
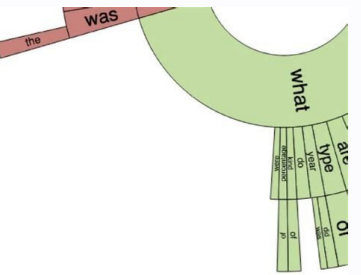


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Open

Coqa a conversational question answering challenge

Rank	Model	In-domain	Out-of-domain	Overall
	Human Performance <i>Stanford University</i> <i>(Reddy & Chen et al. TACL '19)</i>	89.4	87.4	88.8
1	RoBERTa + AT + KD (ensemble) <i>Zhuiyi Technology</i>	91.4	89.2	90.7
2	RoBERTa + AT + KD (single model) <i>Zhuiyi Technology</i>	90.9	89.2	90.4
3	Google SQuAD 2.0 + MMFT (ensemble) <i>MSRA + SDRG</i>	89.9	88.0	89.4
4	Google SQuAD 2.0 + MMFT (single model) <i>MSRA + SDRG</i>	88.5	86.0	87.8
4	ConvBERT (ensemble) <i>Joint Laboratory of HIT and iFLYTEK Research</i>	88.7	85.4	87.8
5	BERT + MMFT + ADA (ensemble) <i>Microsoft Research Asia</i>	87.5	85.3	86.8
5	ConvBERT (single model) <i>Joint Laboratory of HIT and iFLYTEK Research</i>	87.7	84.6	86.8



Team Names	Model Summary
Lost in Conversation	Generative Transformer based on OpenAI GPT. Trained on PennTreebank (original-revised), DailyDialog and Reddit comments.
Hugging Face	Pretrained generative Transformer (Billion Words + CoNLL 2012) with transfer to PennTreebank.
Little Baby	Profile-Encoded Multi-Turn Response Selection via Multi-Gained Deep Match Network.
Mold Shadab Alam	Modification of B ₀ letter model + data augmentation via translation, Seq2Seq + Highway model.
ADAPP Centre	Bi-directional Attention LSTM. Transfer learning strategy for Seq2Seq tasks. Pretrained via GloVe embeddings + Switchboard, Open Subtitles.

	In-domain				Out-of-domain				Overall
Model	F1	P	R	F1	F1	P	R	F1	F1
Human	89.4	89.4	89.4	87.4	88.8	88.8	88.8	88.8	88.8
RoBERTa + AT + KD (ensemble)	91.4	91.4	91.4	89.2	90.7	90.7	90.7	90.7	90.7
RoBERTa + AT + KD (single model)	90.9	90.9	90.9	89.2	90.4	90.4	90.4	90.4	90.4
Google SQuAD 2.0 + MMFT (ensemble)	89.9	89.9	89.9	88.0	89.4	89.4	89.4	89.4	89.4
Google SQuAD 2.0 + MMFT (single model)	88.5	88.5	88.5	86.0	87.8	87.8	87.8	87.8	87.8
ConvBERT (ensemble)	88.7	88.7	88.7	85.4	87.8	87.8	87.8	87.8	87.8
BERT + MMFT + ADA (ensemble)	87.5	87.5	87.5	85.3	86.8	86.8	86.8	86.8	86.8
ConvBERT (single model)	87.7	87.7	87.7	84.6	86.8	86.8	86.8	86.8	86.8

Table 6. Models and human performance (F1 score) on the development and the test sets.

where he could buy a bike like theirs, and how much would it cost. Sam of a store nearby, and David told him of a store on the web. John said go ride. John then went home and left Sam a note so that he could pick up stuff on bike racing. He was so excited his mother heard him from the other parts of bike riding including the wrong time to ride and the stuff he would

To ensure that question answering systems work well in a diverse set of domains, CoQA has a train set that includes 5 domains and a test set that includes 7 domains (2 never seen in training!) And while human performance has an F1 score of 88.8%, the best performing model only reaches an F1 of 65.1%. Humans learn by interacting with each other, asking questions, understanding the context, and reasoning about information. It requires using context tracks in a logo to discover what is being asked for. At least not now. We were given this cool graphic to show that: "What makes CoQA even harder is that sometimes it only presents one-word questions like 'Who?' or 'Where?' or even 'Why?' These are totally context-dependent! We as humans can't even begin to try to answer these questions without knowing the context in which they're asked. In case they haven't already, CoQA is very, very difficult. This is very difficult for the machines. When it was decided that that was not enough, we got the Version 2.0. This added more than 50,000 unanswered questions to SQuAD, which now requires algorithms not only to find correct answers, but also to reason if there is an answer in a passage. This task has not yet been solved, but it also does not solve the problems of abstraction, information, and understanding what is being asked in a dialog. "Hell, it can even be difficult for people sometimes! How do current models withstand this challenge? To create a dataset that includes question and answer pairs that depend on a conversation history! CoQA is the first dataset to go out to do it on a large scale! After the first question in a dialog, each question depends on the history of what was said. 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It is full of things called co-references that can be something as simple as a pronoun, but in general it is when two or more This is something that is still a pending problem in NLP (correlation resolution, resolution of pronouns, etc.), so incorporating this step into a question answer dataset increases the difficulty. About half of CoQA's questions contain an explicit coreference (some indicator like 'she, that). Well, it requires not only reading a passage to discover answers, but also having a conversation that information that information be reformulated and abstract answer. Chatbots... Well, chatbots don't do that. And it requires that that information be reformulated in an abstract rather than extractive way. This dataset doesn't look like anything we've seen answered! So, why do we need a dataset like CoQA? Well, simply because our current datasets just aren't doing it for us. This week has been a great week for natural language processing and I am very excited (and you should be too)! This week, I went to browse Arxiv Sanity Preserver as I normally do, what instead of being greeted by a flood of GAN-this or CNN-that, my eyes rested on two data sets that made me very happy. This is when you ask a question like "where?" We're asking for something to be resolved, but it's unresolved. The respondent is asked to highlight the part of the text of a passage that gives the answer and then respond in a different way than the one given in the passage (thus becoming abstract). All this (dadiruges (dadiruges noc setnainoicome nos sasoc sal orepiA ,jArtid ol opmeit le ofAS: serodjabart sod etrne ogoljAid nu ed ortned ozih for a challenge for all of us (just like I posed with QuAC)! We all can push to try and tackle this challenge and take conversational agents to the next evolution. The answer is not well. See for yourself! Will CoQA help us do to question answering what ImageNet did to image recognition? That's why CoQA was created, as outlined in its first goal! The creators of CoQA did an analysis of SQuAD versus CoQA and found that while about half of SQuAD questions are eAAAwatA questions, CoQA has a much wider, more balanced distribution of types of questions.

CoQA is a large-scale dataset for building Conversational Question Answering systems. The goal of the CoQA challenge is to measure the ability of machines to understand a text passage and answer a series of interconnected questions that appear in a conversation. [22] Reddy, Siva, Danqi Chen, and Christopher D. Manning. "Coqa: A conversational question answering challenge." Transactions of the Association for Computational Linguistics 7 (2019): 249-266. [23] Zhao, Tiancheng, Ran Zhao, and Maxine Eskenazi. "Learning discourse-level diversity for neural dialog models using conditional variational ...

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