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Raivis Skadiņš

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Development of a virtual assistant

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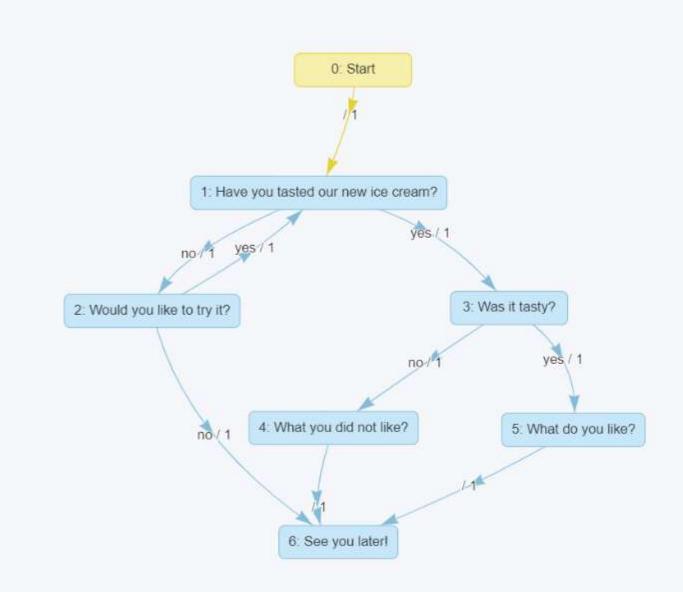
Dialog scenarios

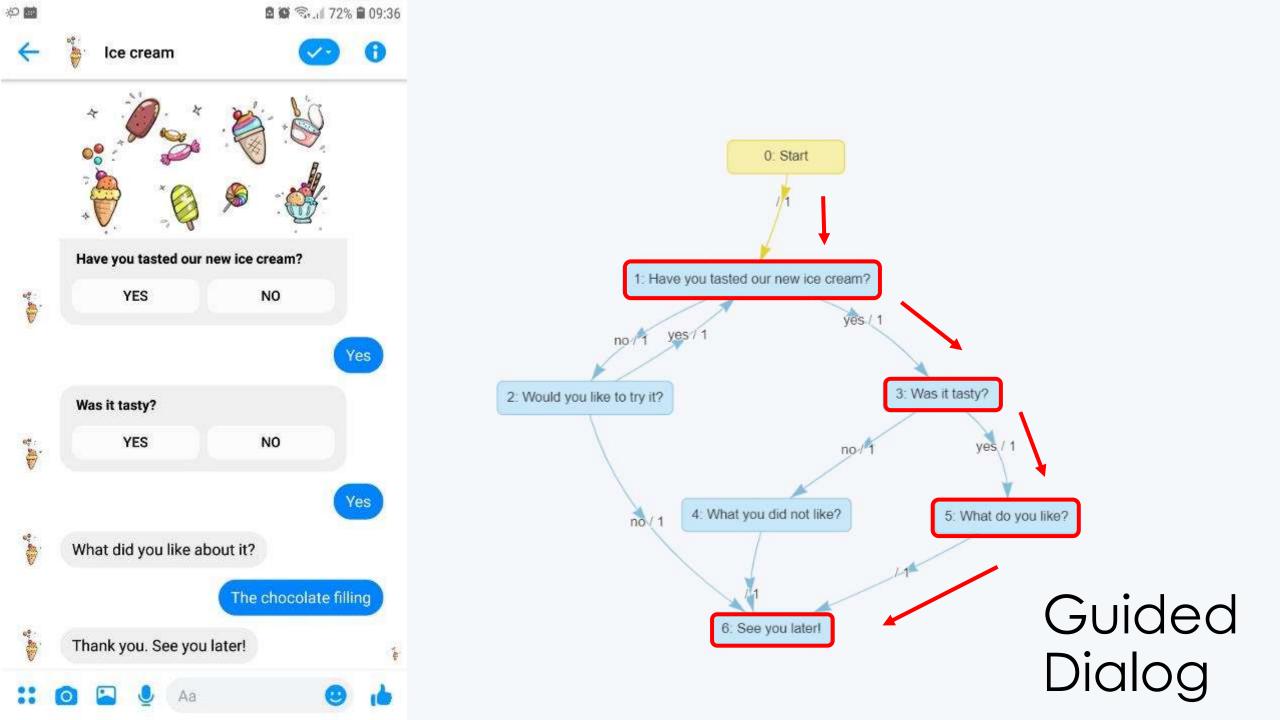
- Bots Talk by Scenario
- As in a shop
 - Good afternoon
 - Do you have a discount card?

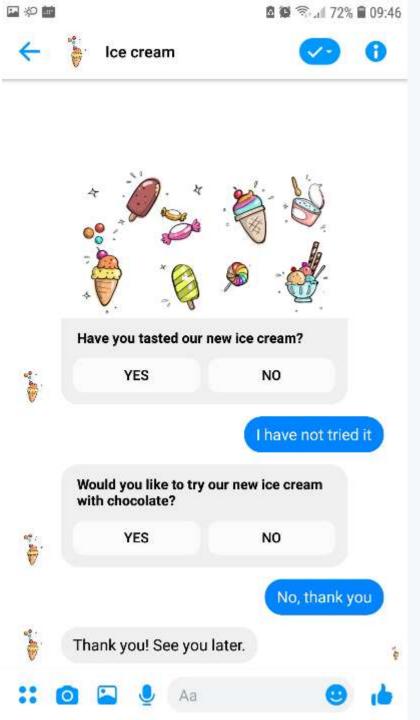
- Would you like to purchase our special offer today?
- Do you need a bag?
- Bye!

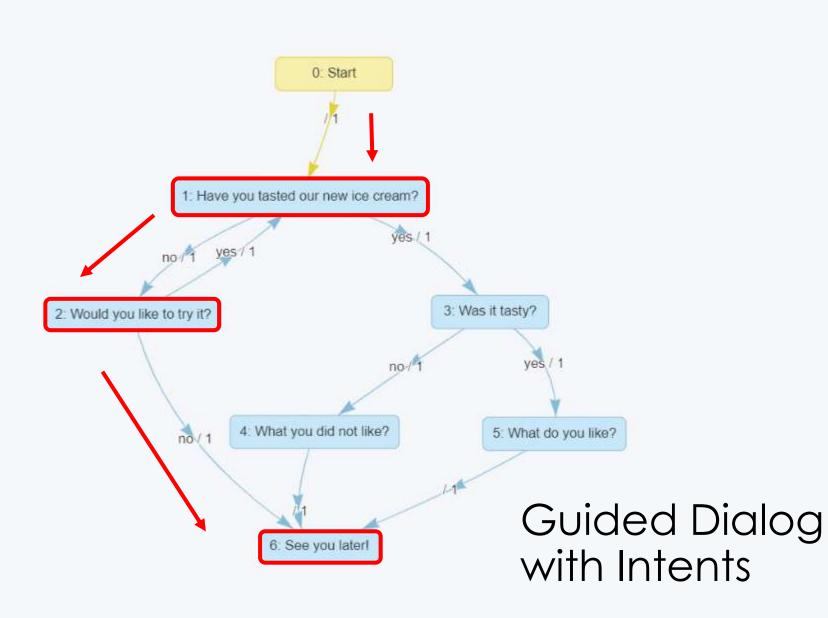
Guided Dialog

- Basic elements of the dialog scenario
 - states
 - transitions









Intents

• Bot determines the intent of each user input

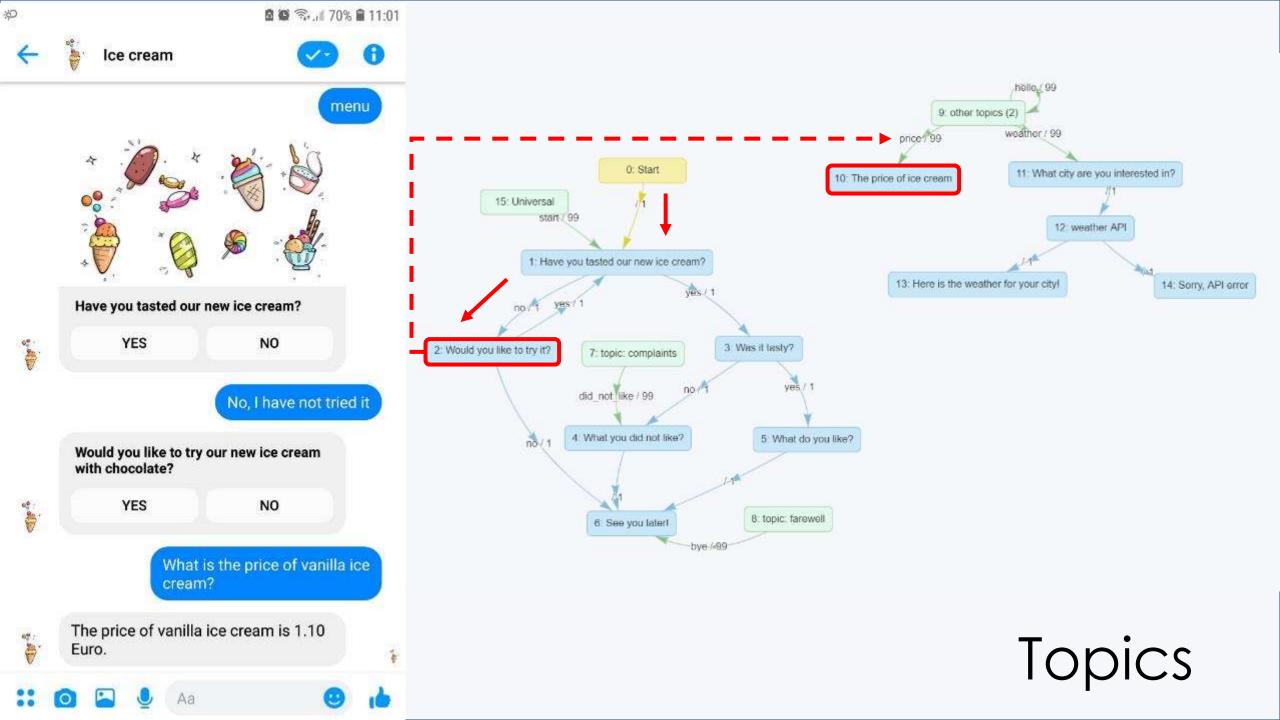
• Intents might be very different

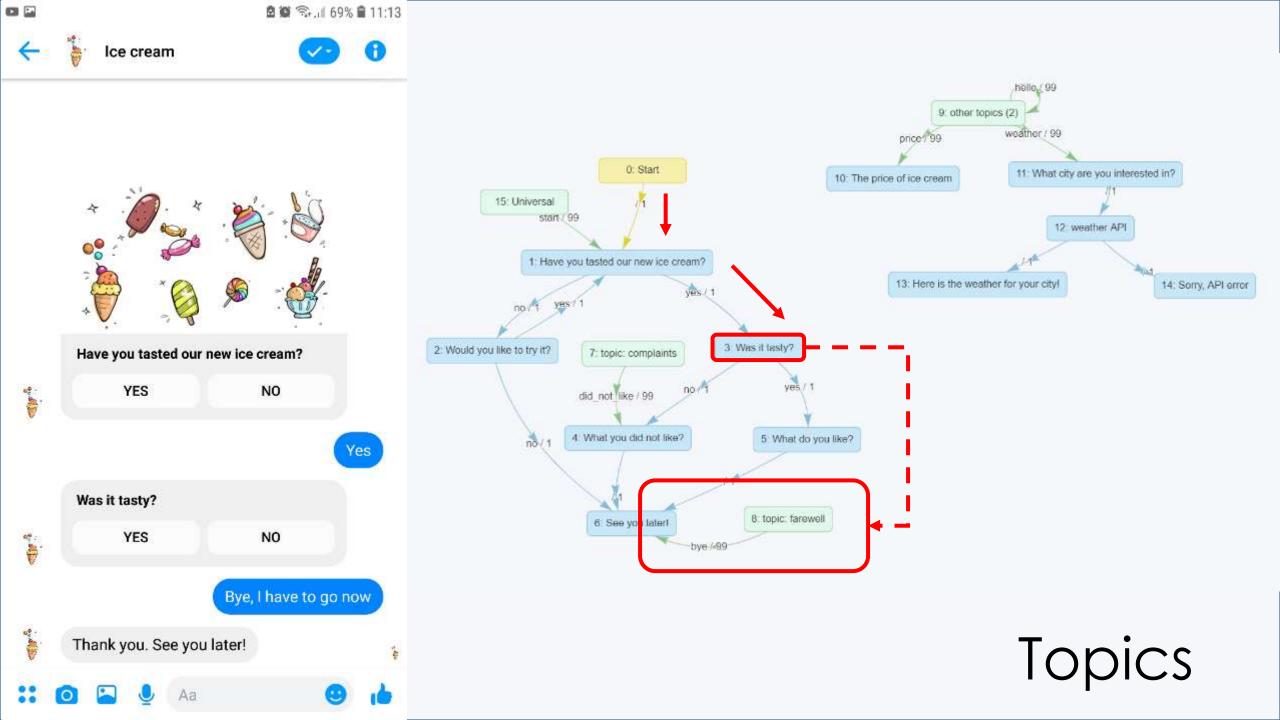
- Greetings
- Confirmation/denial
- Commands
- Questions
- Information
- Farewell
- Thanking etc.
- User can express the intent in very different ways

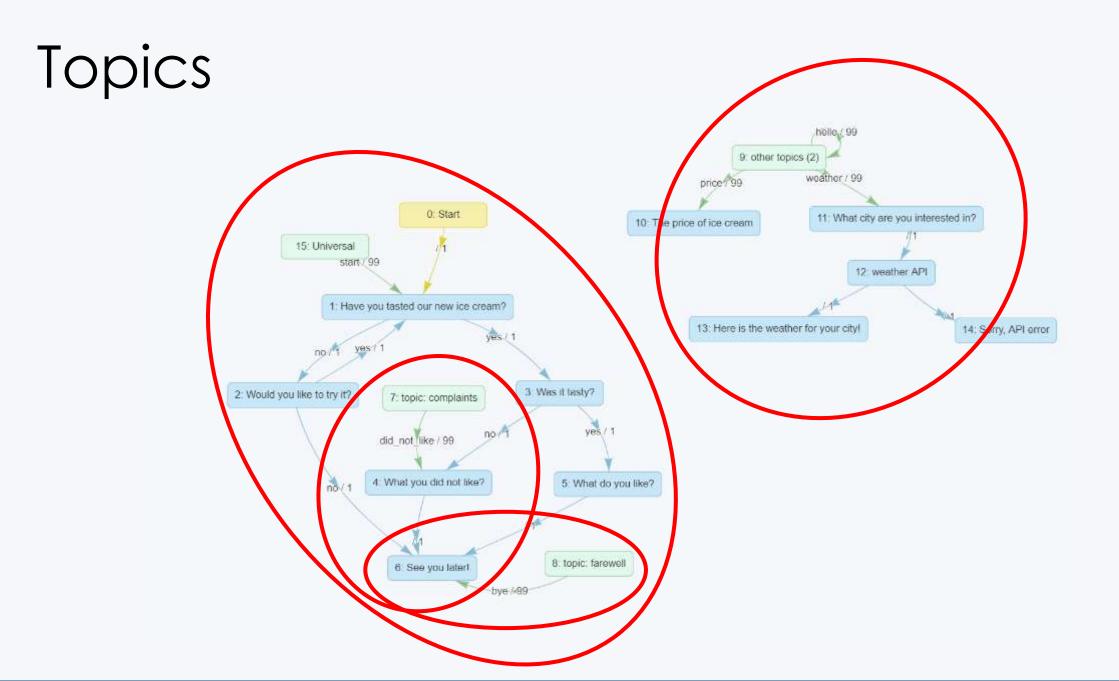
Topics

• You can move to a topic from any state









Activities

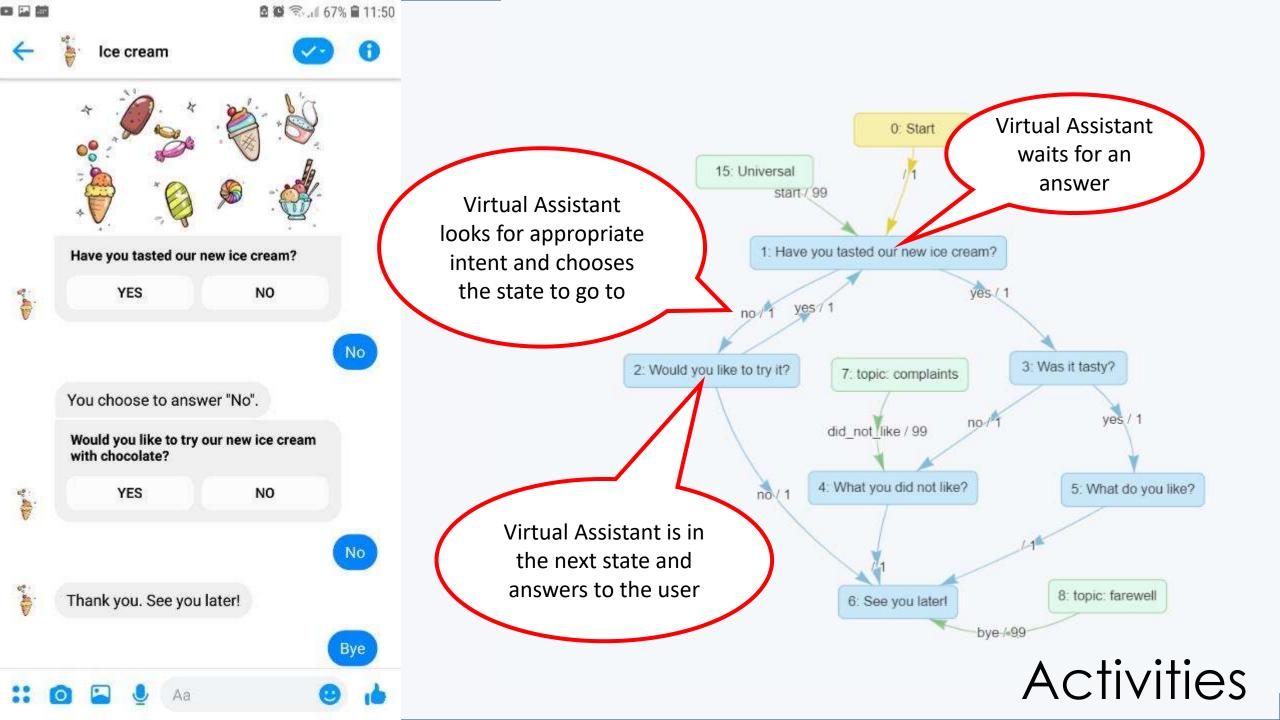
• provide a response to the user

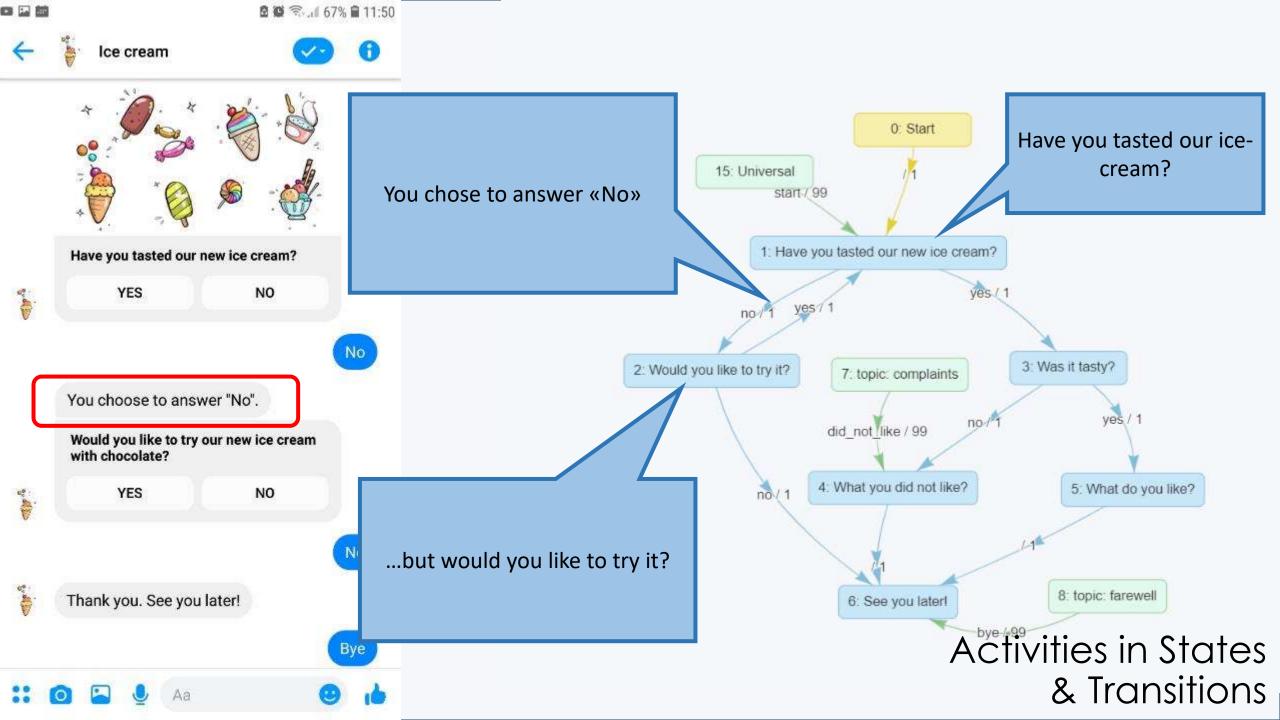
- ask an additional question
- call an external function

Activities

when the conversation gets into a state, the bot:

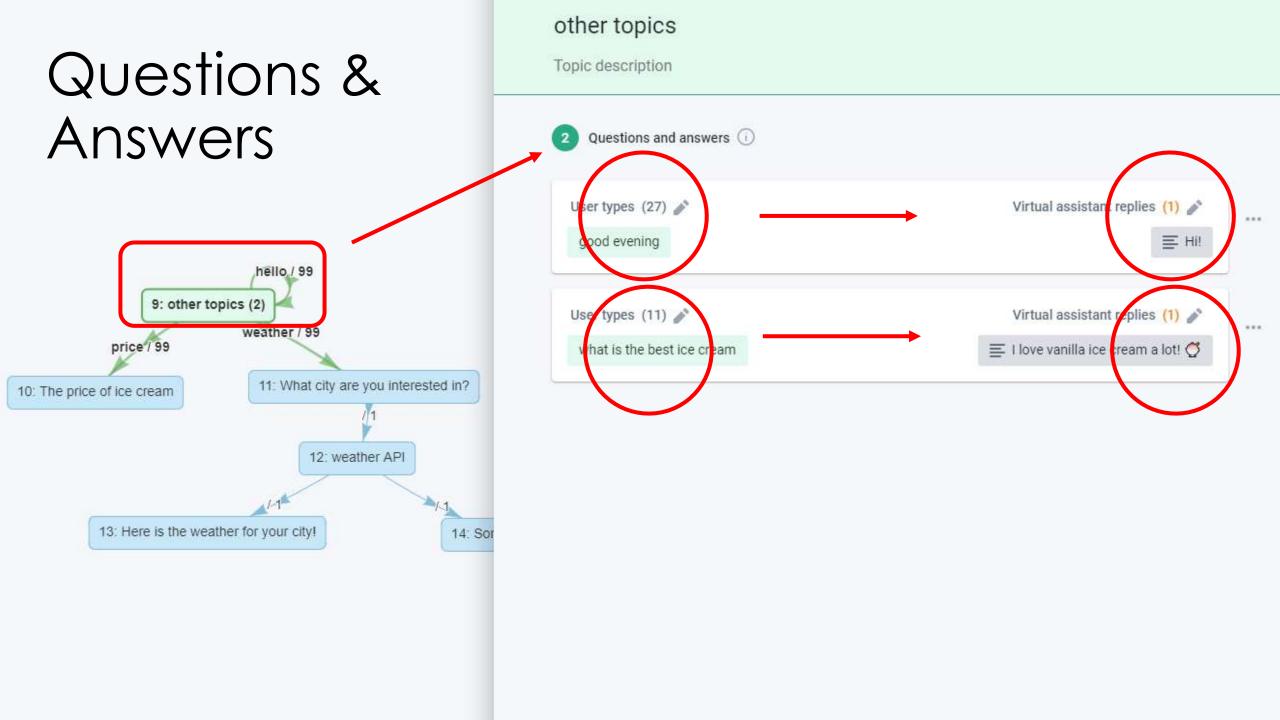
- perform an action,
- allows or requests the user to enter something,
- detects the intent of the user's input,
- goes to another state, depending on the intent.





Entities

- Entity is a designation of any particular or abstract object that can be recognized in user messages
- Names, addresses, numbers, telephone numbers, e-mail addresses, addresses, times, dates, cities, postal codes, URLs, miscellaneous codes, etc.



Data tables

• Bot's knowledge

∧ price 5 entries		≙ ∕
Parameter	Value	
Häagen-Dazs	3.70 Euro	i /
Pols	1.70 Euro	a a
Landliebe	2.35 Euro	i /
chocolate	1.50 Euro	i /
vanilla	1.10 Euro	â 🖉
Add parameter		

Training Data Preparation

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Outputs or Answers

- Understandable
- Targeted
- Short
- With a full thought
- Grammatically correct
- Appropriate to the bot's personality
- If necessary, links to additional information

Training data

- User may ask the same thing in very different ways
- We need to provide as much examples as we can

- The examples must be **really** different
- The more, the better.
 5 examples are the minimum, but we recommend at least 10

Example

- Intent: address
- What's your address?
- Where do I find your office?
- Which street are you located on?
- Where are you?
- Tell me where to go!
- I'll need your address.
- Are you in Madrid?

• Will you say the address?

- What's your legal address?
- Where do I have to go?

- How do I get to you?
- Say, please, where to find you
- Do you have an address, too?
- I already have your home page, I'm interested in the real address

Integration with external systems

- Opportunity to acquire additional knowledge
- Ability to perform actions on external systems

- Examples
 - e-Commerce system
 - Open Data Portals
 - Weather forecast etc.
- REST JSON Web Services

Virtual Assistant Management Site

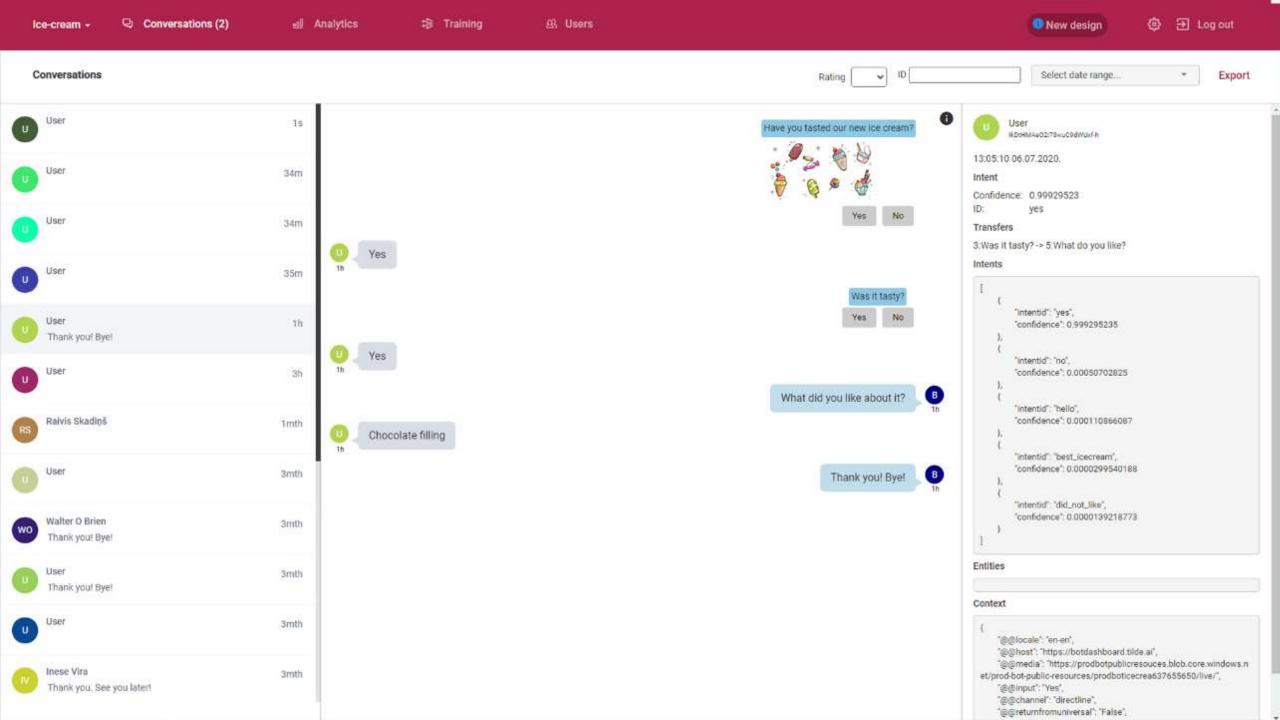
https://tilde.ai

tilde.ai beta

Welcome to your VA management site

Enter

R	User name
۵	Password



Analytics

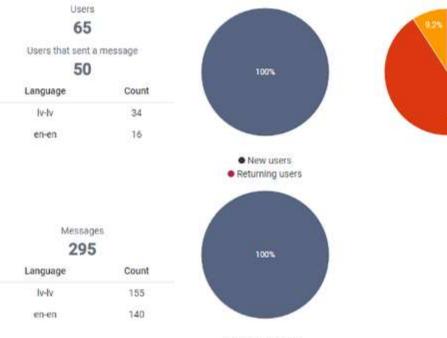
Analytics

A Users

IS Training

🚯 🔁 Log out

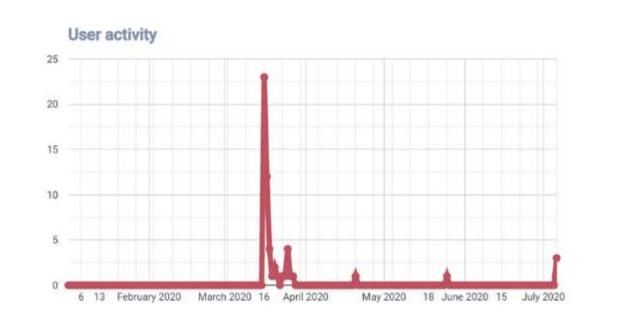
Jan 1, 2020 - Jul 6, 2020 *



 Autoresponded Manual response

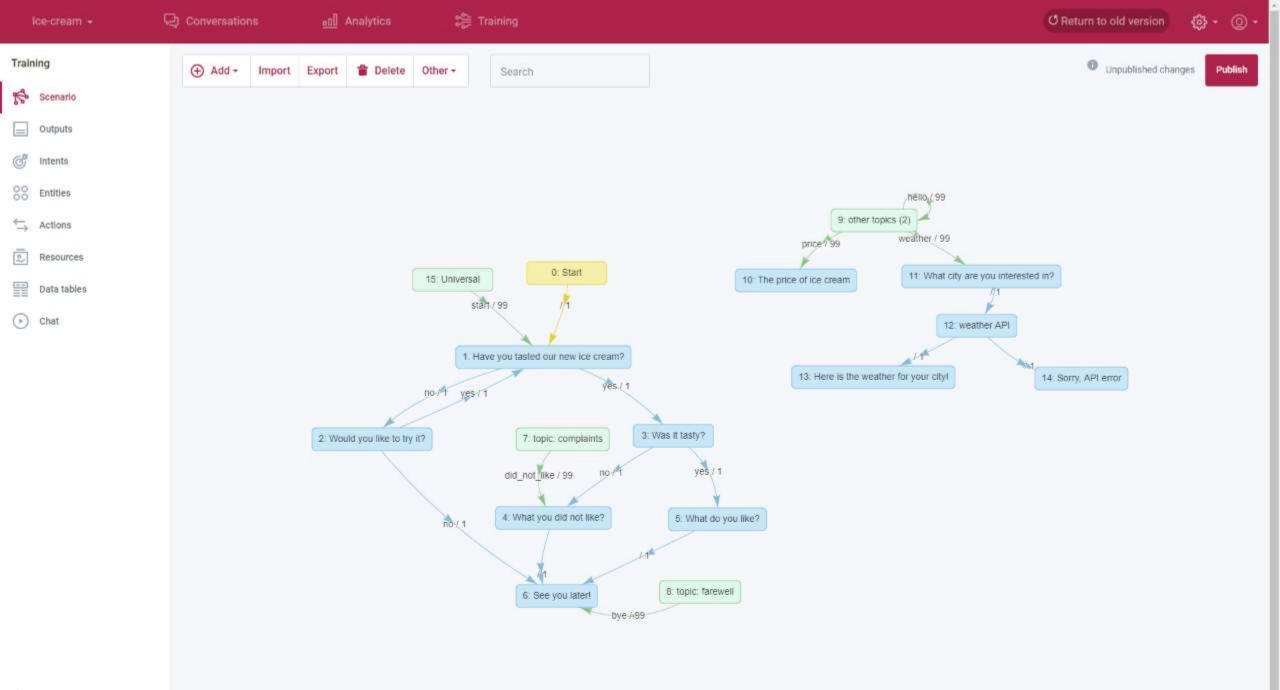
Most used intents

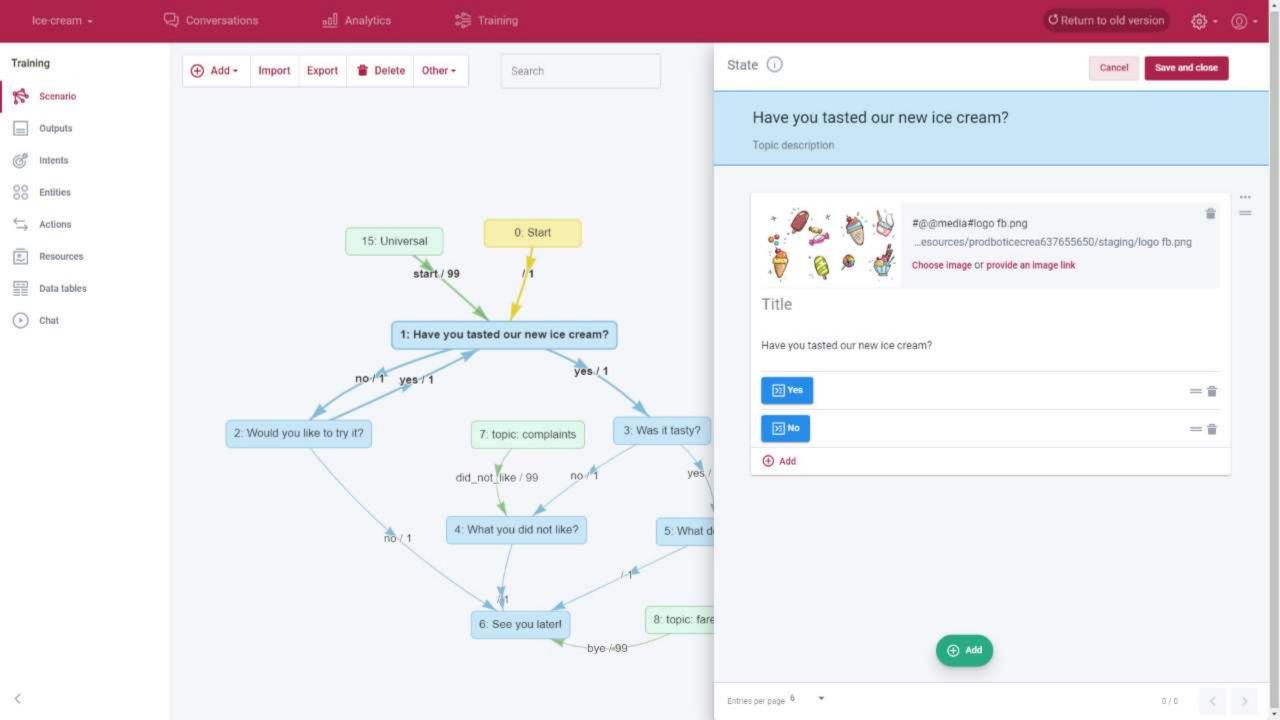
ID	Sample	Hits	en-en	
price	How much is the price	32	32	
yes	yes	21	21	
start	begin	15	15	
hello	good evening	33	13	
no	no	12	12	
veather	will it be snowing today	8	8	
oye	bye	7	7	
best_icecream	what is the best ice cream	3	3	
did not like	Ldid not liked	15	1	

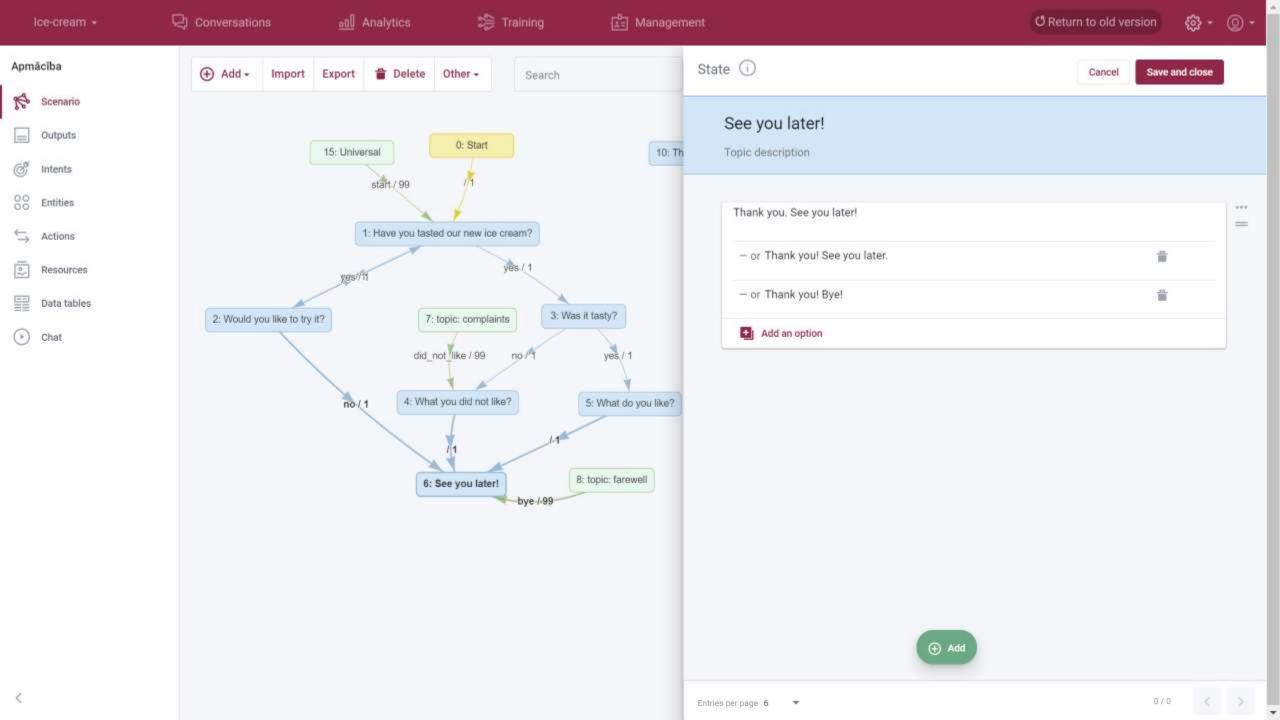


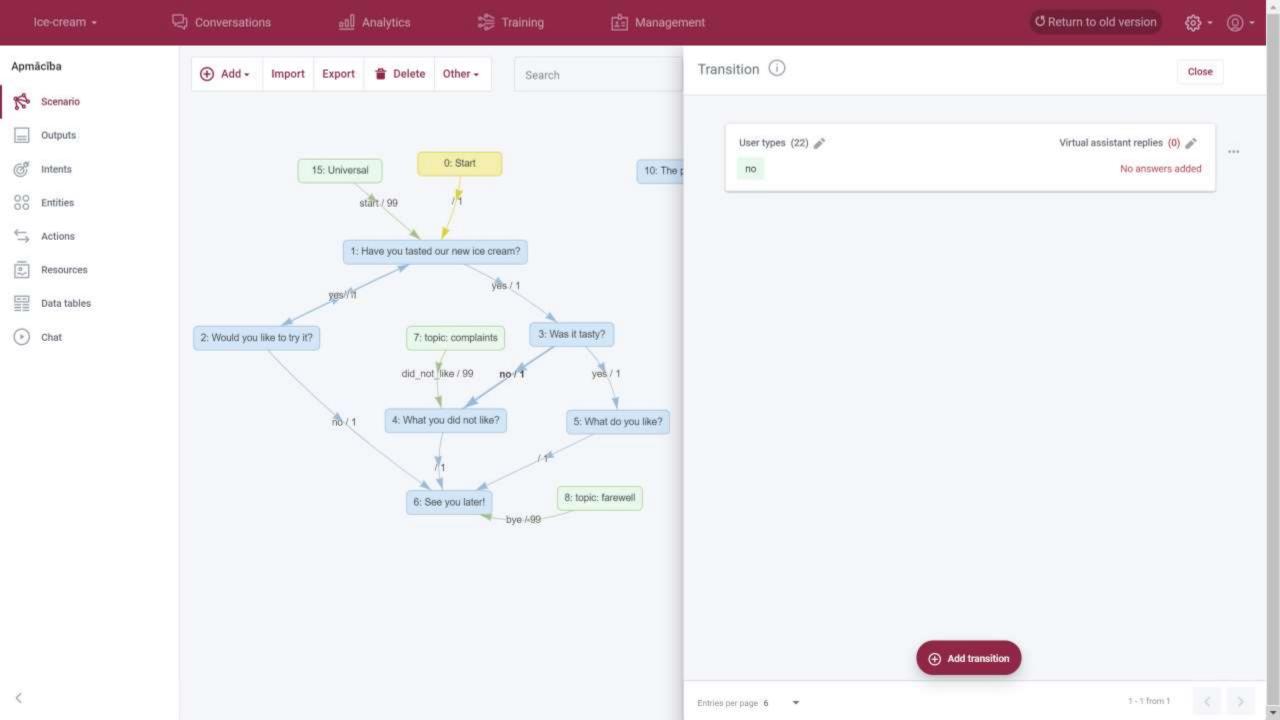
Most used states

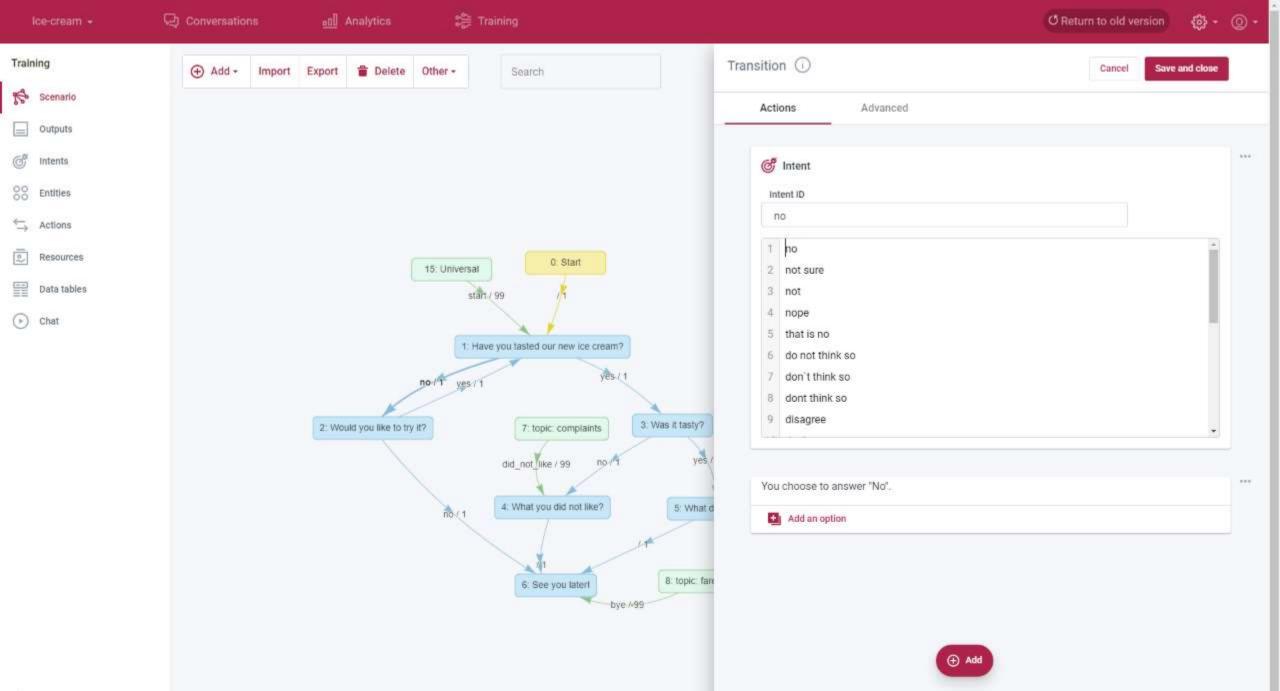
ID	Title	Hits	en-en
1	Have you tasted our new ice cream?	30	30
10	The price of ice cream	21	21
6	See you later!	20	20
9	other topics	15	15
3	Was it tasty?	12	12
11	What city are you interested in?	8	8
5	What do you like?	8	8
2	Would you like to try it?	7	7
12	weather API	7	7

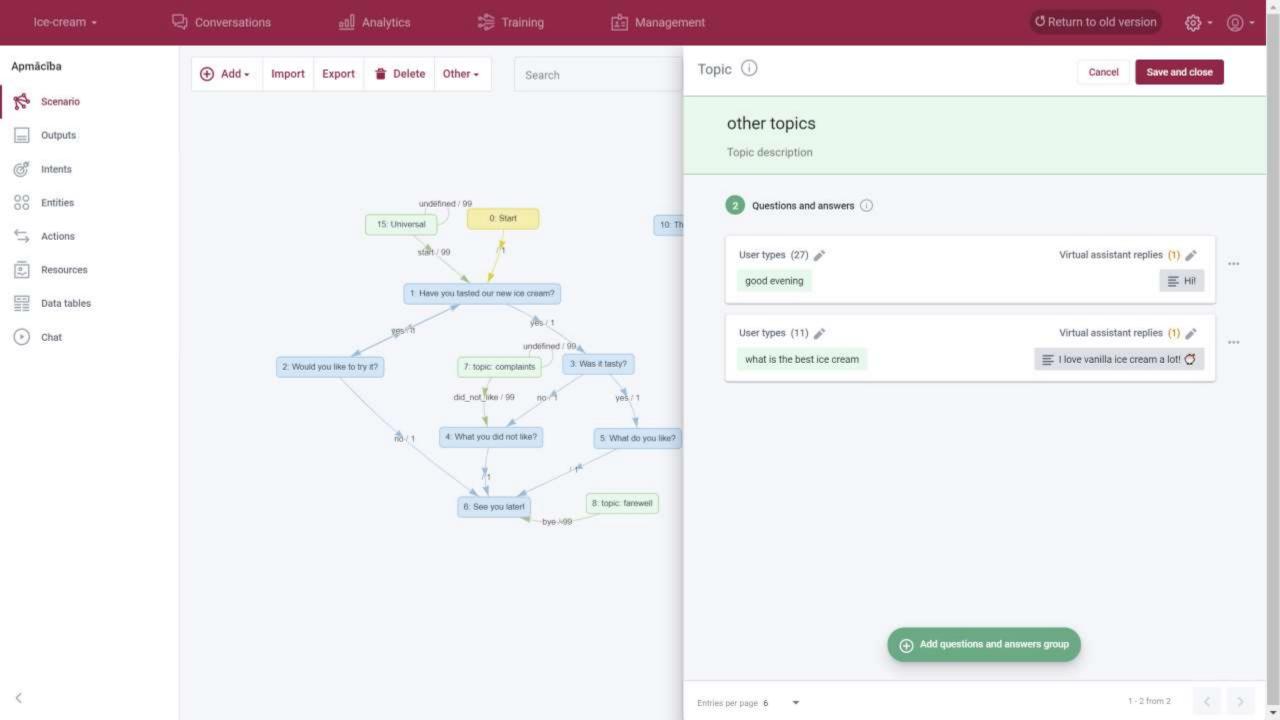


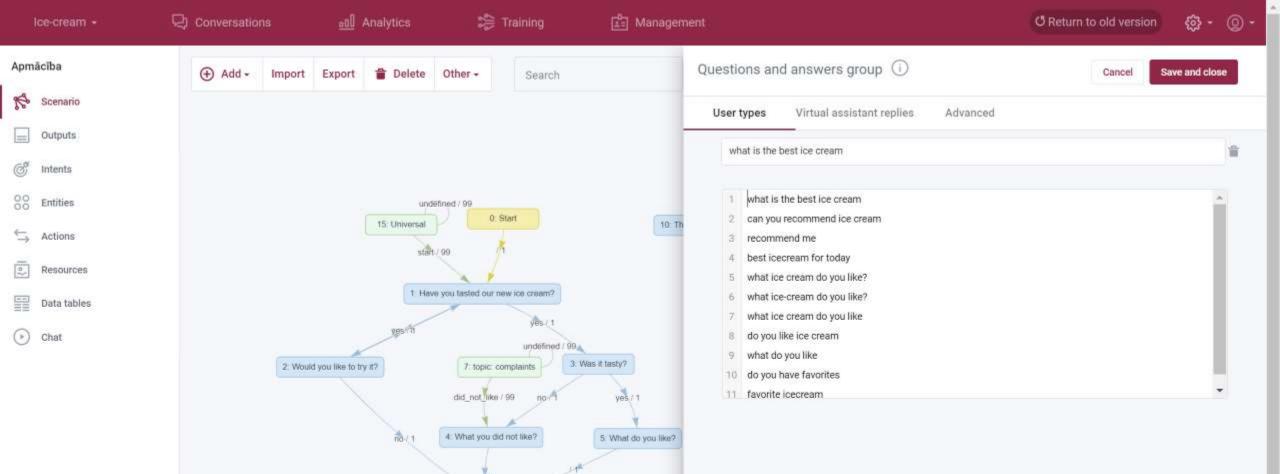










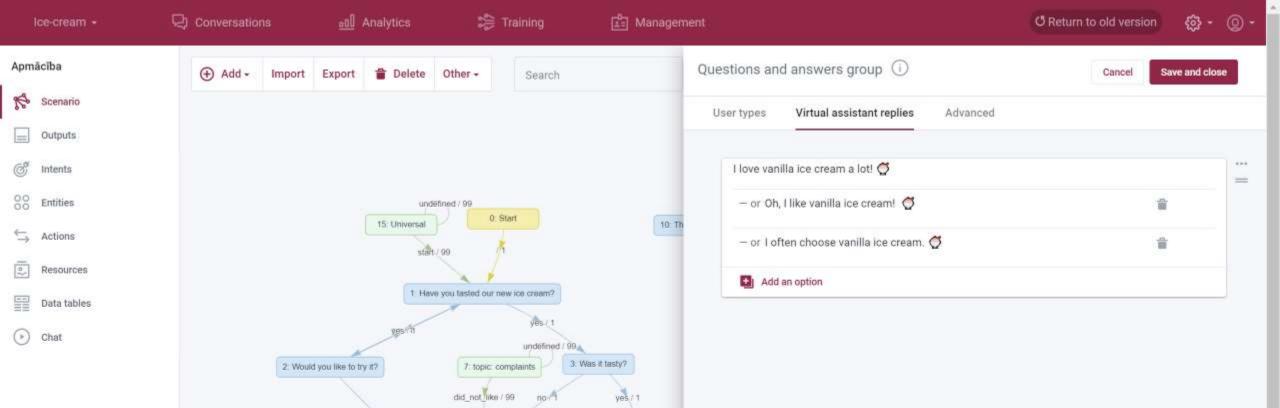


8 topic farewell

1

6: See you later!

-bye--99-



5: What do you like?

8 topic farewell

no/1

4: What you did not like?

4 1

8: See you later!

-bye--99-

Training

🎓 Scenario

Outputs

Intents

60 Entitles

← Actions

Resources

Data tables

(Chat

20

Outputs

Virtual assistant response messages to a user displayed as text messages, buttons, pictures, or links.

⊕ Add Import - Export -	Search Q		
ID	Value		
best_icecream	I love vanilla ice cream a lot! 🧔	Ê	1
	Oh, I like vanilla ice cream! 🧭		
	l often choose vanilla ice cream. 🥂		
bye	Thank you. See you latert	a	1
	Thank you! See you later.		
	Thank you! Bye!		
did_not_like	What did not like?	10	ø
error_api	Well I am not in a mood to talk about that.		ø
	I am not in a mood to talk about that!		
have_you_tasted	Have you tasted our new ice cream?	the second secon	1ª
hello	ня	自	de .
	Hello		
	Hitheret		
liked	What did you like about it?	Ê	ø
Entries per page 500 👻		1 - 17 from 17	2

lce-cream -	Conversations	all Analytics	🈂 Training		(OR	eturn to old version	∯ • ©	
Training	Intents							
Scenario	User questions and oth	ner utterances,						
Outputs	English							
💣 Intents	0.00							
00 Entitles	Add Import	t • Export • Set	arch Q					
$\stackrel{\longleftarrow}{\to} \ \ \text{Actions}$	ID		Value	Used	Sample count			
Resources	10		value	Used	sample count			
Data tables	best_loecream		what is the best ice cream can you recommend ice cream	1 reizi	11 pieměri	a		
(Chat			recommend me					
			More (11)					
	bye		bye	1 reizi	17 pleměri	音	1	
			see you later					
			goodbye					
			More (17)					
	did_not_like		i did not liked	1 reizi	5 plemēri	1	e.	
			do not like					
			nope i do not liked it					
			More (5)					
	hello		good evening	1 reizi	27 plemēri	a	1	
			good morning					
			hi					
	Entries per page 500	•				1 - 9 from 9	< >	
								2

Ice-cream 🔸	Conversations	<u>en]</u> Analy	tics	🈂 Training
Training	Entities			
😤 Scenario	All types of objects of	determined as text (units that must	be recognized fro
Outputs	English			
Intents				
00 Entitles	⊕ Add Impe	ort Export	Search	م
$\stackrel{\longleftarrow}{\rightarrow}$ Actions				12
Resources	ID			Value
Data tables	products			vanilla (1) chocolate (4)
Chat				Landliebe (0)

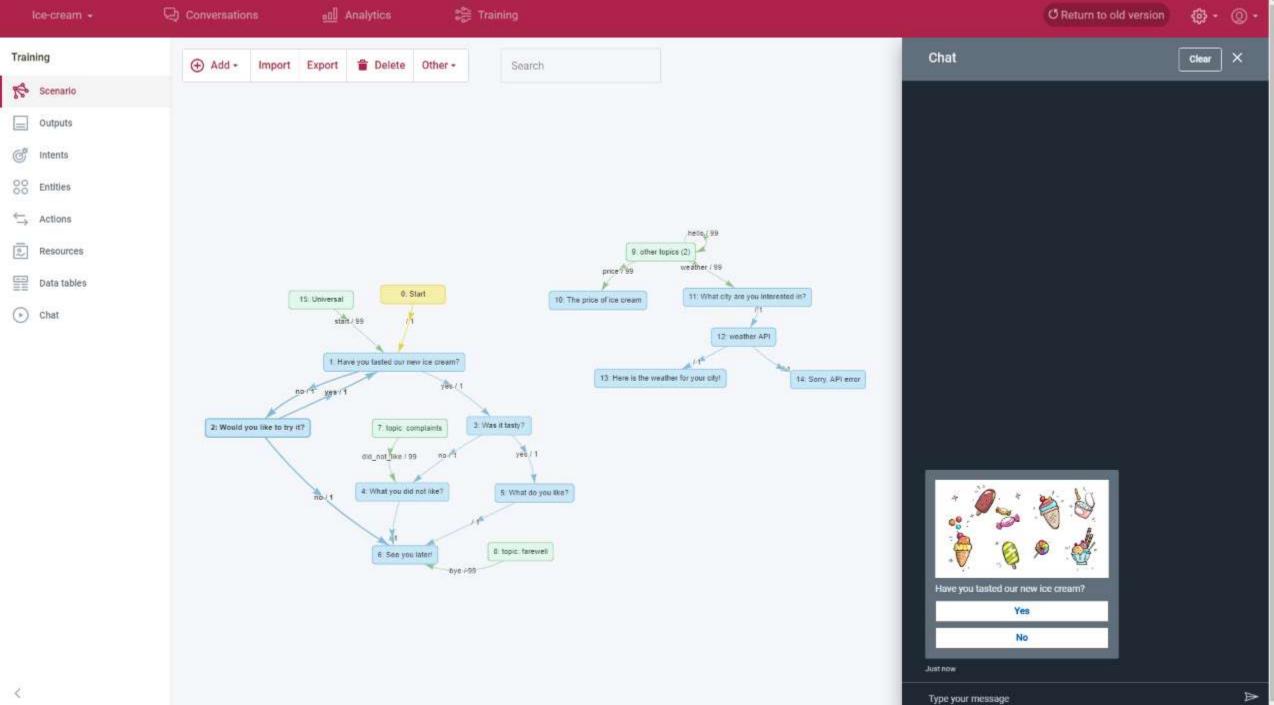
Entities All types of objects determined as te	xt units that must be recognized from user input.		
English			
Add Import Export	Search Q		
ID	Value		
products	vanilla (1) chocolate (4) Landliebe (0) Pols (0) Häagen-Dazs (3) Less (2)		
Entries per page 500 🗢		1 - 1 from 1	< >

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Ice-cream +	Conversations	all Analytics	😂 Training				O Return to old ver	rsion 🤤	}• @•
Training	Actions				Edit function 🕕		Cancel	Save and cl	ose
😤 Scenario	Definitions of connect	ing external resources							
Outputs					Function ID				
Intents	Add function	Import Export	Search C	2	get_weather_city Connection of external service	15.			
00 Entitles					Function type	URL			
Actions	ID		Value		GET 👻	http://apl.openweathermap.org/	data/2.5/weather		
Resources	get_weather_city		http://api.openwe	athermap.org/data/2.5/weather					
Data tables					ID	Value	Description		
Chat					q	Rīga	pilsēta	8	8
					appid	f045da90e98220a569b46f554f8	appid	A	8
					units	metric	units	۵	2
					lang	en	language	۵	a
					Add new entry				
					JSON -				
					ID	Value	Description		
					status	StatusCode	status code		-
	Entries per page 500	•			weather_descr	S.weather[0].description	Description		-
					weather_temp	S.main.temp	Description		-
					weather_humidity	S.main.humidity	Description		-
<					weather_windspeed	S.wind.speed	Description		-

lce-cream +	Conversations all Analytics	😂 Training	O Return to old version
Training	Resources		
😚 Scenario	Images, audio files, and video files used in virtual	assistant actions.	
Outputs	Upload Download 🍟 Delete		00 🚍
@ Intents	opidad Downidad B Delete		88 🚍
00 Entitles			
← Actions			
Resources			
Data tables	1 Sec. 1		
Chat	Ice cream_512.png 3/16/2020 165.09 KB	logo fb.png 3/18/2020 78.42 KB	

lce-cream -	Conversations <u>and</u> Analytic	s 😂 Training	C Return to old version	<u>ې</u>	@•
Training	Data tables				
scenario	Uniform data lists.				
Uutputs	English				
Intents	Addable Impact Emper				
00 Entitles	Add table Import Export	Search Q			
← Actions	price 5 entries				1
Resources	o price dentries			童	· .
Data tables	Parameter	Value			
(Chat	Häagen-Dazs	3.70 Euro		Ť	a'
	Pols	1.70 Euro		i	1
	Landliebe	2.35 Euro		Î	1
	chocolate	1.50 Euro		- T	ø
	vanilla	1.10 Euro		ŧ	1
	Add parameter				



How to use it

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Build and test your bot

- Log-in to Tilde.Al
- Play with the demo bot 'ESA Ice-cream'
- Create your own bot (ask me to create it)

- Implement your scenario
- Test and elaborate

