

Figure 9: Image errors averaged across characters.



Figure 7: The experiment system in UE4 showing the character we used for training, which was also the template model used to create the experiment character rigs.

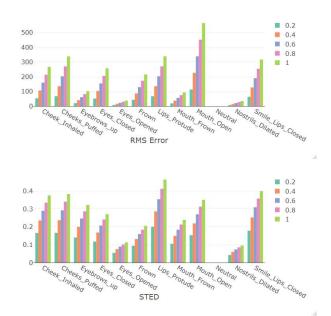


Figure 8: Geometry errors averaged across characters.

		ı	1	ı	1
Order	RMS	STED	MSE	1-SSIM	Perceptual
1	Mouth Open	Lips Protrude	Mouth Open	Frown	Mouth Open
2	Lips Protrude	Smile Lips Closed	Frown	Mouth Open	Eyes Closed
3	Cheeks Puffed	Cheeks Puffed	Eyes Closed	Smile Lips Closed	Smile Lips Closed
4	Smile Lips Closed	Cheek Inhaled	Smile Lips Closed	Cheek Inhaled	Eyebrows Up
5	Cheek Inhaled	Mouth Open	Eyebrows Up	Lips Protrude	Lips Protude
6	Eyes Closed	Eyebrows Up	Lips Protrude	Eyes Closed	Cheek Inhaled
7	Frown	Eyes Closed	Cheeks Puffed	Eyebrows Up	Eyes Opened
8	Eyebrows Up	Mouth Frown	Cheek Inhaled	Cheeks Puffed	Cheeks Puffed
9	Mouth Frown	Frown	Eyes Opened	Mouth Frown	Mouth Frown
10	Eyes Opened	Eyes Opened	Mouth Frown	Eyes Opened	Frown
11	Nostrils Dilated				

Table 9: Our AUs ordered by each of the different error metrics and the perceptual results, averaged across all characters and Activation Levels.

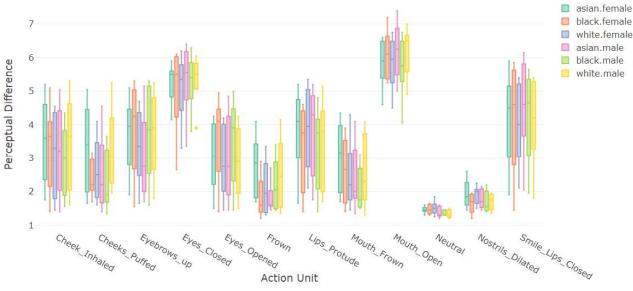


Figure 10: Interaction of AU, Sex, and Race from our experiment.

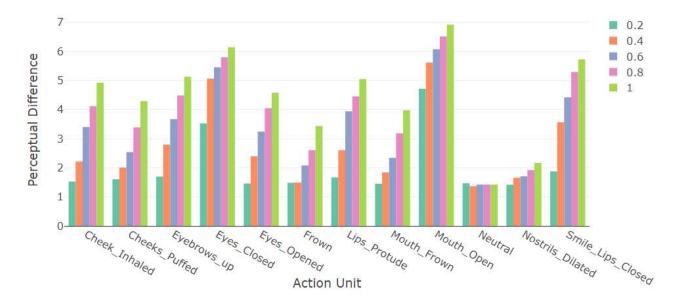


Figure 11: Interaction of AU and Activation from our experiment.