





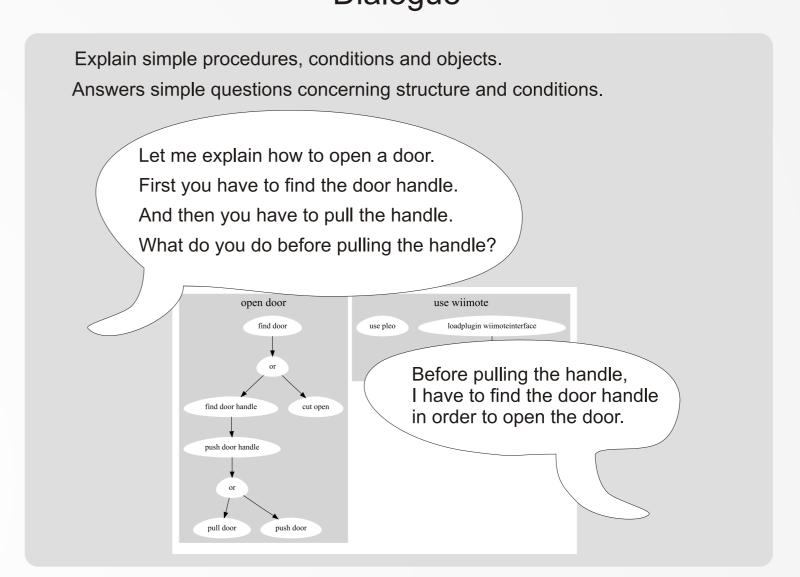
Multimodal Dialogue System for Intuitive Human Robot Interaction

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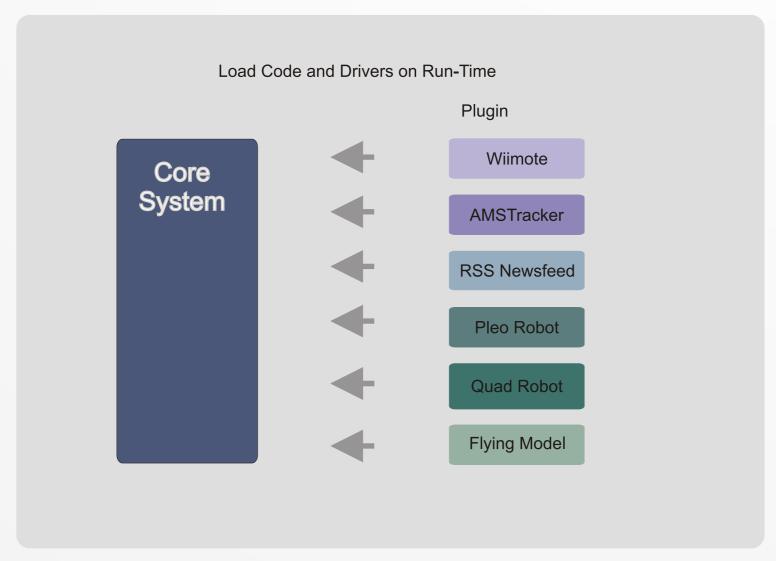
Towards a Multimodal Cognitive Dialogue

Learns Understands Answers questions to proof understanding Visualizes system belief Rudimentary transfer of gained knowledge Connects to external gesture recognizers e.g. Wiimote

Dialogue



Interface External Systems with a Plugin-Technique



Basic Features

Query Knowledge Base - for easier use, persistance and faster adaption:

Load descriptions and scripts on run-time from database.

Parses simple command scripts.

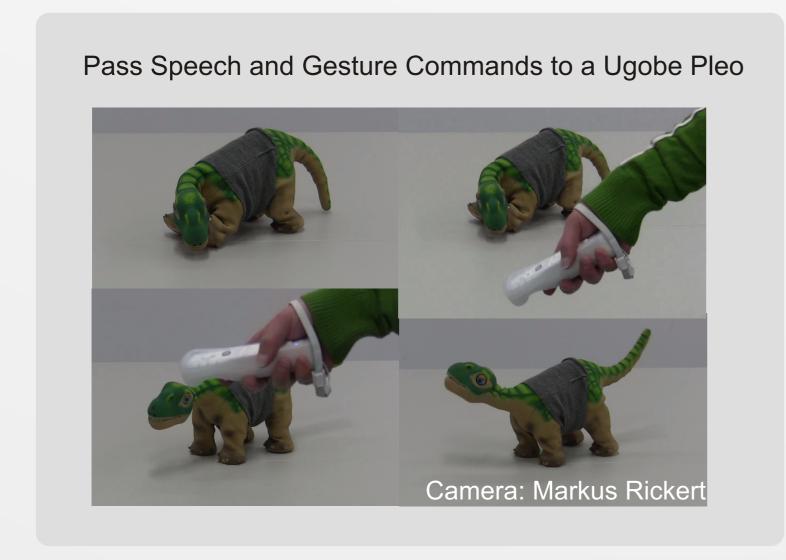
Use text and speech to control system and other networked components:

Uses natural language (or gestures,...) to interact.

Dialogue component: extensible grammar and vocabulary. Speech recognition: full dictation grammar and vocabulary.

Optional use of command language for faster and direct access.

Application Example



Application

