Fabian Winkler
UCLA
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Poly-sensing environment

Summary of ideas, presented on 08/21/02 (3)

- audio tracking might be a good way to demonstrate the collaboration among the field nodes

- possible connections between the PSE and other projects (first ideas, have to be further investigated):
  - PSE (speech recognition/audio pattern recognition field nodes) for the theater stage: Prof. Robert Israel (UCLA) is interested in Design|Media Arts students to propose stage designs/digital screen sets for Ravel's "L'enfant et les Sortileges" which is going to be performed in L.A. in late January 2003.
  - possible connection between PSE and the neuro cubes? Neuro cubes are physical building blocks that interact with each other in a collaborative/modular way and help facilitating the design of physical user interfaces. I got one set of the neurocubes for experimentation from Prof. Machiko Kusahara, UCLA Design|Media Arts
  - PSE and phidgets? Phidgets™, or physical widgets, are building blocks that help a developer construct physical user interfaces. Developed at the University of Calgary, in the Department of Computer Science under the guidance of Prof. Saul Greenberg.
  - looking at Simon Penny's "Traces - Wireless full body tracking in the CAVE", which might be one way of representing a person's volume in the PSE's virtual environment

- to do:
  - brainstorming/realization of first simple visual representation of the speech recognition field node's output (simple setup: connection one node - server).
  - creating a mock-up of the cylindrical interface for the PSE's authoring environment (based on brainstorming w/ Bill in May 2002) and the emergent intention matrix in Director

- references:
  - Judith Donath, "chat circles", history interface, http://web.media.mit.edu/~fviegas/circles/
  - Hiroshi Ishii, "Ping Pong Plus" http://tangible.media.mit.edu/projects/PingPongPlus/PingPongPlus.html (full paper pdf, see "system architecture" and especially "ball tracking system")
  - Simon Penny, "Traces" http://www-art.cfa.cmu.edu/penny/texts/traces/
  - neuro cubes http://www.neurocube.co.uk/ (unfortunately only in japanese so far)
  - phidgets, Prof. Saul Greenberg, Department of Computer Science, University of Calgary http://www.cpsc.ucalgary.ca/grouplab/phidgets/