

The AIML language was created with a goal of authoring of simple chat bots. Therefore it lacks some of the features of advanced dialog systems. One of them is the support for dialog management, which is beneficial in many applications that the language has already spread into due to its popularity.

This thesis solves the problem of dialog management implementation in pure AIML by using the augmented transition networks in design and code generation. It results in a development environment that supports the chosen solution, thus facilitating the design of more complex bots, while maintaining compatibility with standard interpreters.