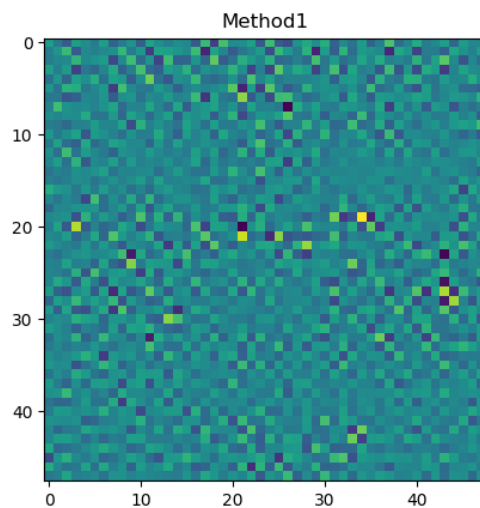


Homework 2

The reported cost values were calculated using the “half MSE” formula.

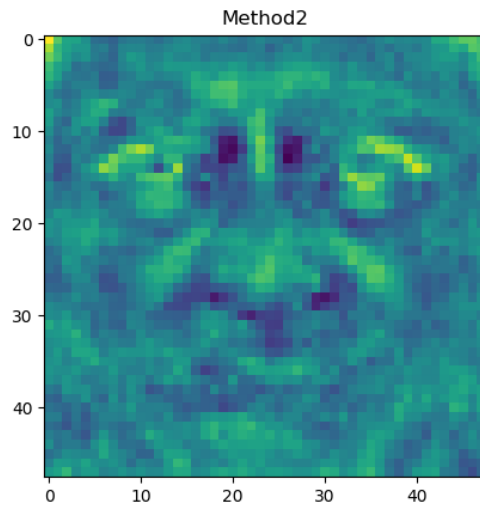
MSE W1 Training: 39.242962989290675
Bias W1 Training: 37.61138638436665

MSE W1 Test: 206.79647485400474
Bias W1 Test: 37.700635649946214



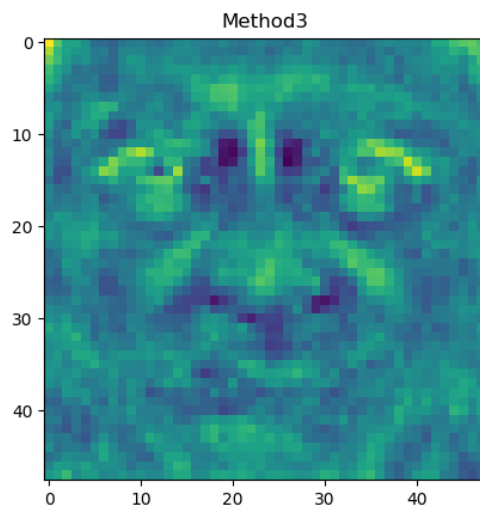
MSE W2 Training: 83.55244684133189
Bias W2 Training: 14.406364759432456

MSE W2 Test: 93.08595742475963
Bias W2 Test: $-3.957504064905967e+20$



MSE W3 Training: 83.54165917731969
Bias W3 Training: 14.411206836601599

MSE W3 Test: 93.08476571116371
Bias W3 Test: 14.411206836601599



W3 RMSE: 9.64806434910274

5 most egregious errors:

Image 884: Error = 49.98106880696857 Actual = 10.0 Predicted = 59.98106880696856

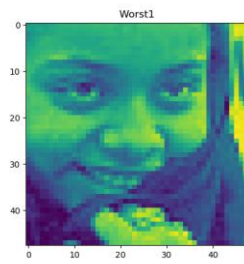


Image 1640: Error = 48.43018044870917 Actual = 4.0 Predicted = 52.430180448709145

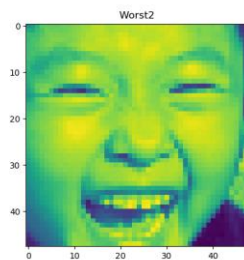


Image 830: Error = 47.40747850432496 Actual = 89.0 Predicted = 41.59252149567504

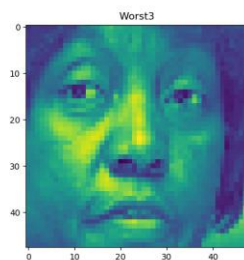


Image 581: Error = 46.74293655529157 Actual = 80.0 Predicted = 33.25706344470842

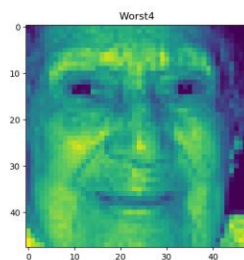


Image 939: Error = 45.56882632411552 Actual = 8.0 Predicted = 53.56882632411551

