Dialogue Framework

*RSVP Flavored AIML Specifications*

*Comprehensive documentation of how to write and extend AIML files.*

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1. AIML Basics
   1. What is AIML

AIML, or Artificial Intelligence Markup Language, is and XML dialect for creating natural language software agents. In another word, it let you define the logic for a chatterbot to generate responses based on certain user inputs. AIML is used to write the world famous chatterbot ‘A.L.I.C.E.’ and also adopted in many of today’s popular chatterbots.

* 1. Elements of AIML

AIML contains several elements, which are XML nodes. The unit in which the logic of generating response to a certain input is contained inside a <category>. And inside each <category> there are two required nodes <pattern> and <template>, as well as one optional nodes <that>. They are described in further detail below.

<category>

<pattern>Hello</pattern>

<that>Hi</that>

<template>How are you</template>

</category>

When this category is loaded, the bot will respond ‘How are you’ when the received user input is ‘Hello’ and the bot’s last response was ‘Hi’.

* 1. Patterns

A pattern is a string of characters intended to match one or more user inputs. A literal pattern can be something like ‘Hello’ in the above case that only the input ‘Hello’ will be matched by this category. Standard AIML also supports wildcard matching. For example, one can use ‘\*’ to match anything. However, remember that AIML is targeting English so words are expected to be separated by spaces, which doesn’t fit Chinese well.

As a result, we extended standard AIML patterns and allows the usage of grammar patterns. To use grammar patterns, one need to solely use a <grammar> tag inside the <pattern> tag and place the grammar term that he/she is trying to match inside the tag. For example:

<category>

<pattern>

<grammar>basic.greeting</grammar>

</pattern>

<that>Hi</that>

<template>How are you</template>

</category>

* Templates