## Datasets for Task-oriented Dialogue Systems

Table 2: Datasets for Task-oriented dialogue systems

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| --- | --- | --- | --- |
| **Name** | **Description** | **Task** | **Origin** |
| Schema | A dataset mainly for dialogue state tracking. | Dialogue State Tracking | [Rastogi et al.](#_bookmark311) ([2020](#_bookmark311)) |
| MetaLWOZ | Collected by crowdsourcing plat- forms, spanning over 227 tasks and 47 domains. This dataset is designed for learning in unseen domains. | Domain Transfer | [Lee et al.](#_bookmark207) ([2019](#_bookmark207)) |
| E2E | A dataset for end-to-end dialogue generation in restaurant domain. Data is collected in crowdsourced fashion. | End-to-end Task-oriented Dialogue Systems | [Novikova et al.](#_bookmark278) ([2017](#_bookmark278)) |

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| MSR-E2E | Contain dialogues spanning over 3 domains: movie-ticket booking, restaurant reservation, and taxi book- ing. | End-to-end Task-oriented Dialogue Systems | [Li et al.](#_bookmark221) ([2018b](#_bookmark221)) |
| YELPNLG | A corpus consisting of utterances spanning over different restaurant at- tributes. | Natural Language Generation | [Oraby et al.](#_bookmark279) ([2019](#_bookmark279)) |
| Clinical Conversation data set | It consists of conversations between physicians and participants. | Natural Language Un- derstanding | [Du et al.](#_bookmark105) ([2019](#_bookmark105)) |
| OOS | A large-scale dataset for intent de- tection. | Natural Language Un- derstanding | [Larson et al.](#_bookmark197) ([2019](#_bookmark197)) |
| ATIS | A dataset consisting of voice calls from people who intend to make flight reservations. | Natural Language Un- derstanding; Dialogue State Tracking | [Tur et al.](#_bookmark385) ([2010](#_bookmark385)) |
| MultiWOZ | Human-human written conversa- tions with rich annotations spanning over multi-domains. | Task-oriented Dialogue | [Budzianowski](#_bookmark63) [et al.](#_bookmark63) ([2018](#_bookmark63)) |
| SNIPS-NLU | Task-oriented dialogue dataset col- leted in a crowdsourced fashion. It was used to train voice assistant agents. | Task-oriented Dialogue | [https:](https://github.com/snipsco/nlubenchmark)  [//github.com/](https://github.com/snipsco/nlubenchmark) [snipsco/](https://github.com/snipsco/nlubenchmark) [nlubenchmark](https://github.com/snipsco/nlubenchmark) |
| bAbI | Restaurant table reservation dia- logues. | Task-oriented Dialogue | [Bordes et al.](#_bookmark58) ([2016](#_bookmark58)) |
| JDC | A Chinese customer service dataset, consisting of context-response pairs. | Task-oriented Dialogue | [https://www.](https://www.jddc.jd.com/) [jddc.jd.com](https://www.jddc.jd.com/) |
| UbuntuV2 | It consists of dialogues collected via Ubuntu question-answering forum. | Task-oriented Dialogue | [Lowe et al.](#_bookmark246) ([2015](#_bookmark246)) |
| MICROSOFT DIALOGUE CHALLENGE  data set | A task-oriented dataset collected via Amazon Mechanical Turk. | Task-oriented Dialogue | [Li et al.](#_bookmark221) ([2018b](#_bookmark221)) |
| WOZ | Task-oriented data collected in crowdsourced fashion. | Task-oriented Dialogue | [Wen et al.](#_bookmark414) ([2016c](#_bookmark414)) |
| DSTC series | Multi-domain task-oriented dataset. | Task-oriented Dialogue | [https://www.](https://www.microsoft.com/en-us/research/event/dialog-state-tracking-challenge/) [microsoft.](https://www.microsoft.com/en-us/research/event/dialog-state-tracking-challenge/) [com/en-](https://www.microsoft.com/en-us/research/event/dialog-state-tracking-challenge/) [us/research/](https://www.microsoft.com/en-us/research/event/dialog-state-tracking-challenge/) [event/dialog-](https://www.microsoft.com/en-us/research/event/dialog-state-tracking-challenge/) [state-](https://www.microsoft.com/en-us/research/event/dialog-state-tracking-challenge/) [tracking-](https://www.microsoft.com/en-us/research/event/dialog-state-tracking-challenge/) [challenge/](https://www.microsoft.com/en-us/research/event/dialog-state-tracking-challenge/) |
| SimDial | Simulated conversations spanning over multiple domains. | Task-oriented Dialogue | [Zhao and](#_bookmark465) [Eskenazi](#_bookmark465) ([2018](#_bookmark465)) |
| SMD | Human-human dialogues in weather, navigation and scheduling domain. | Task-oriented Dialogue | [Eric and](#_bookmark111) [Manning](#_bookmark111) ([2017](#_bookmark111)) |

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| BANKING | Question-answer pairs with 77 cate- gories in e-banking domain. | Task-oriented Dialogue | [Henderson et al.](#_bookmark161) ([2019b](#_bookmark161)) |
| Weather forecast | A task-oriented dataset in the weather domain. | Task-oriented Dialogue | [Balakrishnan](#_bookmark47) [et al.](#_bookmark47) ([2019](#_bookmark47)) |
| MedDialog- (EN,CN) | Large scale dataset in medical do- main consisting of conversations be- tween doctors and patients | Task-oriented Dialogue | [He et al.](#_bookmark154) ([2020b](#_bookmark154)) |
| CamRest | It consists of human-human multi- turn dialogues in restaurant domain. | Task-oriented Dialogue | [Wen et al.](#_bookmark412) ([2016a](#_bookmark412)) |
| Taskmaster | Contain dialogues spanning over 6 domains. It has 22.9 average length of conversational turns. | Task-oriented Dialogue | [Byrne et al.](#_bookmark65) ([2019](#_bookmark65)) |
| Frames | Conversational dataset with annota- tions of semantic frame tracking. | Task-oriented Dialogue | [Asri et al.](#_bookmark43) ([2017](#_bookmark43)) |
| JDDC | A Chinese customer service dataset, consisting of context-response pairs. | Task-oriented Dialogue | [Chen et al.](#_bookmark76) ([2019a](#_bookmark76)) |
| Court Debate Dataset | A task-oriented dataset in judicial field containing court debate conver- sations. | Task-oriented Dialogue | [Ji et al.](#_bookmark176) ([2020](#_bookmark176)) |
| TreeDST | A task-oriented dataset annotated with tree structured dialogue states and agent acts. | Task-oriented Dialogue | [Cheng et al.](#_bookmark81) ([2020](#_bookmark81)) |
| RiSAWOZ | Contain utterances for 12 domains, annotated with rich semantic infor- mation. | Task-oriented Dialogue | [Quan et al.](#_bookmark305) ([2020](#_bookmark305)) |
| Cambridge Restaurant | A task-oriented dataset in restaurant booking field. | Task-oriented Dialogue | [Wen et al.](#_bookmark414) ([2016c](#_bookmark414)) |
| SB-TOP | A task-oriented dataset with seman- tic parsing annotation. It spans over 4 domains: Reminder, Weather, Calling and Music. | Task-oriented Dialogue | [Aghajanyan et al.](#_bookmark36) ([2020](#_bookmark36)) |
| GSIM | A machine-machine task-oriented dataset. It covers two domains: restaurant table booking and movie ticket booking. | Task-oriented Dialogue | [Shah et al.](#_bookmark334) ([2018](#_bookmark334)) |
| SGD | A schema-guided dataset spanning over multiple domains. | Task-oriented Dialogue | [Rastogi et al.](#_bookmark311) ([2020](#_bookmark311)) |
| cite-8K | A task-oriented dataset collected in restaurant booking calls. | Task-oriented Dialogue | [Coope et al.](#_bookmark90) ([2020](#_bookmark90)) |

## Datasets for Open-domain Dialogue Systems

Table 3: Datasets for Open-domain dialogue systems

**Origin**

**Task**

**Description**

**Name**

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| Large-Scale Corpus for Conversation Disentanglement | A dataset consisting of messages an- notated with reply-structure graphs for dialogue disentanglement. | Conversation Disentagle- ment | [Kummerfeld](#_bookmark194) [et al.](#_bookmark194) ([2018](#_bookmark194)) |
| DuConv | Collected in conversations between a conversation leader and a conver- sation follower. | Conversation Topic | [Wu et al.](#_bookmark429) ([2019c](#_bookmark429)) |
| PERSUASION FOR GOOD | A topic-oriented dataset annotated with persuasion strategies. | Conversation Topic | [Wang et al.](#_bookmark402) ([2019b](#_bookmark402)) |
| MutualFriends | A topic-oriented dataset based on bot-bot stratigical conversations. | Conversation Topic | [He et al.](#_bookmark150) ([2017](#_bookmark150)) |
| SAMSum | A large-scale dialogue summary dataset. | Conversation Topic | [Gliwa et al.](#_bookmark130) ([2019](#_bookmark130)) |
| OpenDialKG | It consists conversations between two agents and each dialogue corre- sponds with a knowledge graph path annotation. | Conversation Topic; Dialogue Reasoning | [Moon et al.](#_bookmark271) ([2019](#_bookmark271)) |
| doc2dial | A dataset consisting of conversa- tions annotated with goals and ac- cociated documents. | Conversation Topic; Knowledge- Grounded System | [Feng et al.](#_bookmark118) ([2020b](#_bookmark118)) |
| DialEdit | A dataset constructed for image edit- ing via conversational language in- structions. | Conversational Image Editing | [Manuvina-kurike](#_bookmark257) [et al.](#_bookmark257) ([2018](#_bookmark257)) |
| CHART DIALOGS | A dataset containing dialogues de- scribing matplotlib plot features. | Conversational Plotting | [Shao and](#_bookmark337) [Nakashole](#_bookmark337) ([2020](#_bookmark337)) |
| CONAN | A multilingual dataset for hate speech tackling. | Dialogue Classification | [Chung et al.](#_bookmark87) ([2019](#_bookmark87)) |
| Dialogue NLI | A NLI dataset with sentences an- notated with entailment (E), neutral (N), or contradiction (C). | Dialogue Inference | [Welleck et al.](#_bookmark408) ([2018](#_bookmark408)) |
| MuTual | A dialogue reasoning dataset con- taining English listening comprehen- sion exams. | Dialogue Reasoning | [Cui et al.](#_bookmark92) ([2020](#_bookmark92)) |
| RST-DT | It consists of samples from 385 news articles annotated with dialogue fea- tures. | Discourse Parsing | [Carlson et al.](#_bookmark69) ([2002](#_bookmark69)) |
| NLPCC | A dataset consisting of emotional classification data. | Empathetic Response | [http://tcci.](http://tcci.ccf.org.cn/nlpcc.php) [ccf.org.cn/](http://tcci.ccf.org.cn/nlpcc.php) [nlpcc.php](http://tcci.ccf.org.cn/nlpcc.php) |
| MELD | A multi-party conversational dataset with emotion annotations. | Empathetic Response | [Poria et al.](#_bookmark290) ([2019](#_bookmark290)) |
| EMPATHETIC DIALOGUES | A dataset containing conversations annotated with emotion labels. | Empathetic Response | [Rashkin et al.](#_bookmark310) ([2018](#_bookmark310)) |
| IEMOCAP | Contain multi-party dialogues. Each dialogue is annotated with an emo- tion label. | Empathetic Response | [Busso et al.](#_bookmark64) ([2008](#_bookmark64)) |

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| EmoryNLP | Collected from Friends’ TV series, annotated with emotion labels. | Empathetic Response | [Zahiri and Choi](#_bookmark452) ([2017](#_bookmark452)) |
| MojiTalk | A largescale dataset collected from Twitter, including emojis. | Empathetic Response | [Zhou and Wang](#_bookmark472) ([2017](#_bookmark472)) |
| CBET | A dialogue dataset annotated with nine emotion labels: surprise, anger, love, sadness, joy, fear, guilt, disgust and thankfulness | Empathetic Response | [Yadollahi et al.](#_bookmark439) ([2017](#_bookmark439)) |
| Stanford Politeness Corpus | A conversational dataset annotated with politeness labels. | Empathetic Response | [Danescu-](#_bookmark96) [Niculescu-Mizil](#_bookmark96) [et al.](#_bookmark96) ([2013](#_bookmark96)) |
| AIT-2018 | Collected in SemEval-2018 Task 1: Affect in Tweets. | Empathetic Response | [Mohammad et al.](#_bookmark270) ([2018](#_bookmark270)) |
| EMOTyDA | A dataset containing short videos about multi-party conversations, each annotated with respective emo- tion. | Empathetic Response; Visual Dialogue | [Saha et al.](#_bookmark322) ([2020](#_bookmark322)) |
| Wizard of Wikipedia | A large-sclale dataset consisting of conversations grounded with Wikipedia knowledge. | Knowledge- Grounded System | [Dinan et al.](#_bookmark103) ([2018](#_bookmark103)) |
| CMU DoG | A dataset consisting of conversa- tions grounded with Wikipedia ar- ticles about popular movies. | Knowledge- Grounded System | [Zhou et al.](#_bookmark471) ([2018](#_bookmark471)) |
| Holl-E | Contain dialogues grounded with documents. | Knowledge- Grounded System | [Moghe et al.](#_bookmark269) ([2018](#_bookmark269)) |
| Interview | A dataset containing multi-party conversations in the form of inter- views. | Knowledge- Grounded System | [Majumder et al.](#_bookmark255) ([2020b](#_bookmark255)) |
| Curiosity | An open-domain dataset annotated with pre-existing user knowledge and dialogue acts, also grounding in Wikipedia. | Knowledge- Grounded System | [Rodriguez et al.](#_bookmark320) ([2020](#_bookmark320)) |
| KdConv | A chinese knowledge-grounded dia- logue dataset. | Knowledge- Grounded System | [Zhou et al.](#_bookmark470) ([2020](#_bookmark470)) |
| ELI5 | A QA dataset grounded with re- trieved documents. | Knowledge- Grounded System | [Fan et al.](#_bookmark113) ([2019](#_bookmark113)) |
| Topical Chat | A knowledge-grounded dataset where the knowledge spans over eight different topics. | Knowledge- Grounded System; Conversation Topic | [Gopalakrishnan](#_bookmark135) [et al.](#_bookmark135) ([2019](#_bookmark135)) |
| WHERE ARE YOU? | A dialogue dataset annotated with localization information. | Localization Dialogue | [Hahn et al.](#_bookmark144) ([2020](#_bookmark144)) |
| MMD | A multi-modal dataset consisting of dialogues between sales agents and shoppers. | Multi-modal Dialogue | [Saha et al.](#_bookmark321) ([2018](#_bookmark321)) |

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| OpenSubtitles | A multilingual dataset made up of movie captions, containing about 8 billion words. | Open-domain Dialogue | [Tiedemann](#_bookmark382) ([2012](#_bookmark382)) |
| NTCIR | A social media dataset collected from Sina Weibo. | Open-domain Dialogue | [http://](http://research.nii.ac.jp/ntcir/data/data-en.html) [research.nii.](http://research.nii.ac.jp/ntcir/data/data-en.html) [ac.jp/ntcir/](http://research.nii.ac.jp/ntcir/data/data-en.html) [data/data-](http://research.nii.ac.jp/ntcir/data/data-en.html) [en.html](http://research.nii.ac.jp/ntcir/data/data-en.html) |
| Twitter | A social media dataset collected from Twitter. | Open-domain Dialogue | [https:](https://github.com/Marsan-Ma-zz/chat%20corpus)  [//github.com/](https://github.com/Marsan-Ma-zz/chat%20corpus) [Marsan-Ma-](https://github.com/Marsan-Ma-zz/chat%20corpus) [zz/chatcorpus](https://github.com/Marsan-Ma-zz/chat%20corpus) |
| Douban Conversation Corpus | A social media dataset collected from Douban. | Open-domain Dialogue | [Zhang et al.](#_bookmark462) ([2018c](#_bookmark462)) |
| E-commerce Dialogue Corpus | It consists of conversations between customers and customer service staff on Taobao. | Open-domain Dialogue | [Zhang et al.](#_bookmark462) ([2018c](#_bookmark462)) |
| REDDIT | A social media dataset collected from REDDIT. | Open-domain Dialogue | [Henderson et al.](#_bookmark160) ([2019a](#_bookmark160)) |
| STC-SeFun | A social media dataset collected from Tieba, Zhidao, Douban and Weibo. | Open-domain Dialogue | [Bi et al.](#_bookmark55) ([2019](#_bookmark55)) |
| DailyDialog | A dataset consisting of daily dia- logues, annotated with conversation intention and emotion information. | Open-domain Dialogue | [Li et al.](#_bookmark224) ([2017c](#_bookmark224)) |
| PDTB | Dialogue dataset annotated with dis- course relations. | Open-domain Dialogue | [Prasad et al.](#_bookmark291) ([2008](#_bookmark291)) |
| Luna | Dialogue dataset with Italian rela- tion annotations. | Open-domain Dialogue | [Tonelli et al.](#_bookmark383) ([2010](#_bookmark383)) |
| Edina-DR | Dialogue dataset with English rela- tion annotations, which is based on Luna data set. | Open-domain Dialogue | [Ma et al.](#_bookmark250) ([2019](#_bookmark250)) |
| Cornell Movie Dialog Corpus | A dialogue dataset collected via IMDB database. | Open-domain Dialogue | [Danescu-](#_bookmark95) [Niculescu-Mizil](#_bookmark95) [and Lee](#_bookmark95) ([2011](#_bookmark95)) |
| Reddit Movie Dialogue Dataset | A movie dialogue dataset collected from Reddit. | Open-domain Dialogue | [Liu et al.](#_bookmark240) ([2020a](#_bookmark240)) |
| LIGHT | A dialogue dataset with configurable text adventure environment. | Open-domain Dialogue | [Urbanek et al.](#_bookmark388) ([2019](#_bookmark388)) |
| This American Life | A media dialogue dataset collected in long-form expository podcast episodes. | Open-domain Dialogue | [Mao et al.](#_bookmark258) ([2020](#_bookmark258)) |
| RadioTalk | A media dialogue dataset collected from radio transcripts. | Open-domain Dialogue | [Beeferman et al.](#_bookmark52) ([2019](#_bookmark52)) |
| French EPAC | A media dialogue dataset collected from news. | Open-domain Dialogue | [Esteve et al.](#_bookmark112) ([2010](#_bookmark112)) |

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| TREC  Conversational Assistance | An open-domain dataset spanning 30 conversation topics. | Open-domain Dialogue | [Dalton et al.](#_bookmark94) ([2020](#_bookmark94)) |
| Search as a Conversation | A dataset for conversations with search engines. | Open-domain Dialogue | [Ren et al.](#_bookmark318) ([2020](#_bookmark318)) |
| Amazon Alexa Prize Competition | A dataset containing real-world con- versations between Amazon Alexa customers and Gunrock, which is a champion chatbot. | Open-domain Dialogue | [Ram et al.](#_bookmark307) ([2018](#_bookmark307)) |
| SwitchBoard | An open-domain dataset containing English phone conversations. | Open-domain Dialogue | [Jurafsky](#_bookmark182) ([1997](#_bookmark182)) |
| Zhihu | A Chinese social media dataset with posts and comments. | Open-domain Dialogue | [https://www.](https://www.zhihu.com/) [zhihu.com](https://www.zhihu.com/) |
| SPOLIN | A dataset containing yes-and conver- sations. | Open-domain Dialogue | [Cho and May](#_bookmark82) ([2020](#_bookmark82)) |
| CRD3 | A dataset collected in the role- playing game Dungeons and Drag- ons. | Open-domain Dialogue | [Rameshkumar](#_bookmark308) [and Bailey](#_bookmark308) ([2020](#_bookmark308)) |
| Baidu Zhidao | A Chinese social media dataset with posts and comments. | Open-domain Dialogue | [https:](https://zhidao.baidu.com/)  [//zhidao.](https://zhidao.baidu.com/) [baidu.com/](https://zhidao.baidu.com/) |
| Webis Gmane Email Corpus 2019 | A conversational dataset collected from 153M emails. | Open-domain Dialogue | [Bevendorff et al.](#_bookmark54) ([2020](#_bookmark54)) |
| LibreSpeech Corpus | Contain 500 hours’ speech produced by 1252 participants. | Open-domain Dialogue | [Panayotov et al.](#_bookmark282) ([2015](#_bookmark282)) |
| Motivational Interviewing | A dialogue dataset about conversa- tional psychotherapy. | Open-domain Dialogue | [Tanana et al.](#_bookmark372) ([2016](#_bookmark372)) |
| SubTle Corpus | Contact Ameixa for data. | Open-domain Dialogue | [Lubis et al.](#_bookmark249) ([2018](#_bookmark249)) |
| TED-LIUM | TED-talk monologues. | Open-domain Dialogue | [Fung et al.](#_bookmark121) ([2016](#_bookmark121)) |
| ECG NLPCC  2017 Data | Conversational dataset extracted from Weibo. | Open-domain Dialogue | [Huang et al.](#_bookmark170) ([2018](#_bookmark170)) |
| SEMEVAL15 | QA dataset with answer quality an- notations via Amazon Mechanical Turk. | Question Answering | [Nakov et al.](#_bookmark275) ([2019](#_bookmark275)) |
| AMAZONQA | A QA dataset solving one-to-many problems. | Question Answering | [Wan and](#_bookmark395) [McAuley](#_bookmark395) ([2016](#_bookmark395)) |
| TGIF-QA | A video-grounded QA dataset. | Question Answering | [Jang et al.](#_bookmark174) ([2017](#_bookmark174)) |
| QuAC | A QA dataset with 14K QA dia- logues. | Question Answering | [Choi et al.](#_bookmark85) ([2018](#_bookmark85)) |
| SQuAD | A question-answering dataset col- lected in crowdsourced fashion. | Question Answering | [Rajpurkar et al.](#_bookmark306) ([2018](#_bookmark306)) |
| LIF | A dataset constructed based on QuAC. | Question Answering | [Kundu et al.](#_bookmark195) ([2020](#_bookmark195)) |

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| Yelp | It consists of customer reviews from Yelp Dataset Challenge | Response Retrieval | [Tang et al.](#_bookmark373) ([2015](#_bookmark373)) |
| Debates | The dataset consists of debates on Congerssional bills. | Response Retrieval | [Thomas et al.](#_bookmark380) ([2006](#_bookmark380)) |
| PERSONACHAT | It provides profile information of the agents and background of users. | Speaker Consistency and Personality Response | [Zhang et al.](#_bookmark458) ([2018b](#_bookmark458)) |
| KvPI | Contain consistency annotations be- tween response and corresponding key-value profiles. | Speaker Consistency and Personality Response | [Song et al.](#_bookmark352) ([2020b](#_bookmark352)) |
| ConvAI2 | A dataset constructed on the base of Persona-Chat, each conversation having profiles from a set containing persona candidates. | Speaker Consistency and Personality Response | [Dinan et al.](#_bookmark104) ([2019](#_bookmark104)) |
| PEC | An open-domain dataset annotated with persona labels. | Speaker Consistency and Personality Response; Empathetic Response | [Zhong et al.](#_bookmark468) ([2020](#_bookmark468)) |
| GuessWhat?! | A visual dialogue dataset for a two- player game about object recogni- tion. | Visual Dialogue | [De Vries et al.](#_bookmark97) ([2017](#_bookmark97)) |
| VisDial | A visual dialogue dataset whose im- ages are obtained from COCO data set. | Visual Dialogue | [https://](https://visualdialog.org/%20data) [visualdialog.](https://visualdialog.org/%20data) [org/data](https://visualdialog.org/%20data) |
| AVSD | A video-grounded dialogue dataset. | Visual Dialogue | [Yoshino et al.](#_bookmark447) ([2018](#_bookmark447)) |
| VFD | A visual dialogue dataset annotated with unique eye-gaze locations. | Visual Dialogue | [Kamezawa et al.](#_bookmark184) ([2020](#_bookmark184)) |
| PhotoBook | A dataset for task-oriented visual di- alogues. | Visual Dialogue | [Haber et al.](#_bookmark143) ([2019](#_bookmark143)) |
| IGC | A dataset containing conversations discussing a given image. | Visual Dialogue | [Mostafazadeh](#_bookmark272) [et al.](#_bookmark272) ([2017](#_bookmark272)) |
| Image-Chat | Contain conversations grounded with images. The conversations are also annotated with personality. | Visual Dialogue; Speaker Consistency and Personality Response | [Shuster et al.](#_bookmark340) ([2018](#_bookmark340)) |