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**From:** Joscha Bach <[REDACTED]>  
**Sent:** Friday, June 8, 2018 11:25 PM  
**To:** Jeffrey Epstein  
**Subject:** Emotion as deception

Dear Jeffrey,

Recently, I realized that emotional expression did not evolve as a =eadout of the mental states of people, but via adversarial deception. =s soon as people (or social animals) started to evolve the ability to =nfer the attitudes and mental configurations of others by observing =heir posture, gaze and face, the observed ones evolved the ability to =ame that modeling. Emotional expression is a hack on emotion =ecognition. In turn, the observers evolved the ability to take this =nto account, and now expected that certain emotional states would be =ccompanied with default expressions, and they'd have to look =or the subtle deviations from the defaults if they wanted to infer the =ctual mental state. The result arms race is probably what is =esponsible for the expression archetypes.

I wonder if it is possible to simulate the adversarial evolution of =motional expression in a game theoretic setting. (I thought you might =ike the idea that useful differentiation of communication may have =volved from deception.)

Unrelated: The Science of Consciousness Conference folks have published = short interview, this time with a better shirt: =<https://youtu.be/mkROH1QlDi0?t=13m33s>

Also, the IRS has written a letter demanding to get paid; could we =lease do something about that?

Bests,

```
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