

# Total Recall: In-Place Display of Captured Whiteboard Annotations

## Description

Captured whiteboard annotations are dynamically displayed where they were made, instead of on a separate computer.

The user reveals the previous annotations by holding a PDA to the whiteboard and moving it to the desired location.



## Technology



### *Making annotations:*

Position of pen sent by Mimio whiteboard capture hardware to a PC and stored on it.



Hardware

### *Recalling annotations:*

Ultrasonic emitter sends position of PDA to PC via Mimio receiver. PC sends annotation information via wireless network to PDA. An application on the PDA updates the image in real-time.

## User Study

Users were asked to make annotations, wipe them out and recall them using the system. Our impression was that the applications is straightforward and easy to pick up and provides more natural interaction than when displaying out-of-place.



## Future Work

Add the possibility for several displays to be used simultaneously to support collaborative work. Add time navigation for layered annotations.