

Multimodal Annotation Tool for Challenging Behaviors in People with ASD

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What is AMA?

Android application for multi-modal annotation

Main capabilities:

- Annotate user-defined events
- Record video, audio, pictures.
- Customize buttons and groups of buttons
- Manage and share annotations

Motivation

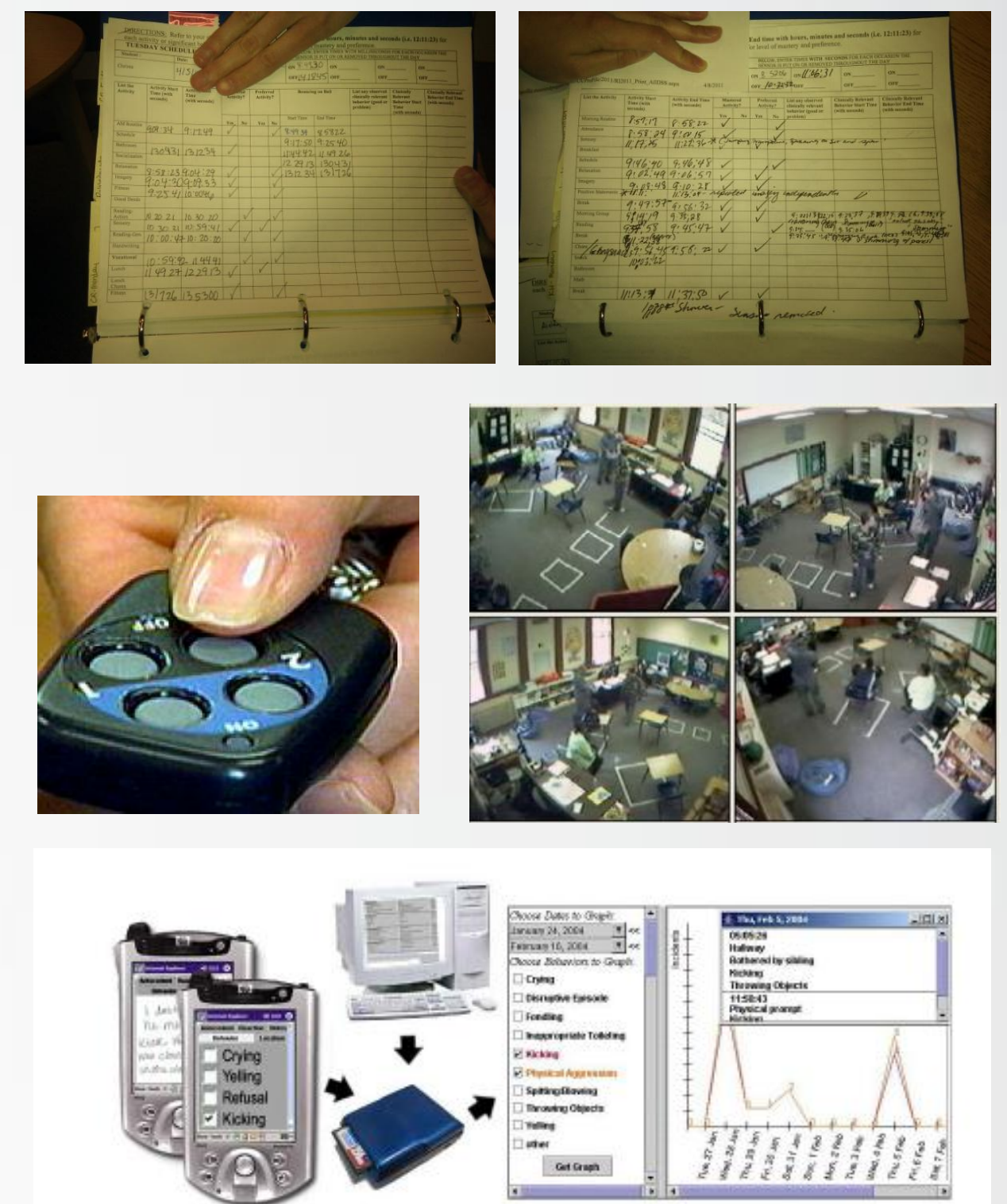
Can we improve the data collection to better design specific behavioral interventions?

Pen & paper:

- Flexible
- Prone to errors
- Slow

Other tools for annotations

- CareLog (Hayes et al. 2008)
- Baby Steps (Kientz et al. 2009)
- SymTrend, AutismTrack...
- Annotation Apps



System and Benefits



Free at: <http://affect.media.mit.edu/projectpages/ama/>

Reliable. Quick annotations without need of manual transcription

Inexpensive. The application uses capabilities of current smart phones

Scalable. The application can be installed on all Android devices

Customizable. Both user interface and annotations can be easily customized

Portable. The device can be used 24/7 to annotate in real-life settings.

Evaluation

Method. 8 teachers at the training center for ASD in Rhode Island System. Usability Scale, Usability questionnaire and open-ended questions after half-day use of the application on an electronic tablet.

Results. System Usability Score: **80.3 % (± 11.8)**
All 8 of 8 teachers complained about time and accuracy in paper & pen and preferred our applications' ease-of-use, quickness, and reliability in the annotation process.

Suggestions. Prefer to use on the phone / Need a protective case

