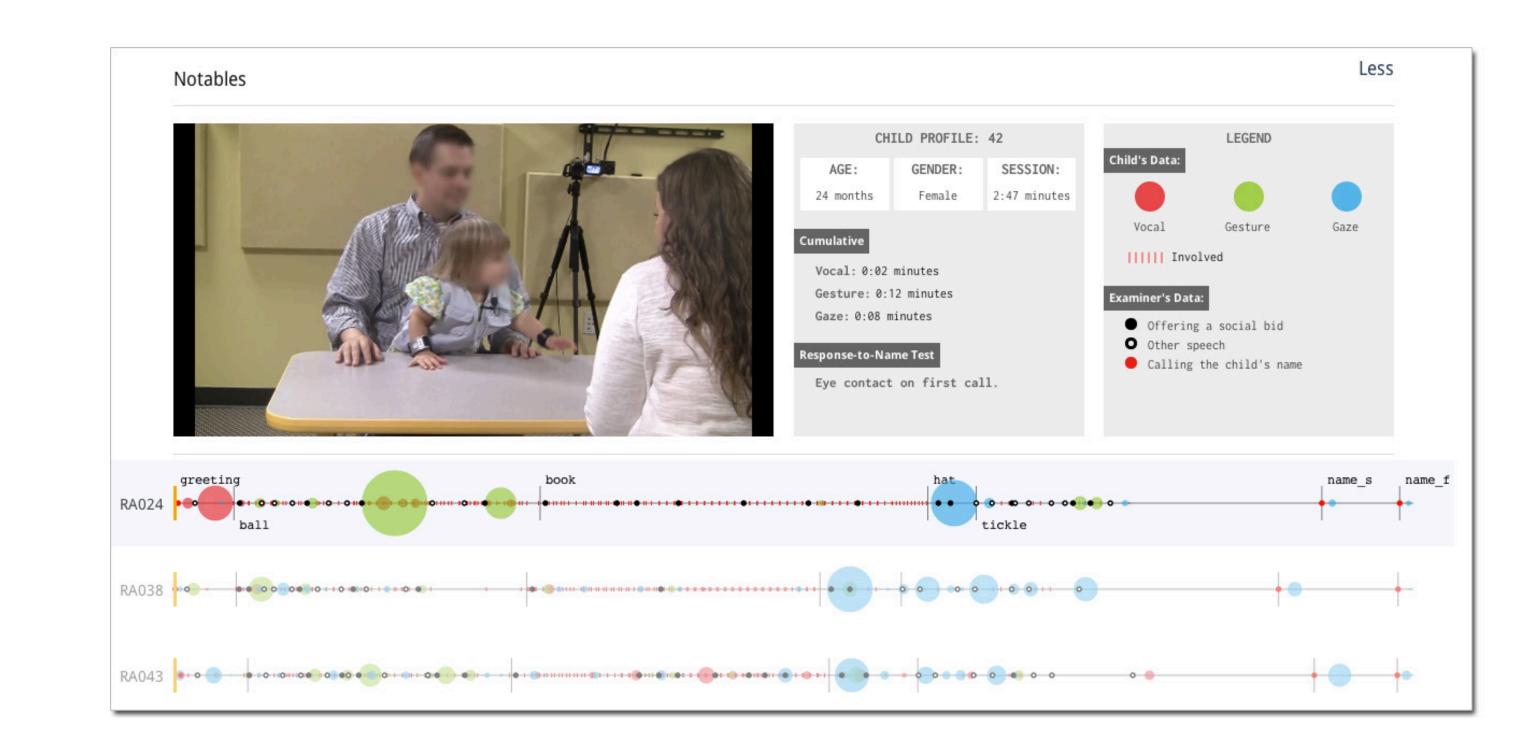
# Plexlines

# Visualizing Social and Communicative Behaviors in Children

Sanny Lin, John Lee, and Karrie Karahalios University of Illinois at Urbana-Champaign

#### **GOALS**

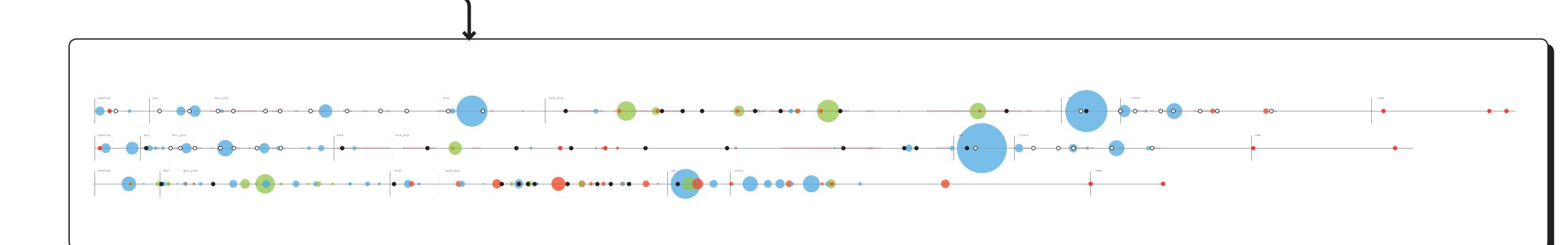
Plexlines is a child-centered, time-based visualization that highlights communicative behaviors known to be warning signs of developmental delay using annotated Rapid ABC data. These visualizations represent a fingerprint for each child, which can easily be compared across a popluation of children. Plexlines aids in quick, accurate prescreening of developmental delays and serves as a lifelong record.



#### <u>CURRENT CODING SCHEME</u> look at my ball red circle (speech) look at my book where is the \_\_\_\_ It's a hat! It's on my head! *unfilled (other speech)* head\_nod ready, set, -one, two, three,... gonna tickle you tickle tickle tickle IIIIIII dashes (all other) laugh book par\_face

## **DESIGN**

The visual hierarchy of the plexline is designed to highlight person-to-person interaction. Specifically, the child's engagement directly with the examiner through speech, gaze, and gesture. Arranged along a timeline, it gives insight on the child's level of engagement and patterns of behavior.



### SAMPLE STUDIES

Plexlines can be read at various degrees of detail.

