

CS 297 Deliverable 1

Context-Sensitive help for Multimodal Dialogue.

Helen Wright Hastie, Michael Johnston, Patrick Ehlen. ICMI '02 Proceedings of the 4th IEEE International Conference on Multimodal Interfaces. 2002.

Introduction

- ❖ Multimodal interface.
- ❖ Multimodal interface based Help system.
- ❖ MATCH (Multimodal Access To City Help).
- ❖ Help system ideas, their problems.
- ❖ MATCH Implementation.

How MATCH works

- ❖ How MATCH lets users interact.
- ❖ The majority of commands can be given by speech, by pen, or by a multimodal combination of speech and pen.
- ❖ A simple use case that leverages Multimodal interface to find a cheap Italian restaurant, or a information regarding a group of restaurants.

2. THE MATCH MULTIMODAL ARCHITECTURE



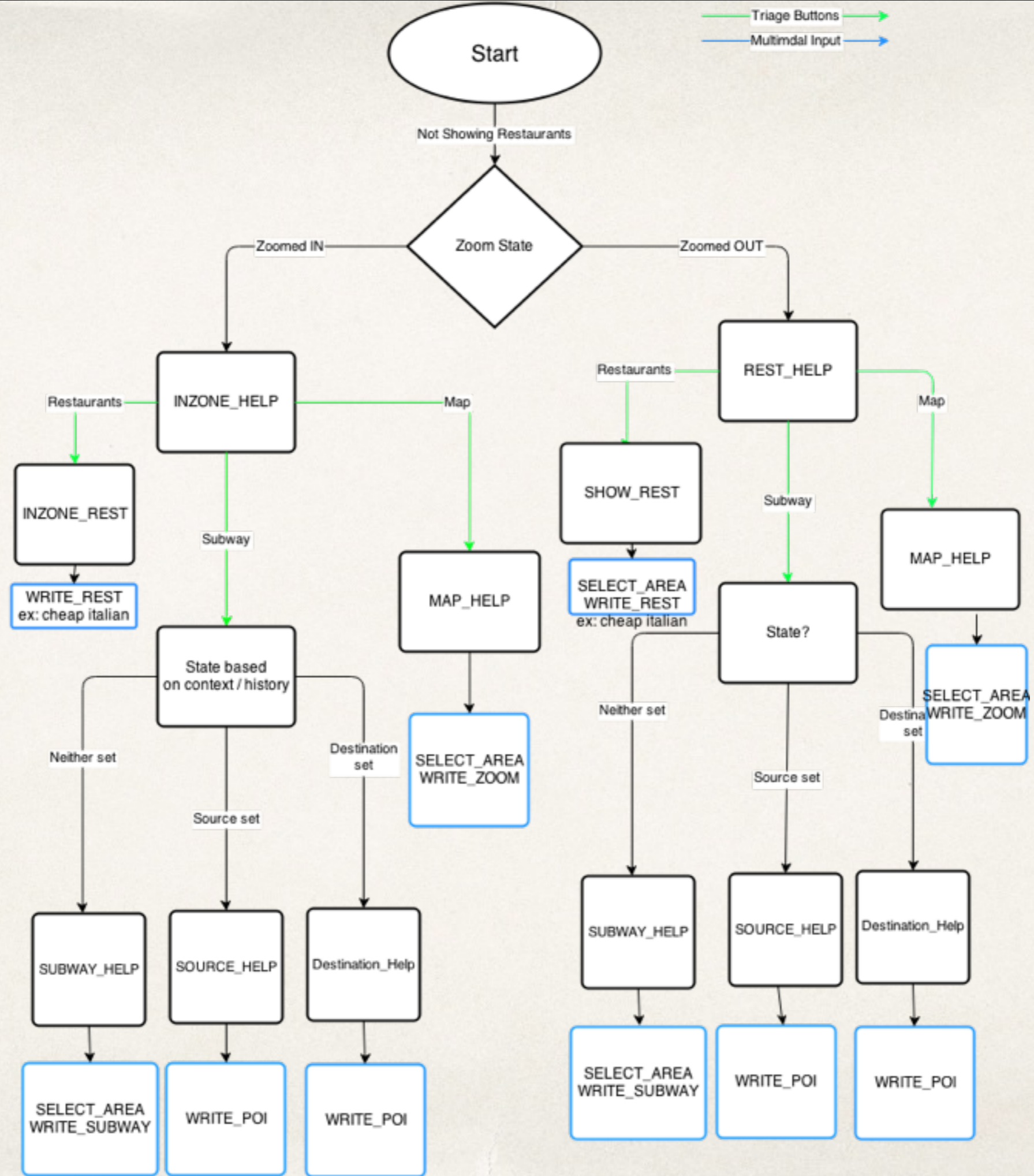
Fig. 1. MATCH running on Fujitsu PDA

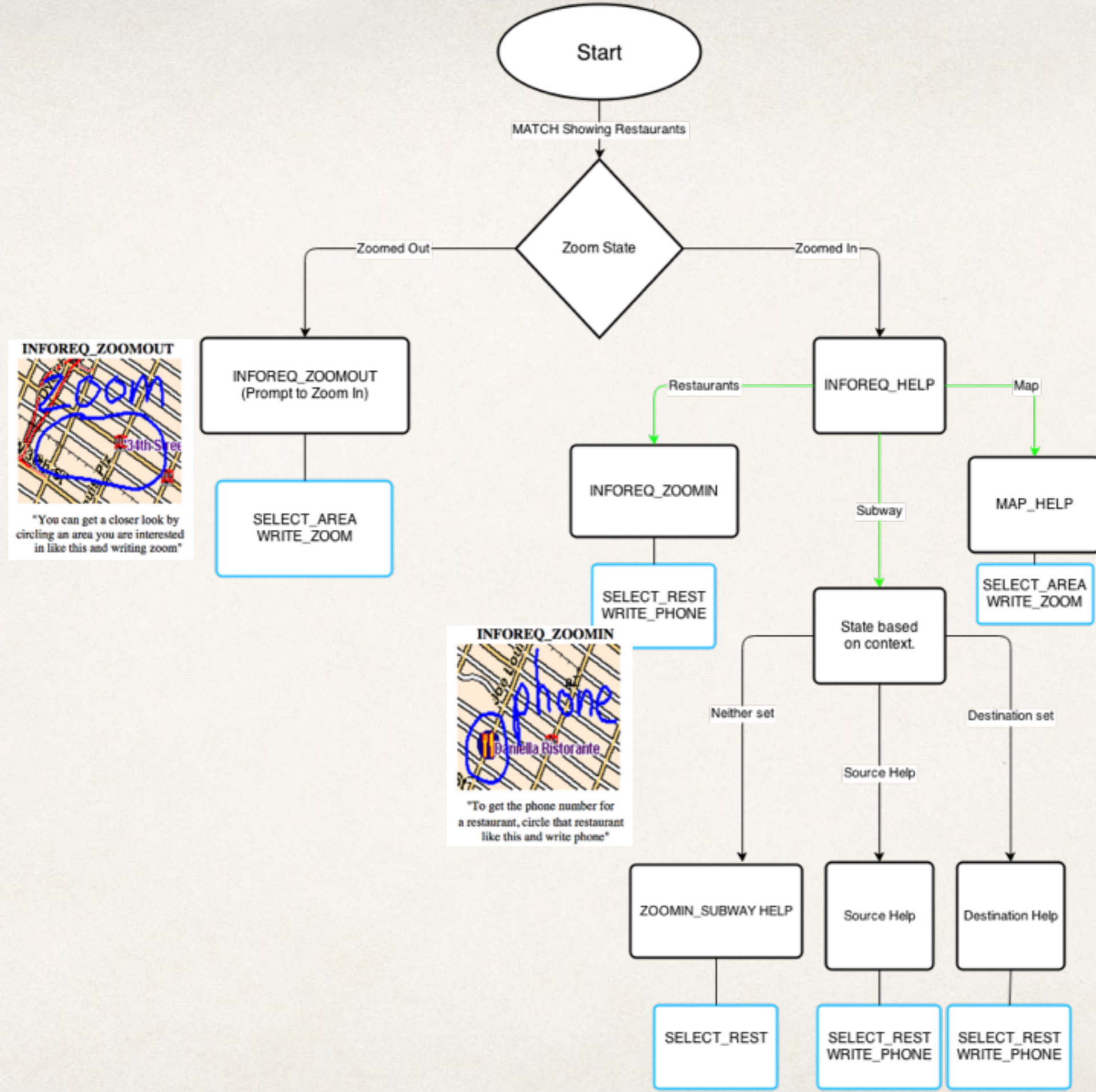


Fig. 2. Unimodal pen command

Multimodal Help Design

- ❖ Independent module in the system.
- ❖ Invoked by user only.
- ❖ Three main areas where the user may need help in this application.
- ❖ The set of system HELP DIALOGUE MOVES is divided into queries and exemplary declaratives.





References

- ❖ [Johnston2002] Context-Sensitive help for Multimodal Dialogue. Helen Wright Hastie, Michael Johnston, Patrick Ehlen. ICMI '02 Proceedings of the 4th IEEE International Conference on Multimodal Interfaces. 2002.]