Main

Friday, 14. May 2021 14:22

https://rasa.com/showcase/multilingual-demobot/
Multilingual demobot.

- Supports multiple models and languages
- Easy to spin up (Docker) and deploy (automated CI)
- Makes it easy to build your own model (training, interactive learning, custom actions)
- Continuously updated to run on the latest Rasa stack

- Valid keele ning boti suhtlus keel ise muutub.
- Kerge on treenida uusi keeli koos custom mudelitega
- Kui su mudel töötab tavalise Rasa NLU´ga siis töötab ka siin
- Antud lahendus on saanud RASA ametliku toetuse, ning selle on viidatud õpetus video analüüsi.

Antud mudel töötab Heroku peal

Miinused:

- Running multiple web servers can be a problem when it comes to hosting. Multiple we communication via HTTP in a Heroku cluster is only allowed with pricier plans.
  (Kui me ise hostime, siis pole probleemi, kuna me nkn hostime dockeri konteinerites.)

- Another issue is the lack of support for multiple models in the current version of Rasa your bot in two languages. As it stands now, you need to spin up an additional core se model. With a little bit of an extra effort, it is perfectly possible to enable multiple mo my BotFactory if you are interested in details.

Git

Offical Video by RASA on the topic of multilingual chat bots.:

Option 1 (A LOT EASIER)

- Separate subsystems for each language

Lugemismaterjal:

- Uue keele mudeli loomisel tuleks silmas pidada NLU Andmete loomise nõuandeid.
- Rasa Blogi postitus teemal: A Multilingual DemoBot,

- Huvitav Blogi teemal: Building a multi-lingual chatbot
- Rasa Foorumi postitus teemal: How can i make multi languages?

NOTES

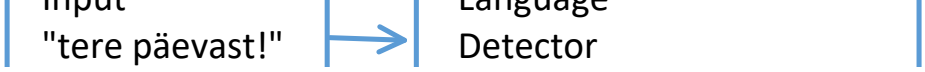
Nice question. (And this is something I'm working
The good thing about the embedding intent classif
about what language it works on. So, in theory, it
There are 2 approaches that you can use to suppo
1. make separate intents for them (e.g. hello_en, h
2. create a language detector and handle them all
If you're using default utter_ methods, method 1 m
use hello_en as intent name and utter_hello_en to ge
Method 2 makes more sense when you actually ha
generate your response (and of course, you handl
All in all, you *can* implement multi-language chatb

tes. Vaata alumist video

eb processes or

(1.6.0). Suppose you train
rver to serve your other
dels with Rasa's SDK. Check

What you want is a custom language detector that finds out w
can include the language-detector as a custom component in
make it fill a language slot. Then, you can use this slot value as
respond accordingly.



deployable on Heroku

using Rasa and Chatfuel
language rasa chatbot having at least two

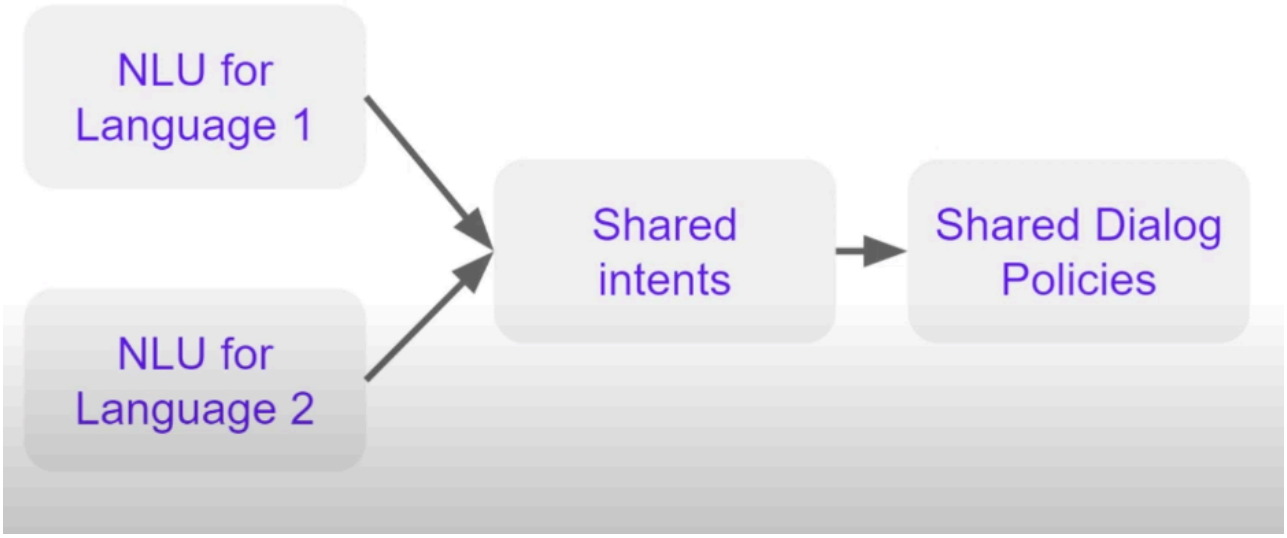
on too.)
fier is that it doesn't have any assumptions
should work with every language.
rt multi-language intents.
hello_xx, for hello spoken in 2 languages)
in custom action
nay make more sense becuase you can just
et back the response.
ave multiple variables that you want to use to
e them in custom actions).
ots in rasa!

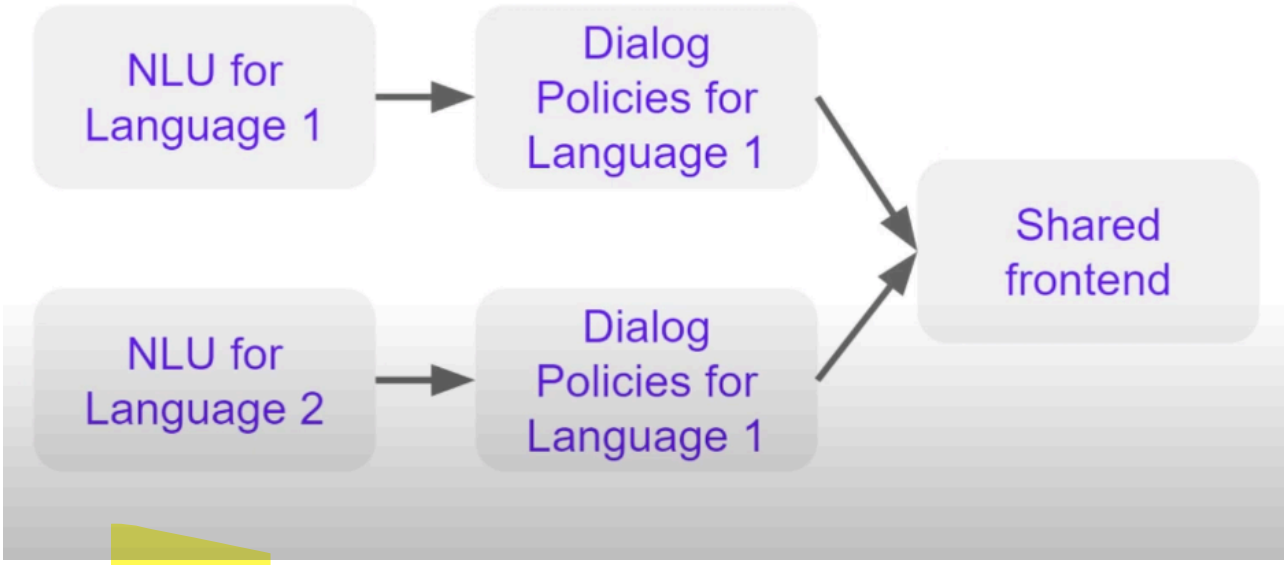
which language you're using. You
the beginning of your pipeline and
input in your custom actions and

Custom actions
Rasa action server

Hello_eng

ENG



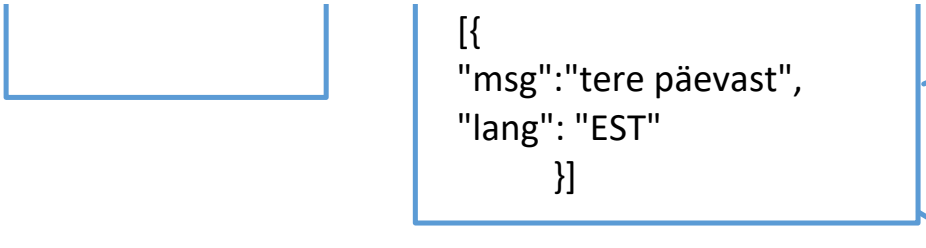


Option 2 NJOPE

- Single system that can handle input in multiple or mixed languages

Reffered to as code-switching

she is the daughter of ceo, वह यहाँ दो दिन के लिए आई है
मुझे अमेरीका में चार साल हो गए, but I still miss my country



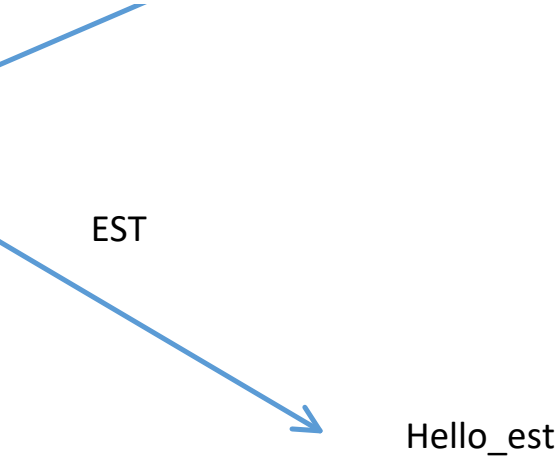
VS

Using google translate both ways (i wouldnt reccomend):

- Using it to detect the language
- Translate input into rasa model
- Translate rasa response into original lang

NB: automaatset lang detectionit dsaab kindlasti implementeerida a
Viimaseks etappiks.

Esialgu piisab nuppuga valimisest.

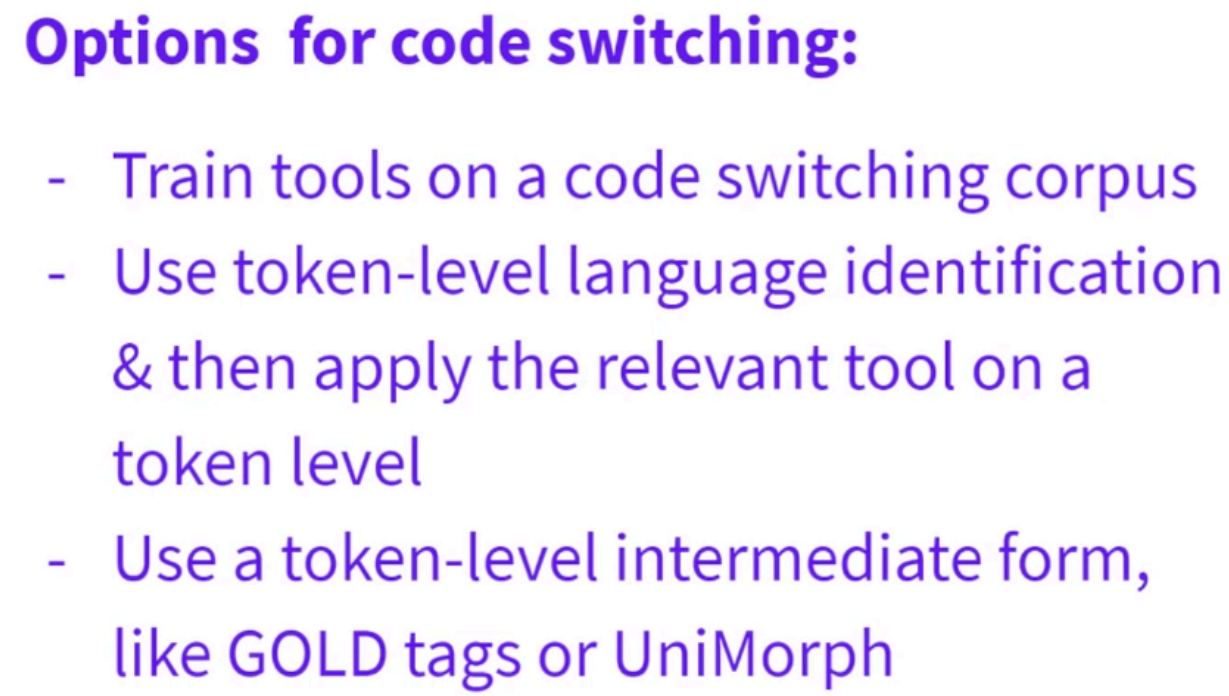


ga selle peaks jätma

मुझे मेरा current account balance जानना है भारत में popular free virtual credit card services कितनी हैं
अपने budget के अनुसार investments कर सकते हैं class और object के बीच relationship क्या है

System Needs to handle both languages at the same time

Ways to do this



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Less to build and maintain

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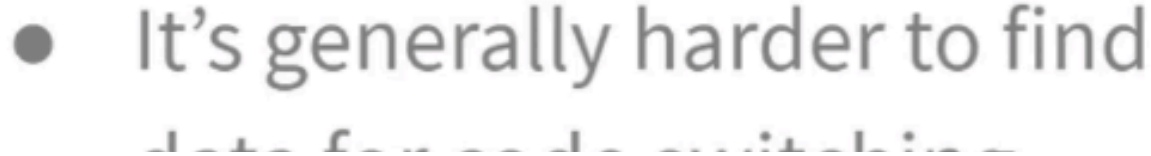
- Harder to find data, to train the bot. Compared to single language data
- Combining multiple systems can be tricky
- Special symbols such as chinese or hindy might prove difficult
- Bots have a lot of trouble differentiating closely related languages (EST VS FIN)



data for code switching between two (or more) specific languages
- Combining multiple subsystems can be tricky
- You may need to handle multiple scripts (which is not trivial)