ABSTRACT
In this video, real-life acting professor Matthew Gray tutors Data the Robot (a Nao model) to improve his expression of emotion via Chekhov’s Psychological Gestures. Though the video narrative is fictional and the robot actions pre-programmed, the aim of the dramatization is to introduce an acting methodology that social robots could use to leverage full body affect expressions.

We note that there are various schools of physical theater dedicated to understanding movement [5]. Related investigations in the robotics world that have applied acting method or practice to social robot design or architecture also include [2][3][6][7][8][9][10].

As Blaire writes about in her text on acting and neuroscience [1], the discovery of mirror neurons in our brain have led some dramaturges to theorize that audience members simulate the gestures of the performers through their own neural circuitry for interpretation. If so, full body gestures may be able to tap into our emotional experience in a uniquely human way. We hope this will be the first of several spirited demonstration videos that explore intersections wherein human acting methodologies might benefit the development of robot non-verbal expressions.

Categories and Subject Descriptors
J.5 [Arts and Humanities]: Arts, fine and performing**

Keywords
Acting Methodology, Entertainment Robots, Gesture, Robot Theater, Social Robots

REFERENCES