

Bitext Sentence Simplification service to improve bot accuracy

Creating a conversational bot is a time-consuming task. It involves feeding the bot different variations of all the potential user intents. For example, you can ask your bot to turn on the lights in your living room in multiple ways:

- turn on the lights in the living room
- turn on the living room lights
- I'd like to turn on the lights in the living room?
- can you turn on the living room lights?
- please, turn on the living room lights

The bot needs to understand that all these requests are variations of the same intent and have the same meaning. This task is typically performed through significant manual tagging and different training iterations. But many times, bots fail to understand even simple user queries, and don't detect correctly the entities appearing in the query or even the intent itself.

Bitext helps any chatbot improve its results, significantly shorten needed training time and increasing bot accuracy. Bitext solves this problem by reducing different user requests to a normalized form that captures their common meaning. Then, the bot is fed these normalized forms, linked to their respective surface forms. As a result, the complexity that your bot needs to handle is reduced drastically.

Bitext normalizes the examples to improve the accuracy of any chatbot in live use:

```
{  
  
  " turn on lights in living room"  
  
}
```

This preprocessing of user requests improves vastly the accuracy of chatbots, even if very small time has been applied to its training. It also makes continuous improvement easy and controllable.

Additionally, Bitext solves other common problems in bot training, like:

- Double intent: turn on the lights in the living room and in the kitchen
- Negative intent: don't turn on the lights in the living room