9tq	www.freebase.com/book/written_work/subjects	www.freebase.com/m/019kbn	What is the subject of the book "Hearts West"?
www.freebase.com/m/01bt87	www.freebase.com/book/author/works_written	www.freebase.com/m/06_tw6s	what is a book by laura ingalls wilder
www.freebase.com/m/02hvp4r	www.freebase.com/book/written_work/subjects	www.freebase.com/m/089_x	what is the subject of writing home
www.freebase.com/m/0dwlqj	www.freebase.com/visual_art/artwork/support	www.freebase.com/m/0jmpt	what artwork medium is used for the second of m
www.freebase.com/m/02wwdt2	www.freebase.com/business/business_operation/industry	www.freebase.com/m/03q9x55	What type of business does duckhorn
www.freebase.com/m/0fq67t	www.freebase.com/cvg/computer_videogame/developer	www.freebase.com/m/059wk	who was the developer behind zero racers
www.freebase.com/m/01d3n8	www.freebase.com/book/book_subject/works	www.freebase.com/m/01j441	What's a book that talks about internal medicine
www.freebase.com/m/037n0p9	www.freebase.com/music/release/region	www.freebase.com/m/0345h	where was discovers the rings of saturn released
www.freebase.com/m/01jtg0y	www.freebase.com/music/album/genre	www.freebase.com/m/011j5x	What type of music fall heads roll
www.freebase.com/m/0hqgv11	www.freebase.com/medicine/manufactured_drug_form/color	www.freebase.com/m/038hg	what color is isosorbide dinitrate
www.freebase.com/m/03f6h5	www.freebase.com/film/film/cinematography	www.freebase.com/m/08z39v	Who was the cinematographer for the film endless
www.freebase.com/m/0jtdp	www.freebase.com/film/film_genre/films_in_this_genre	www.freebase.com/m/0h4z2jr	what is a documentary film about the
www.freebase.com/m/0gtpgng	www.freebase.com/people/person/place_of_birth	www.freebase.com/m/04v3q	where was mark mifsud born
www.freebase.com/m/04t1ftb	www.freebase.com/book/written_work/author	www.freebase.com/m/03nx4yz	who wrote mildred pierced?



DataSet

- bAbI data
- Facabook
- 모델이 심플
- 다양한 케이스를 다루기 어려움

Example from test set:

Story

Wolves are afraid of mice.

Sheep are afraid of mice.

Winona is a sheep.

Mice are afraid of cats.

Cats are afraid of wolves.

Jessica is a mouse.

Emily is a cat.

Gertrude is a wolf.

Question

What is emily afraid of?

Answer

wolf



DataSet

- SQUAD data
- 스탠포드 대학의 NLP 그룹
- 이해하기 어려움

id	qid1	qid2	question1	question2	is_duplicate
447	895	896	What are natural numbers?	What is a least natural number?	0
1518	3037	3038	Which pizzas are the most popularly ordered pizzas on Domino's menu?	How many calories does a Dominos pizza have?	0
3272	6542	6543	How do you start a bakery?	How can one start a bakery business?	1
3362	6722	6723	Should I learn python or Java first?	If I had to choose between learning Java and Python, what should I choose to learn first?	1