

Features of Symbolic Input in 3DUIs

- Users often standing
- Users may physically move around
- No surface to place keyboard
- Difficult to see in low-light conditions
- Different for different hardware configurations

Symbolic Input Tasks

CAP6938 - 3D User Interfaces for Games and Virtual Reality

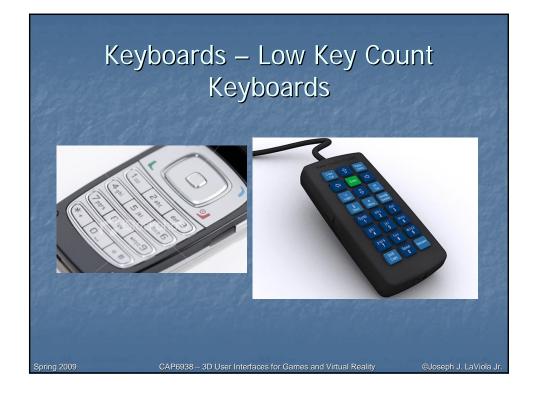
CAP6938 - 3D User Interfaces for Games and Virtual Reality

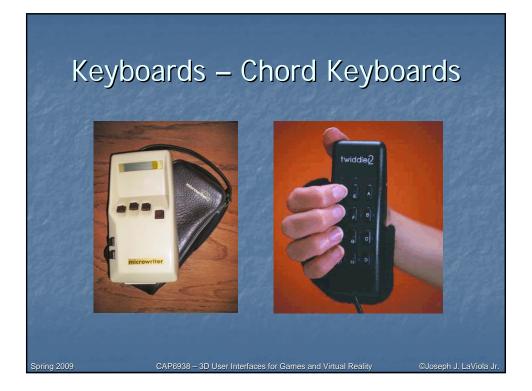
- Alphanumeric input
- Editing alphanumeric symbols
- Markup input

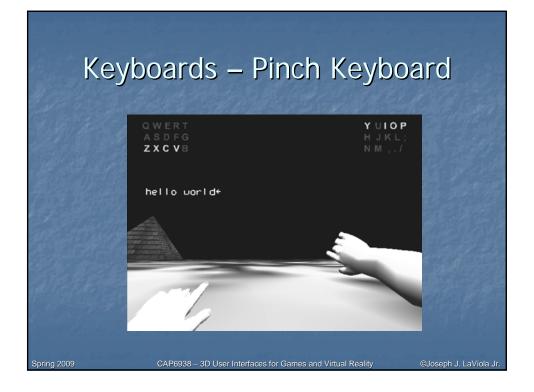
Symbolic Input Techniques

- Keyboard-based techniques
- Pen-based techniques
- Gesture-based techniques
- Speech-based techniques

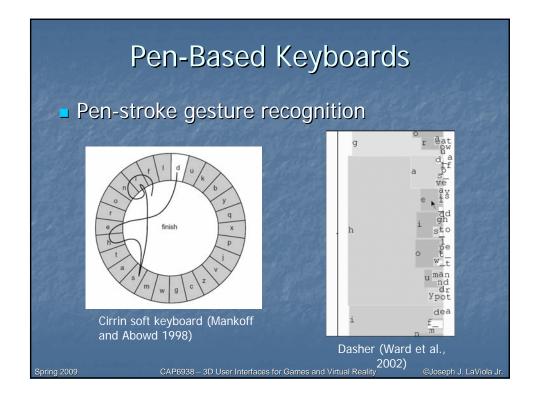


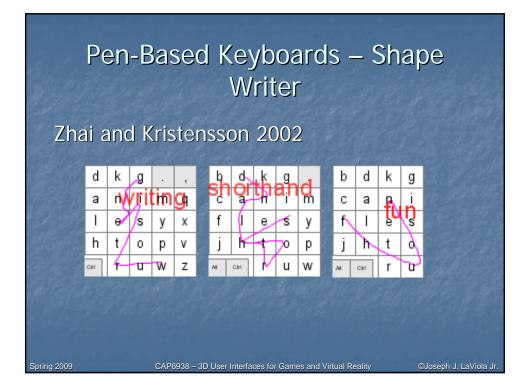


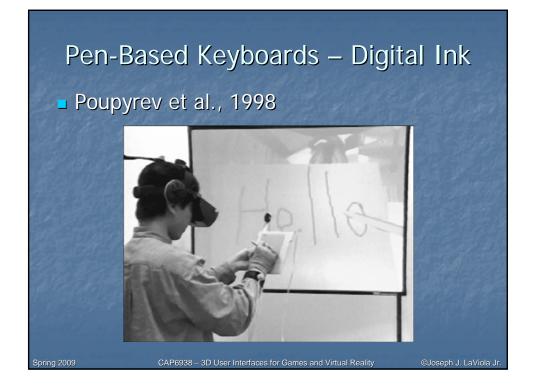


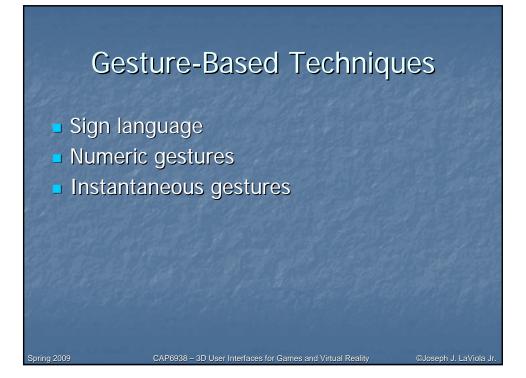












Speech-Based Techniques

Single character speech recognitionWhole word speech recognition

Unrecognized speech input

