N-to-1 Communication: Questionnaire Survey on Writing a Message and Development of E-Yosegaki Tool

1. N-to-1 Communication
Designing a communication tool requires an understanding of the number of people who will engage in the communication act. However, design requirements for multiple people to an individual remain unknown.

2. Related Work
A online guestbook is N-to-1 but non-tangible.


These previous solutions do not focus on tangible N-to-1 communication.

3. Our approach for solution
Conduct a questionnaire survey on handwriting and message privacy.

4. Questionnaire Survey
Focused on the following two topics:

(1) Hand-Writing
- Q1. How strongly do you rate the importance of handwriting? (‘5’ is strongest.)
- Q2. How often do you actually put emotion into your message? (‘5’ is ‘very often’).

(2) Privacy Control
- Q3. How strongly do you worry about the privacy of your own message? (‘5’ is highest.)
- Q4. How do you rate the number of sentences that you write? (‘5’ is ‘many’).

Finding 1: Rated Q1 high but Q2 low
E-Yosegaki can assist them in creating more emotional messages on special occasions.

Finding 2: Subjects who worry about message privacy chose “write only a few sentences”.

5. Development of E-Yosegaki Tool
A user can write a message by hand using an input device.

- A user can write public content and private content separately in the message writing window.
- A recipient can view written messages using a viewer program on the tablet computer physically handed or on to be sent his/her computer later.

6. Summary
- Proposed tangible N-to-1 communication
- Found that handwriting and privacy control are important
- Developed the E-Yosegaki tool