

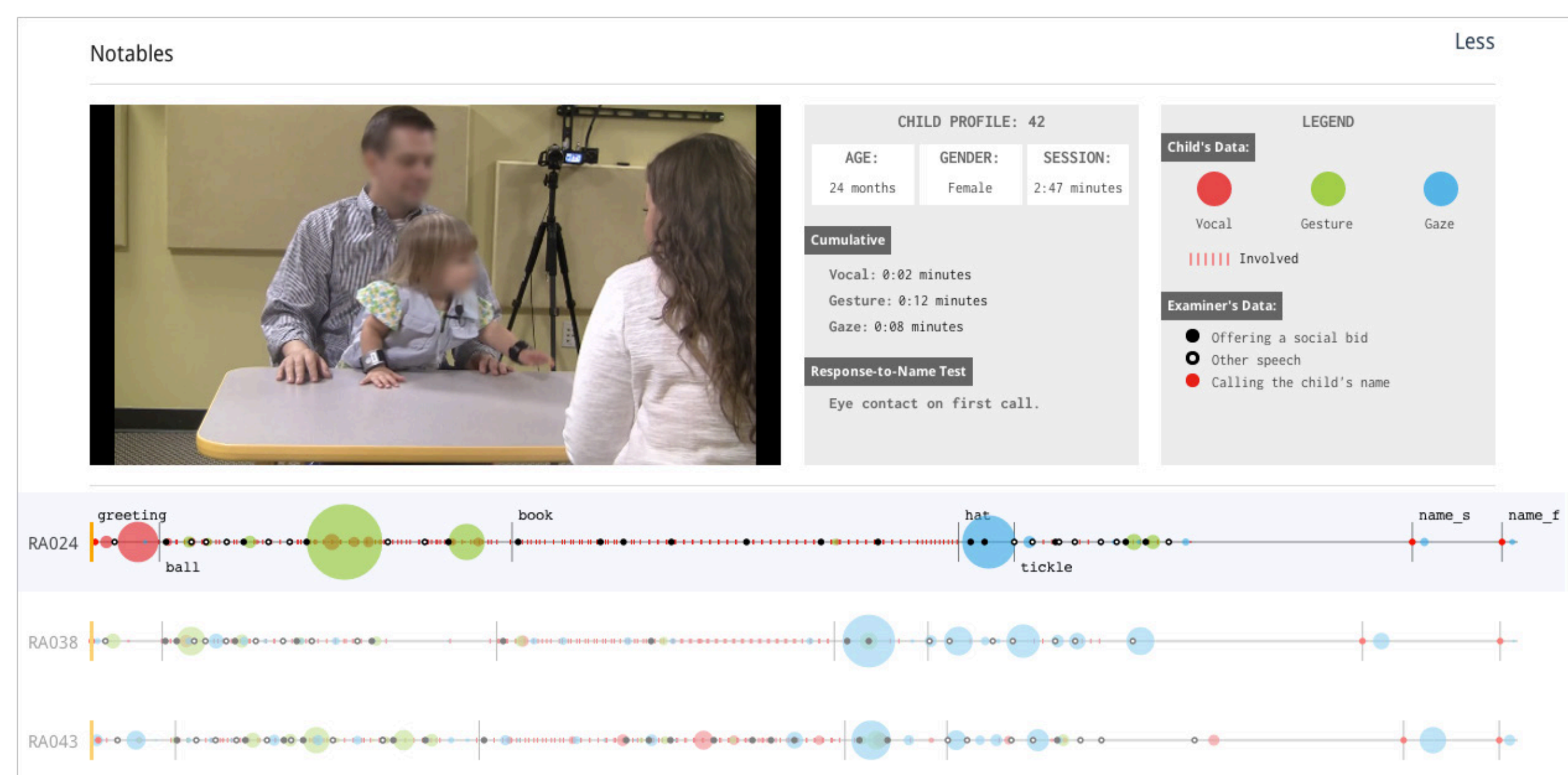
Plexlines

Visualizing Social and Communicative Behaviors in Children

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GOALS

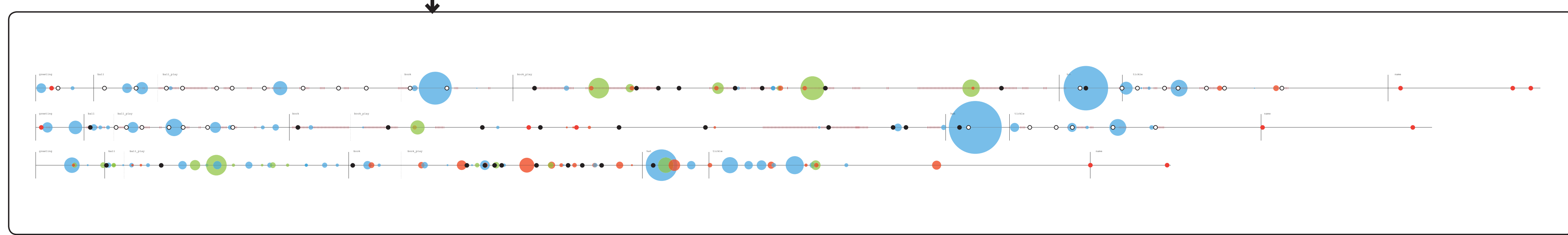
Plexlines is a child-centered, time-based visualization that highlights communicative behaviors known to be warning signs of developmental delay using annotated Rapid ABC data. These visualizations represent a fingerprint for each child, which can easily be compared across a population of children. Plexlines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



CURRENT CODING SCHEME	
CHILD	EXAMINER
<ul style="list-style-type: none"> blue circle (gaze) gaze_dir_c ex_face 	<ul style="list-style-type: none"> solid (social bid) speech_e look at my ball roll it back? look at my book what's next? can you turn the page? where is the...? It's a hat! It's on my head!
<ul style="list-style-type: none"> red circle (speech) speech_c verbal vocal 	<ul style="list-style-type: none"> gesture_e reach point tap head_nod head_shake wave wave_away push_away pat_table show clap other ball_book book_shut_c
<ul style="list-style-type: none"> green circle (gesture) gesture_c reach point tap head_nod head_shake wave wave_away push_away pat_table show clap other ball_book book_shut_c 	<ul style="list-style-type: none"> unfilled (other speech) speech_e hello play with new toys let's play ball ready, set, -- one, two, three, -- go! gonna tickle you gonna get you tickle tickle tickle
<ul style="list-style-type: none"> dashes (all other) voe_aff_c laugh whine_cry gaze_dir_c ball book ex_hands pat_face other unscorable 	<ul style="list-style-type: none"> red (call name) speech_e c_name hi_c_name

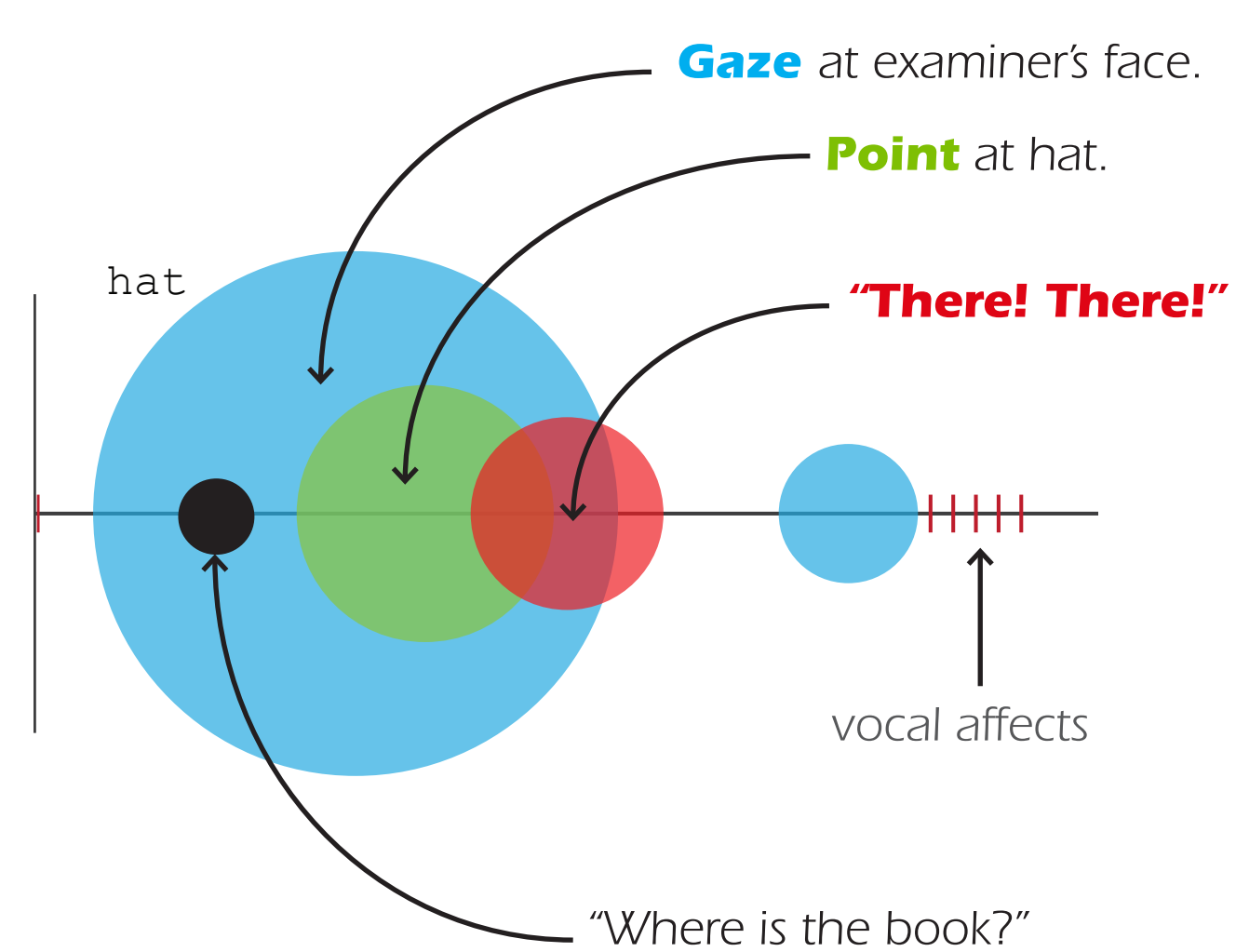
DESIGN

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.

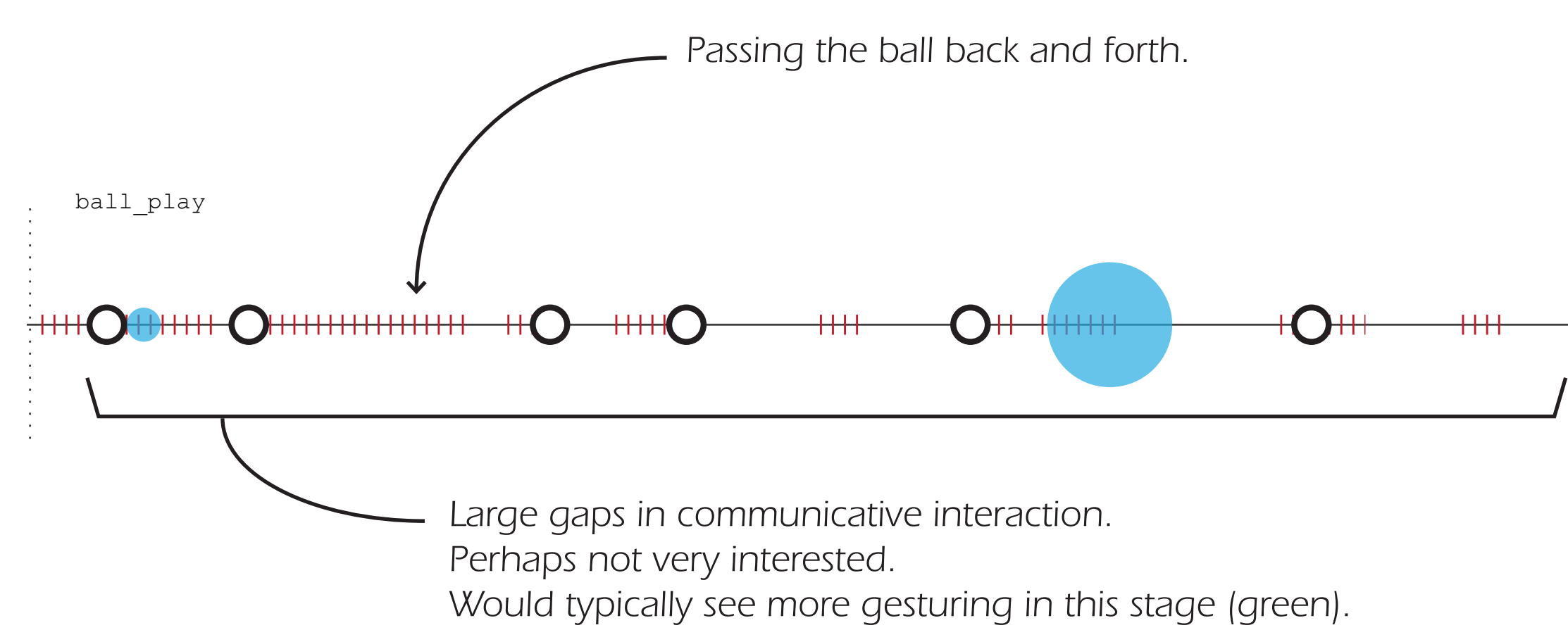


SAMPLE STUDIES

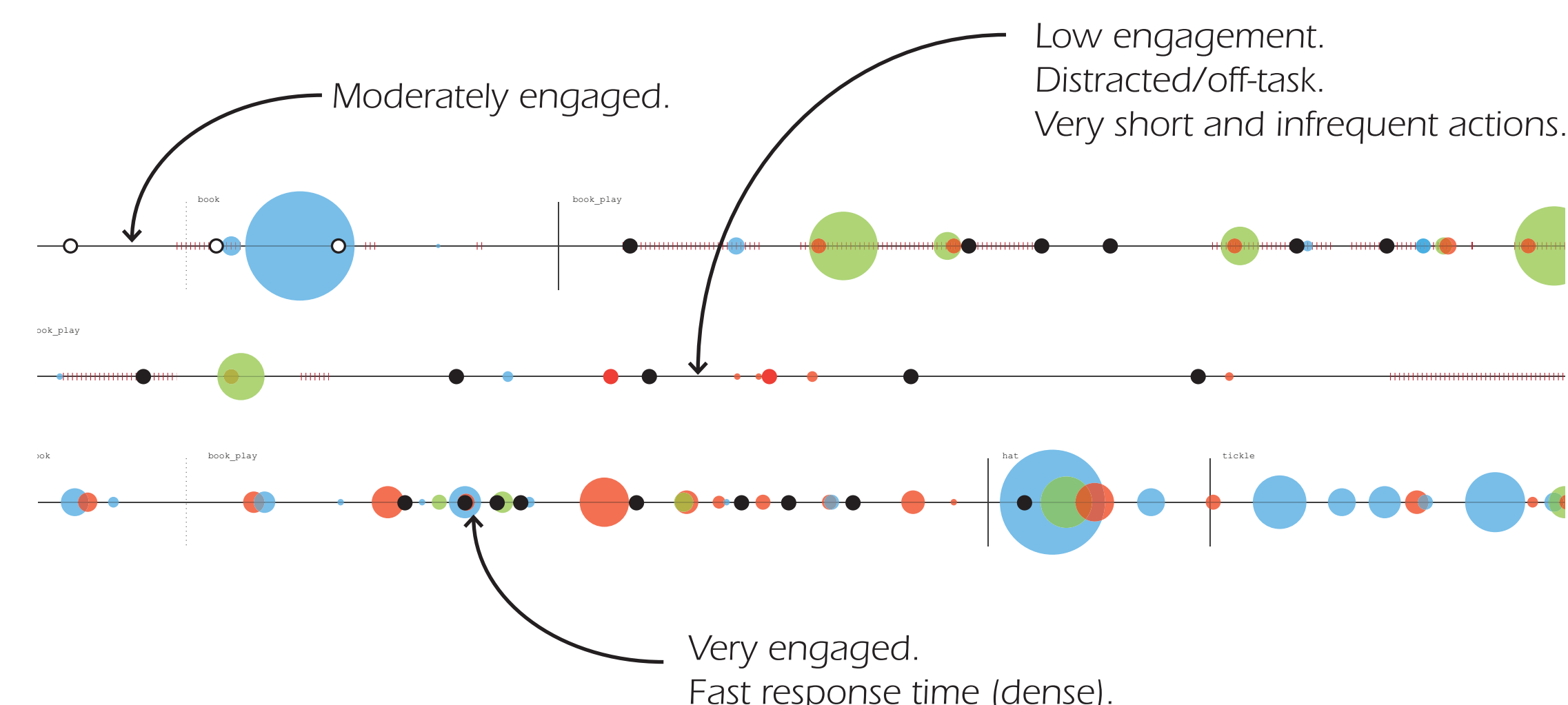
Plexlines can be read at various degrees of detail.



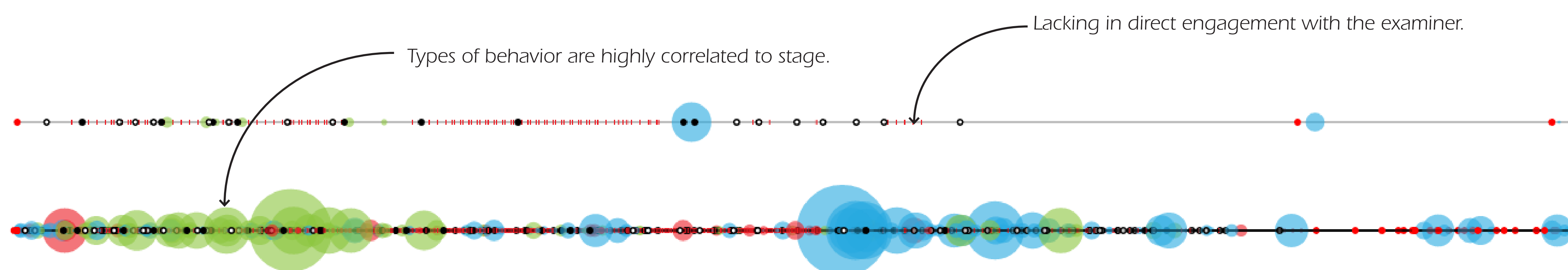
Viewing one initiation-response sequence



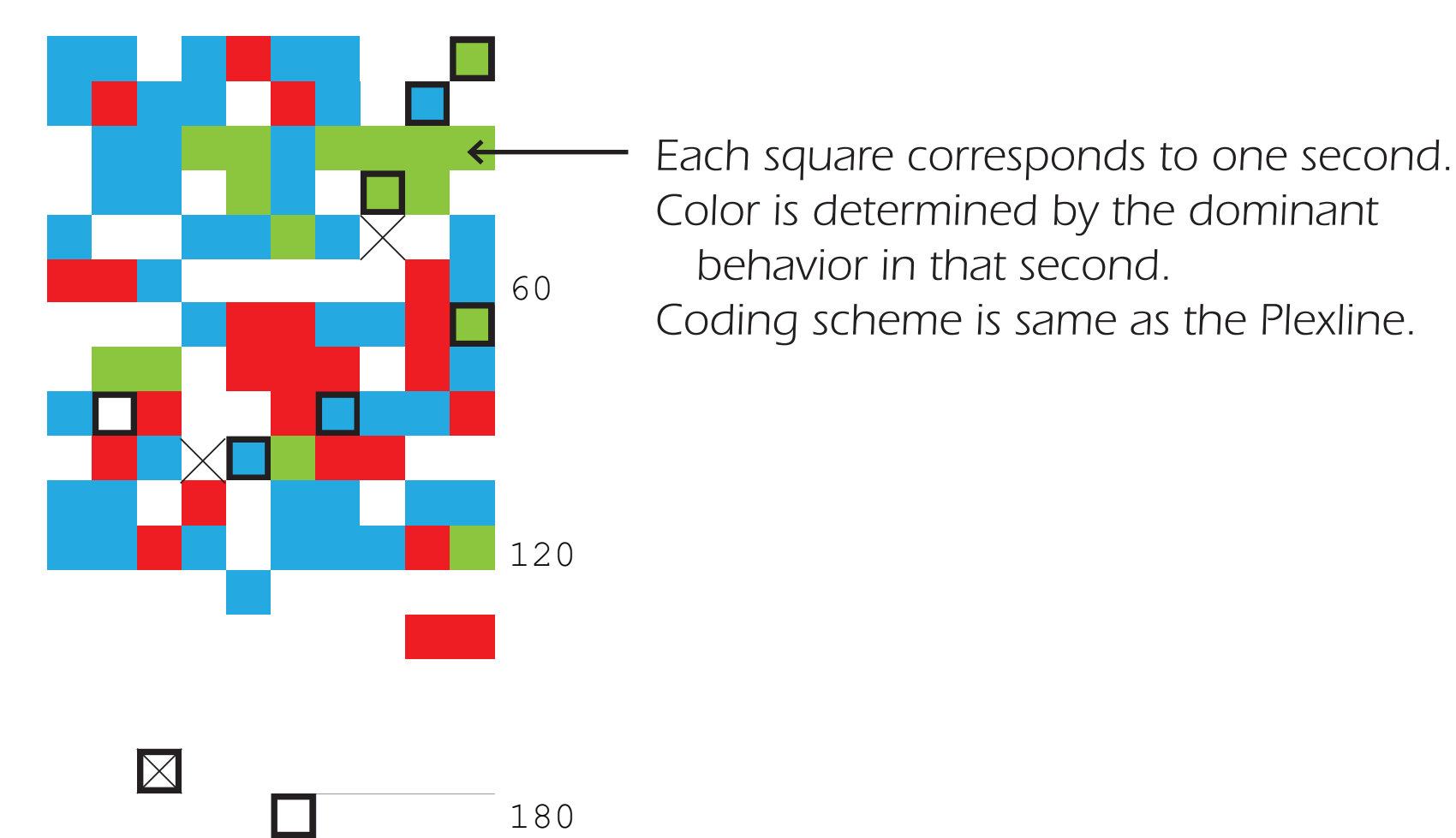
Viewing one stage



Viewing whole Plexlines



A Plexline compared against an aggregate of Plexlines.



An overview of a Plexline visualized as a "stamp"