Appendix

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1 Qualitative Output

The dialog generated by self-talk between different SL model variants is provided in Table. 3 and different RL model variants is provided in Table. 4. We observe the variants with Diverse-Q-BOT tend to generate more diverse, image relevant and fluent dialog.

2 Experiments with Diverse-A-BOT

We also ran experiments where we used the repetition penalty (Eqn. (1) in the main paper) during SL pre-training of A-BOT. In Tables 1 and 2 we report results on the A-BOT retrieval metrics (Das et al., 2017a) and the diversity metrics respectively. In Fig. 1, we provide the performance of various Q-BOT variants paired with this Diverse-A-BOT on the image-guessing task.

We note that retrieval metrics for Diverse-A-BOT are better than vanilla SL: A-BOT. Therefore, this repetition penalty does help significantly during supervised pre-training. However, finetuning the Diverse-A-BOT via RL does not lead to significant improvements.

We note that for the diversity metrics on Q-BOT-A-BOT dialog, self-talk with Diverse-A-BOT does not change the diversity metrics significantly. We observe the same trend in image-guessing performance as well.

3 Model Architecture details

We use a Hierarchical Recurrent Encoder (HRE) for representing dialog context. In this encoder the image representation is concatenated with every question word when fed to the LSTM. We then encode each QA-pair in the dialog history with another LSTM with shared weights. The image-question representation, computed for

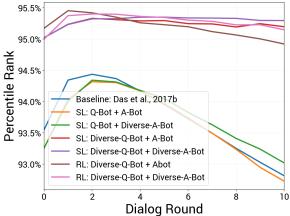


Figure 1: Performance on the image-guessing task. Percentile rank (higher is better) of the true image (shown to A-BOT) as retrieved using fc7 image feature predictions from Q-BOT.

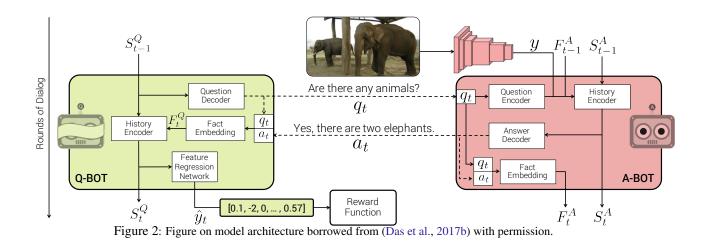
every round from 1 through t, is concatenated with history representation from the previous round. This gives us a set of t question-history vectors for t rounds. These vectors are fed as input to a dialog-level LSTM, whose output state at t is used to decode the response to Q_t . 2 shows the model architecture of the HRE.

All LSTMs are 2-layered with 512-dim hidden states. We learn 300-dim embeddings for words and images. These word embeddings are shared across question, history, and decoder LSTMs.

References

Abhishek Das, Satwik Kottur, Khushi Gupta, Avi Singh, Deshraj Yadav, José M.F. Moura, Devi Parikh, and Dhruv Batra. 2017a. Visual Dialog. In *CVPR*. 1, 2, 3, 4

Abhishek Das, Satwik Kottur, José M.F. Moura, Stefan Lee, and Dhruv Batra. 2017b. Learning Cooperative Visual Dialog Agents with Deep Reinforcement Learning. In *ICCV*. 2, 4



	v1.0 val					v1.0 test-std						
	NDCG \uparrow	MRR \uparrow	R @1↑	R@5↑	R@10 ↑	Mean Rank↓	NDCG \uparrow	MRR \uparrow	R @1↑	R@5 ↑	R@10 ↑	Mean Rank↓
Baseline: Das et al. (2017b)	53.76	46.35	36.22	56.15	62.41	19.34	51.60	45.67	35.05	56.30	63.25	19.15
Diverse SL A-BOT	53.82	46.55	36.46	56.16	62.68	19.34	51.77	45.98	35.58	56.33	63.08	18.97
Diverse RL A-BOT (Finetuned with Diverse-A-BOT)	53.94	46.67	36.54	56.34	62.99	19.24	51.80	45.70	34.85	56.33	63.90	18.88

Table 1: A-BOT performance on the VisDial v1.0 dataset (Das et al., 2017a). Arrow indicates direction of better performance.

			Diversity					Relevance
	# Novel questions ↑	# Unique questions ↑	Mutual overlap↓	Ent-1 ↑	Ent-2 ↑	Dist-1 ↑	Dist-2 ↑	Negative log likelihood ↓
Baseline: Das et al. (2017b)	71	6.70 ± 0.07	0.58 ± 0.01	2.72 ± 0.01	3.03 ± 0.02	0.35 ± 0.0	0.43 ± 0.0	9.94
SL: Q-BOT + Diverse-A-BOT	53	6.58 ± 0.07	0.60 ± 0.01	2.71 ± 0.01	3.00 ± 0.01	0.34 ± 0.0	0.42 ± 0.0	10.05
SL: Diverse-Q-BOT + Diverse-A-BOT	136	7.42 ± 0.07	0.50 ± 0.01	2.81 ± 0.01	3.18 ± 0.01	0.38 ± 0.0	0.48 ± 0.0	10.10
RL: Diverse-Q-BOT + Diverse-A-BOT	288	7.87 ± 0.06	0.46 ± 0.01	2.86 ± 0.01	3.24 ± 0.01	0.39 ± 0.0	0.51 ± 0.0	10.32

Table 2: Q-BOT diversity and relevance on v1.0 val. ↑ indicates higher is better. ↓ indicates lower is better.

	Human-Human dialog (Das et al., 2017a)	Q-BOT-A-BOT dialog	Diverse-Q-BOT-A-BOT dialog
	what color is the cutting board? blue	is the photo in color ? no	is the photo in color ? 1 picture is in
	how big is it about the size of a regular laptop screen	how many people do you see ? no people this a close up ?	is the photo close up ? black and
	how many carrots are there ? 4	no	is the photo in color ? no it 's black and
	are they the orange kind ? 2 are orange , 2 are	is this a close up ? zebra is	is it a close up ? no it 's a close up of the
	white what kind of cell phone is it ? a samsung	is this a close up ? no is this a close up ? no	can you tell what brand it is ? no i ca n't see the l can you tell if it 's a male or female ? no i ca n
	can you see any text on the screen ? a recipe for UNK UNK soup	is this a close up ? no is this a close up ? no	can you tell if it 's a male or female ? no i can
	for UNK UNK soup do you see the room ? just the counter	is this a close up ? no	is this in a kitchen ? nope it 's in a l
	are there people ? Just the counter are there people ? not visible	is this a close up ? no	are there any utensils ?
utting board with carrots next	are there people ? not visible what color is the counter ? white t to a cell phone.	is this a close up ? no	are there any utensils ?
	is the field large ? yes	what color are the cows ? they are brown and white	do you see any people ?
	is the grass green or brown ? green can you see a barn ? no	how many cows are there ? 4 what color are the cows ? they are brown and white	do you see a fence ? a sr how many cows are there ?
	can you see a barn ? no can you see a fence ? no	can you see the sky ? It is not visible	what color are the cows ? black and
11 Mar 19	can you see a water supply ? yes	do you see any trees ? i do not see any trees	can you see the sky ?
ALL DEAL CONTRACTOR	can you see any people ? no	can you see the sky ? green sky	can you see the sky ?
	can you see trees ? yes	are there any clouds ? the sky is not visible	are there any other animals ? not that i ca
	can you see mountains in the background ? no	how many cows are there ? 2	can you see the sky ? not
	is the grass tall or short ? short	what color are the cows ? the cows are brown and white	are there any trees ? in the backgr can you see the sky ? not
ny brown and black cows star		what color are the cows ? they are brown	
	what type of building ? may be part of a zoo	how many elephants are there ? ca n't tell what color are the elephants ? ca n't tell	how many elephants are there ? any people ? ca n't se
	how many elephants ? about 4	how many elephants are there?	male or female ? ca it is
	is it sunny ? clear day , yes	what color is the fence ? i ca n't tell	what is the elephant doing ? just standing
	any trees ? yes what color is the building ? dark grey	can you see the sky ? i ca n't see the sky	male or female ? there are 2 males and 1 fe
	are there other animals ? no	are there any trees ? just a few	can you see the sky ?
A DE AND	are there any people ? yes	does this look like a zoo ? 1 of them is	what color is the building ? just a black and white pi
	what are they wearing ? shorts and shirts	are there any people ? nothing in the picture	do you see any trees ? there are trees in the backgr
	how many ? 3	how many elephants are there ? just 1	are there any other animals ? red and
ny elephants standing in an er		can you see the sky ? just a little	do you see any trees ? i see some in the backgr
ny elephanis stanting ill dil ti	is the photo in color ? yes	is the photo in color ? 5 of them are	is the photo in color ?
No la	is there humans in the photo? no	are there any people ? it 's a close up so i ca n't see any	is there any people ?
	is there any animals in the photo ? no	people	what color walls ? i ca n't see the
	what color are the walls ? tan	what color is the sink ? about the same color as the toilet	is there a mirror ?
-	what color is the sink ? white	do you see a mirror ? no	is there a mirror ?
1 A	is there any towels ? no	what color is the sink ? yes it is white	is there a mirror ?
	is there any pictures on the wall ? no	what color is the sink ? yes it is white	are the walls seen ? what color are the walls ?
1	what color is the tub ? white	what shape is the mirror ? yes, it 's a rectangle	
Anting of the task is in the h	can you see the floor ? no	are there any towels ? he 's on a towel rack	what is the floor made of ? what color is the floor ? i can't see the
	athroom mirror along with the sink , you can	see are there any towels ? i do n't see any towels are there any towels ? i do n't see any towels	what color is the noor ?
the room	about how many cows ? over a dozen	is the photo in color ? yes	how many cows are there ? abo
	are there any calves ? no	is there any people ? no	what color are the cows ? black and
	are they eating ? yes	is there a fence ? no	how many cows are there ? abo
and the set of the set of the set	are they eating ? yes is it sunny ? no	is there a fence ? no is there a fence ? no	what color are the cows ? black and
· ····································	are they eating ? yes is it sunny ? no is there a fence around them ? no	is there a fence ? no is there a fence ? no is there a fence ? no	what color are the cows ? black and what is the weather like ?
****	are they eating ? yes is it sunny ? no is there a fence around them ? no do you see any buildings ? no	is there a fence ? no is there a fence ? no is there a fence ? no is there a fence ? no	what color are the cows ? black and what is the weather like ? are there any trees ?
	are they eating ? yes is it sunny ? no is there a fence around them ? no do you see any buildings ? no mountains in the background ? no	is there a fence ? no is there a fence ? no	what color are the cows ? black and what is the weather like ? s are there any trees ? are there any people ?
	are they eating ? yes is it sunny ? no is there a fence around them ? no do you see any buildings ? no mountains in the background ? no is there snow on the ground ? no	is there a fence ? no is there a fence ? no	what color are the cows ? black and what is the weather like ? s are there any trees ? are there any trees ? are there any trees ?
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kitchen is UNK with dark we	are they eating ? yes is it sumy ? no o to there a fence around them ? no o to you see any buildings ? no mountains in the background ? no is there snow on the ground ? no is there snow on the ground ? no is there snow on the ground ? white is there a window present ? yes sisty field what color are the kitchen walls ? white is there a window present ? yes are there pictures paintings hanging up ? no is the stove visible ? black and silver are there ary people visible ? no what color is the store? black and silver are there any people visible ? no what color is the nearly staticrase ? dark brown is the staticrase carpeted ? no are the handrails of the staticrase visible ? yes odd cabinets and a nearby staticrase? how many men ? 3 how big is the kitchen ? small industrial what is the leage range ? teens to 40s is the kitchen blong in a house or a restaurant ? and there any decorations in the kitchen ? cooking and mixing food what kind of floor in the kitchen ? ic an't tell is there any decorations in the kitchen ? no is the kitchen ? mo to be the men seem to be UNK ? they seem UINK working 11 a kitchen?	is there a fence ? no is there a two? yes is there a two? no can you see the floor ? yes are there any windows ? no can you see the floor ? yes can you see the floor ? yes are there any windows ? no can you see the floor ? yes can you see the floor ? yes is the photo is it ? the photo is black and white can you see the sink ? does n't look like it can you see the sink ? does n't look like it is the photo in color ? it is is the photo in color ? it is is the photo in color ? it is do you see any other people ? it is a close up of the man 's hand, so i can 't tell how old is the man ? is he weating glasses ? ic can 't see his floor is he photo in color ? is the photo in color ? is no is the photo in color ? is the photo in color ? is no is the photo in color ?	what is the weather like ? black and' what is the weather like ? s are there any press ? are there any people ? are there any tress ? are there any buildings ? are there any tress ? black and' is the kitchen clean ? is 's clut are there any buildings ? are there any buildings ? are there any buildings ? are there any buildings ? are there any buildings ? are the appliances stainless steel ? is clut are there any people ? are the appliances stainless steel ? ic a n are the appliances stainless steel ? ic a n are the apople in the kitchen ? is the kitchen clean ? is the kitchen clean ? is the kitchen clean ? how many men are there ? looks like 2 men and I w how do do they look ? is hard to tell , but they look kike they are in 20s how old do they look ? looks to be in their are they wearing pars ? are they are any posto an the stove ? not that ic a does the kitchen look clean ? are there any posto in the stove ? not that ic a does the kitchen look clean ? do you see any windows ? ca n't see any windows ? are there any people in the photo ? is the photo in color ? is is targotesisonal photo ? id on 't thi how many people ? is the atblocolin (not the tab

a half-eaten chicken breast is next to an UNK piece of bread and a small serving of green beans and carrots

Table 3: Selected examples of dialog on v1.0 VisDial test split for different SL variants. We observe that variant involving Diverse-Q-BOT generates more diverse, image relevant and fluent dialog.

	et al., 2017a)	(Das et al., 2017b) o	tialog	RL: Diverse-Q-BOT-A-BOT	naiog
	what color is the cutting board? blue	is the photo in color ?	no	is the photo in color ?	black and
	how big is it about the size of a regular laptop	is the photo close up ?	no	is there any people ?	1
	screen how many carrots are there ? 4	how many people ?	cows	is this indoors or outdoors ?	nc
	are they the orange kind? 2 are orange, 2 are	is this a close up ?	2 of them are	is the person male or female ?	up close , i ca n
	white	what are they wearing ?	no shirt and jeans	can you tell what kind of sandwich it is ?	•
	what kind of cell phone is it ? a samsung	what are they wearing ?	no shirt and jeans	is there a knife ?	
	can you see any text on the screen ? a recipe for UNK UNK soup	do you see other people ?	sunny 1 in the background	is there a cutting board ?	
	do you see the room ? just the counter	what color are the scissors ?		are the carrots cut up ?	da
	are there people ? not visible	is this in a kitchen ?	yes	is the scene well lit ?	
utting board with carrots new	what color is the counter ? white xt to a cell phone.	do you see the counter ?	no	are the carrots raw or cooked ?	
	is the field large ? yes is the grass green or brown ? green	can you see any people ? can you see the sky ?	nope a little bit	are the cows all the same color ? th do any of the cows have horns ?	ey are different shades of bro it does n't look lik
	can you see a barn ? no	are there any clouds ?	i ca n't see the sky	do you see a fence ?	there is no fer
	can you see a fence ? no	are there any other animals ?	not that i can see	how many cows are there ?	
H YAL	can you see a water supply ? yes	do you see any trees ?	lots of trees	can you see the sky ?	10
AND DEAL OF THE OWNER.	can you see any people ? no	how many cows are there ?	ca n't tell, they are far away	what color is the grass ?	the grass is gr
and the second s	can you see trees ? yes	do you see any buildings ?	i do not	can you see the sky ? does it appear to be sunny ?	it is not visi not rea
	can you see mountains in the background ? no	can you see the sky ?	ca n't see the sky	can you see the sky ?	not al
ny brown and black cowe st	is the grass tall or short ? short	do you see any clouds ? can you see the sky ?	ca n't see the sky ca n't see the sky	can you see the ground ?	a little
ny brown and black cows sta	what type of building ? may be part of a zoo	do you see people ?	2	can you see any people ?	
	how many elephants ? about 4	how many elephants ?	not sure	what are the elephants doing ?	just standing ar
	is it sunny ? clear day, yes	does the elephant have tusks		how many people are there ?	a lot , too many to
ALL -	any trees ? yes	does the elephant have tusks		does this look like a zoo ?	not
A REAL PROPERTY AND A	what color is the building ? dark grey	does the elephant have tusks		how many elephants are there ?	in the distance there are
	are there other animals ? no	any other animals ?	not that i can see	does this look like a parade ?	a litt
Service and the service of the servi	are there any people ? yes	does the elephant have tusks		does this look like a circus ?	
A CONTRACTOR OF THE OWNER OWNE	what are they wearing ? shorts and shirts	does the elephant have tusks	s? not that i can see	can you see any signs ?	there is a sign on the
	how many ? 3	does the elephant have tusks		does it look like it is in the usa?	i do n't thi
ny elephants standing in an		can you see the sky ?	1 of it	can you see the sky ?	
ay explaints stationing if all	is the photo in color ? yes	how big is the bathroom ?	ca n't see the whole room	how big is the bathroom ?	it 's prett
×	is there humans in the photo ? no	how big is the mirror ?	i can only see a small part of it	is it clean ?	n
	is there any animals in the photo ? no	what color is the sink ?	there is no sink	how big is the mirror ?	i can only see a small par
	what color are the walls ? tan	what color is the sink ?	black	what color is the wall ?	maybe
-	what color is the sink ? white	what color is the sink ?	yes	is there a shower curtain ?	there is no shower cu
1 A	is there any towels ? no	what color are the walls ?	he is white	is there a mirror ?	
0	is there any pictures on the wall ? no	is there a mirror ?	yes	what shape is the mirror ?	yes , it 's a rect
1	what color is the tub ? white	are there any people ?	he is alone	what color is the wall ?	i ca n't see the
	can you see the floor ? no	are there any animals ? what color is the sink ?	white cat yes	are there any people ? is there a window ?	he 's the o i do n't
eflection of the tub is in the b	bathroom mirror along with the sink , you can see	ee all the room	905		
	about how many cows ? over a dozen	is the photo in color ?	yes	how many cows are there ?	abo
	are there any calves ? no	is there any people ?	no	what color are the cows ?	black and
diate a co	are they eating ? yes	how many cows ?	black and white cows	are any of them babies ?	
NO. OF THE OWNER TO ANY	is it sunny ? no is there a fence around them ? no	is there a fence ?	no	how many cows are there ? are there any people in the photo ?	abo
A CONTRACTOR OF THE OWNER	do you see any buildings ? no	is there a fence ? is there a fence ?	no no	are there any people in the photo? are there any other animals in the photo?	
The second se				are there any buildings in the photo?	
And a state of the second			no	are more any bundings in the photo :	
	mountains in the background ? no	is there a fence ?		are there any trees ?	
	mountains in the background ? no is there snow on the ground ? no	is there a fence ?	no	are there any trees ?	
Inch of cows that are in a gr	mountains in the background ? no is there snow on the ground ? no any trees ? yes		no no no	are there any trees ? is there a fence ? is it sunny out ?	
unch of cows that are in a gr	mountains in the background ? no is there snow on the ground ? no any trees ? yes rassy field what color are the kitchen walls ? white	is there a fence ? is there a fence ? is there a fence ? is this in color ?	no no no	is there a fence ? is it sunny out ? what color are the appliances ?	black and
unch of cows that are in a gr	mountains in the background ? no is there snow on the ground ? no any trees ? yes rassy field what color are the kitchen walls ? white is there a window present ? yes	is there a fence ? is there a fence ? is there a fence ? is this in color ? do you see any people ?	no no no	is there a fence ? is it sunny out ? what color are the appliances ? is there a window ?	black and
unch of cows that are in a gr	mountains in the background ? no is there show on the ground ? no any trees ? yes raassy field what color are the kitchen walls ? white is there a window present ? yes are there pictures paintings hanging up ? no	is there a fence ? is there a fence ? is there a fence ? is this in color ? do you see any people ? do you see a stove ?	no no no standing	is there a fence ? is it sunny out ? what color are the appliances ? is there a window ? is there a sink ?	black and
unch of cows that are in a gr	mountains in the background ? no is there snow on the ground ? no any trees ? yes rassy field what color are the kitchen walls ? white is there a window present ? yes are there pictures paintings hanging up ? no is the stove wishle ?	is there a fence ? is there a fence ? is there a fence ? is this in color ? do you see any people ? do you see a stove ? are there any windows ?	no no no standing white windows	is there a fence ? is it sunny out ? what color are the appliances ? is there a window ? is there a sink ? can you see a refrigerator ?	black and
unch of cows that are in a gr	mountains in the background ? no is there show on the ground ? no any trees ? yes assy field what color are the kitchen walls ? white is there a window present ? yes are there pictures paintings hanging up ? no is the stove visible ? yes what color is the stove ? black and silver	is there a fence ? is there a fence ? is there a fence ? do you see any people ? do you see a stove ? are there any windows ? can you see the floor ?	no no standing white windows metal floor	is there a fence ? is it sunny out ? what color are the appliances ? is there a window ? is there a a window ? can you see a refrigerator ? are there any people ?	black and
unch of cows that are in a gr	mountains in the background ? no is there snow on the ground ? yes rassy field what color are the kitchen walls ? white is there a window present ? yes are there pictures paintings hanging up ? no is the stove visible ? yes what color is the stove ? black and silver are there any people visible ? no	is there a fence ? is there a fence ? is there a fence ? is this in color ? do you see any people ? do you see a stove ? are there any windows ? can you see the floor ? can you see the floor ?	no no no standing white windows metal floor brown tile	is there a fence ? is it sumny out ? what color are the appliances ? is there a window ? is there a sink ? can you see a refrigerator ? are there any people ? is it daytime ?	
unch of cows that are in a gr	mountains in the background ? no is there show on the ground ? no any trees ? yes assy field what color are the kitchen walls ? white is there a window present ? yes are there pictures paintings hanging up ? no is the stove visible ? yes what color is the stove ? black and silver	is there a fence ? is there a fence ? is there a fence ? is this in color ? do you see any people ? do you see a stove ? are there any windows ? can you see the floor ? can you see the floor ?	no no standing white windows metal floor brown tile yes	is there a fence ? is it sumny out ? what color are the appliances ? is there a window ? is there a sink ? can you see a refrigerator ? are there any people ? is it daytime ? is it sumny out ?	just a
unch of cows that are in a gr	mountains in the background ? no is there stow on the ground ? yes cassy field what will be a stored on the store what color are the kitchen walls ? white is there a window present ? yes are there pictures paintings hanging up ? no is the stove visible ? black and silver are there any people visible ? no what color is the neurby stuircase ? dark brown is the staircase carpeted ? no	is there a fence ? is there a fence ? is there a fence ? is this in color ? do you see any people ? do you see a stove ? are there any windows ? can you see the floor ? can you see the floor ? can you see the floor ? is it tild ?	no no standing white windows metal floor brown tile yes no	is there a fence ? is it sumny out ? what color are the appliances ? is there a window ? can you see a refrigerator ? are there any people ? is it daytime ? is it daytime ? is there a window ?	just a
	mointains in the background ? no no is there snow on the ground ? yes rassy field white the source of the source of the source what color are the kitchen walls ? white is there a window present ? yes are there pictures paintings hanging up ? no is the stove visible ? yes what color is the stove ? black and silver are there any people visible ? no what color is the nearby staircase ? dark brown is the staircase carpeted ? no are the handrails of the staircase visible ? yes	is there a fence ? is there a fence ? is there a fence ? is this in color ? do you see any people ? do you see a stove ? are there any windows ? can you see the floor ? can you see the floor ?	no no standing white windows metal floor brown tile yes no short window	is there a fence ? is it sumny out ? what color are the appliances ? is there a window ? is there a sink ? can you see a refrigerator ? are there any people ? is it daytime ? is it sumny out ?	just a
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	mountains in the background ? no is there snow on the ground ? no any trees ? yes rassy field what color are the kitchen walls ? white is there a window present ? yes are there pictures paintings hanging up ? no is the stove visible ? black and silver are there any people visible ? no what color is the nearby staircase ? dark the staincase carpeted ? no are the handrails of the staircase visible ? yes vood cabinets and a nearby staircase how Waj si the kichen ? small industrial	is there a fence ? is there a fence ? is there a fence ? is this in color ? do you see any people ? do you see a stowe ? are there any windows ? can you see the floor ? can you see the floor ? is it tiled ? do you see a window ? are there curtains on the win can you see the fridge ? can you see the fridge ?	no no standing white windows metal floor brown tile yes no short window yes yep kind of	is there a fence ? is it sumy out ? what color are the appliances ? is there a window ? is there a in cfrigerator ? can you see a refirerator ? are there any people ? is it daytime ? is it sumy out?? can you see the floor ? do you see a stove ? can you tell what kind of food they are ? 1 is	just a t
	mountains in the background ? no no is there stow on the ground ? no any trees ? yes rassy field what color are the kitchen walls ? white is there a window present ? yes are there pictures paintings hanging up ? no is the stove visible ? yes what color is the stove ? black and silver are there any people visible ? no what color is the nearby staircase ? wood cabinets and a nearby staircase how many men ? 3 how big is the kitchen ? small industrial what is din ser ange range ? teens to 40s	is there a fence ? is there a fence ? is there a fence ? is this in color ? do you see any people ? do you see any people ? do you see a stove ? can you see the floor ? can you see the floor ? can you see the floor ? do you see a window ? are there curtains on the window ? can you see the floor ? is it tiled ? do you see a window ? are there curtains on the window ? can you see the fridge ? does it have a freezer on it ?	no no standing white windows metal floor brown tile yes o short window yes yep kind of nope	is there a fence ? is it sumny out ? what color are the appliances ? is there a window ? is there a sink ? can you see a refrigerator ? are there any people ? is it daytime ? is it sumny out ? is there a window ? can you see the floor ? do you see a stove ? can you tell what kind of food they are ? - 1 is does the kitchen look clean ?	just a i can not tell what kind of 1 fairly
	mointains in the background ? no is there snow on the ground ? no any trees ? yes rassy field what color are the kitchen walls ? white is there a window present ? yes are there pictures paintings hanging up ? no is the stove visible ? back and silver are there any people visible ? no what color is the stove? black and silver are there any people visible ? no what color is the nearby staircase ? dark brown is the staircase carpeted ? no avod cabinetes and a nearby staircase bow many men ? 3 how big is the kitchen ? small industrial what is the age range ? teens to 40k is the kitchen ?	is there a fence ? is there a fence ? is there a fence ? is this in color ? do you see a ny people ? do you see a stow ? are there any windows ? can you see the floor ? can you see the floor ? can you see the floor ? is it tild ? do you see a window ? are there curtains on the win can you see the fridge ? can you see the fridge ? does it have a freezer on it ? how many men are there ?	no no standing white windows metal floor brown tile yes no short window yes yes yes kind of nope can't tell	is there a fence ? is it sumy out ? what color are the appliances ? is there a window ? is there a in cfrigerator ? can you see a refirerator ? are there any people ? is it daytime ? is it sumy out ? can you see the floor ? do you see a stove ? can you tell what kind of food they are ? 1 is does the kitchen look clean ? do you see any windows ?	just e t can not tell what kind of f fairly partially in the backg
	mountains in the background ? no no is there stow on the ground ? no any trees ? yes rassy field what color are the kitchen walls ? white is there a window present ? yes are there pictures paintings hanging up ? no is the stove visible ? yes what color is the stove ? black and silver are there any people visible ? no what color is the nearby staircase ? wood cabinets and a nearby staircase how many men ? 3 how big is the kitchen ? small industrial what is din ser ange range ? teens to 40s	is there a fence ? is there a fence ? is there a fence ? is this in color ? do you see a ny people ? do you see a stow ? are there any windows ? can you see the floor ? can you see the floor ? can you see the floor ? is it tild ? do you see a window ? are there curtains on the win can you see the fridge ? can you see the fridge ? does it have a freezer on it ? how many men are there ?	no no standing white windows metal floor brown tile yes o short window yes yep kind of nope	is there a fence ? is it sumny out ? what color are the appliances ? is there a window ? is there a sink ? can you see a refrigerator ? are there any people ? is it daytime ? is it sumny out ? is there a window ? can you see the floor ? do you see a stove ? can you tell what kind of food they are ? - if is does the kitchen look clean ? do you see any curtains ?	just a t can not tell what kind of f fairly partially in the backg maybe i in the backg
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kitchen is UNK with dark v	mointains in the background ? no is there show on the ground ? no any trees ? yes rassy field what color are the kitchen walls ? white is there a window present ? yes are there jetures paintings hanging up ? no is the stove visible ? black and silver are there any people visible ? no what color is the nearly staticrase ? dark the static static staticrase ? and the is the static staticrase ? and the is the staticrase carpeted ? no are the handrails of the staticrase visible ? wood cabinets and a nearby staticrase how big is the kitchen ? and in the staticrase what is the age range ? teens to 40s is the kitchen belong in a house or a restaurant ? restaurant ? what are they doing in the kitchen ? cooking and mixing food what is the kitchen ? cooking and mixing food is there are they doing in the kitchen ? no is the kitchen look clean ? no does the mescent to be UNK ? they seem UNK wooking in a kitchen is in the aitcheat ? what kit of sauces are there in the back ? is the drink in the cup soda what is the food on ? bread and vegetable is it in a aitchen is an aking the questions here ? yes you are what is the food on ? bread, and yegetable s, chicken and drink are they on a table ? wook kido is sight	is there a fence ? is there a fence ? is there a fence ? is there a fence ? is this in color ? do you see a stove ? are there any people ? do you see a stove ? can you see the floor ? can you see the floor ? can you see the floor ? is it tiled ? do you see a window ? are there curtains on the wir can you see the florge ? does it have a freezer on i? how old out set the fridge ? does it have a freezer on i? how old out reture new ? is an it cell how old are the men ? ic an ? how old out men how? ? are there any utensils ? are there any	no no standing white windows metal floor brown tile yes no short window yes yes yey kind of nope ca n' tell and to tell , but i'd say in their 's a black and white photo so i t see their faces , i do n't t see their faces , i do n't i see their faces , i do n't no i sa n't see their faces , i do n't si see ar tot a few ar no no si lere spoon bige spoon i see a fork yes a fork and a knife O that i can see	is there a fence ? is it sumy out ? what color are the appliances ? is there a window ? is there a kink ? can you see a refigerator ? are there any people ? is it daytime ? is there a window ? can you see the floor ? do you see the thoor ? do you see the thoor ? do you see a stove ? can you see the floor ? do you see any windows ? are they waring hats ? are they waring hats ? are they waring hats ? are they smilling ? are they smilling ? are they mark are the people of the picture ? are they smilling ? are they are mark and or food they are ? what are the people of ? what are the or flow are male or female ? can you tell if the yeare male or female ? can you tell if they are male or female ?	fairly partially in the backgr maybe 1 in the backgr en a can't see their i tooks like th i can't see their i can t see their i can the camera, the other is loo i can ? i can't see their face, i i can t see their face, i
kitchen is UNK with dark v	mointains in the background ? no is there show on the ground ? no any trees ? yes rassy field what color are the kitchen walls ? white is there a window present ? yes are there juicures paintings hanging up ? no is the stove visible ? back and silver are there any people visible ? no what color is the nearly staticase ? dark brown is the staticase carpeted ? no are the handrails of the staticase visible ? yes wood cabinets and a nearby staticase? bow many men ? 3 how hg is the kitchen ? small industrial what is the age range ? teens to 40% is the kitchen P staticase what is the light and the kitchen ? coking and mixing food what kind of floor in the kitchen ? coking and mixing food what kind floor in the kitchen ? no is the kitchen look clean ? no does the men scent to be UNK ? they seem UNK working in a kitchen whot is the food on ? bread and vegetable is it in a plate ? what kind of sauces are there in the back i am asking the questions here ? yes you are what sind befood on ? bread, vegetables is chicken and drink are they on a table ? yes they are any people ? there are n't any people in sight what circher ? is the kitchen ? is the sitcher and or is the kitcher ? is yes they are any people ? there are n't any people in sight	is there a fence ? is there a fence ? is there a fence ? is there a fence ? do you see any people ? do you see any people ? do you see atove ? can you see the floor ? do you see a window ? are there curations on the window ? are there curations on the window ? does it that a freezer on it? how nay mean are there ? how old other plook ? it sh 30 's what color are the walls ? it can 't tell how old are the men ? i can ' does it have plook? are there curst be plate ? know are there wang aprons ? are there any utensils ?	no no no standing white windows metal floor brown tile yes no short window yes short window yes short window yes short window yes idow ? yep kind of nope ca n't tell ard to tell , but i 'd say in their 's a black and white photo so i t see their faces , i do n't s e their faces , i do n't a few are i see part of a person 's hand black and white no silver spoon beige spoon beige spoon see a fork and a knife	is there a fence ? is it sumny ou ? what color are the appliances ? is there a window ? is there a sink ? can you see a refigerator ? are there any people ? is it daytime ? is there a window ? can you see the floor ? do you see a stove ? can you see the floor ? do you see a stove ? can you see the floor ? do you see a stove ? can you see any windows ? do you see any windows ? are they waring glasses ? are they waring glasses ? are they waring glasses ? are they senting ? are they maining ? are they main do rouside ? what gender are the people doing ? 1 is looking at at the camera can you tell if they are male or female ? can you tell if they are male or female ? wor any you tell if they are male or female ? and you tell if they are male or female ? can you tell if they are male or female ? can you tell if they are male or female ? they wan you tell they are they wan you tell they are they wan you tell if they ar	just a b can not tell what kind of f fairly partially in the backgr maybe 1 in the backgr can 't see their i tooks like th i can 't see their i can 't see their face, i i can 't see their 'tan 'tan 'tan 'tan 'tan 'tan 'tan 'tan
kitchen is UNK with dark v	mointains in the background ? no is there show on the ground ? no any trees ? yes rassy field what color are the kitchen walls ? white is there a window present ? yes are there jetures paintings hanging up ? no is the stove visible ? black and silver are there any people visible ? no what color is the nearly staticrase ? dark the static static staticrase ? and the is the static staticrase ? and the is the staticrase carpeted ? no are the handrails of the staticrase visible ? wood cabinets and a nearby staticrase how big is the kitchen ? and in the staticrase what is the age range ? teens to 40s is the kitchen belong in a house or a restaurant ? restaurant ? what are they doing in the kitchen ? cooking and mixing food what is the kitchen ? cooking and mixing food is there are they doing in the kitchen ? no is the kitchen look clean ? no does the mescent to be UNK ? they seem UNK wooking in a kitchen is in the aitcheat ? what kit of sauces are there in the back ? is the drink in the cup soda what is the food on ? bread and vegetable is it in a aitchen is an aking the questions here ? yes you are what is the food on ? bread, and yegetable s, chicken and drink are they on a table ? wook kido is sight	is there a fence ? is there a fence ? is there a fence ? is there a fence ? is this in color ? do you see a stove ? are there any people ? do you see a stove ? can you see the floor ? can you see the floor ? can you see the floor ? is it tiled ? do you see a window ? are there curtains on the wir can you see the florge ? does it have a freezer on i? how old out set the fridge ? does it have a freezer on i? how old out reture new ? is an it cell how old are the men ? ic an ? how old ou they look ? is the floor ? are there any utensils ?	no no standing white windows metal floor brown tile yes no short window yes yes yey kind of nope ca n' tell and to tell , but i'd say in their 's a black and white photo so i t see their faces , i do n't t see their faces , i do n't i see their faces , i do n't no i sa n't see their faces , i do n't si see ar tot a few ar no no si lere spoon bige spoon i see a fork yes a fork and a knife O that i can see	is there a fence ? is it sumy out ? what color are the appliances ? is there a window ? is there a kink ? can you see a refigerator ? are there any people ? is it daytime ? is there a window ? can you see the floor ? do you see the thoor ? do you see the thoor ? do you see a stove ? can you see the floor ? do you see any windows ? are they waring hats ? are they waring hats ? are they waring hats ? are they smilling ? are they similing ? are they mark are the people of a the picture ? are they mark are the people ? what are the people of a sindowing at the comera can you tell if the parson is male or female ? can you tell if they are male or female ?	just a b can not tell what kind of f fairly partially in the backgr maybe 1 in the backgr can 't see their i tooks like th i can 't see their i can 't see their face, i i can 't see their 'tan 'tan 'tan 'tan 'tan 'tan 'tan 'tan

Table 4: Selected examples of dialog on v1.0 VisDial test split for different RL variants. We observe that variant involving Diverse-Q-BOT generates more diverse, image relevant and fluent dialog.