

HW 2

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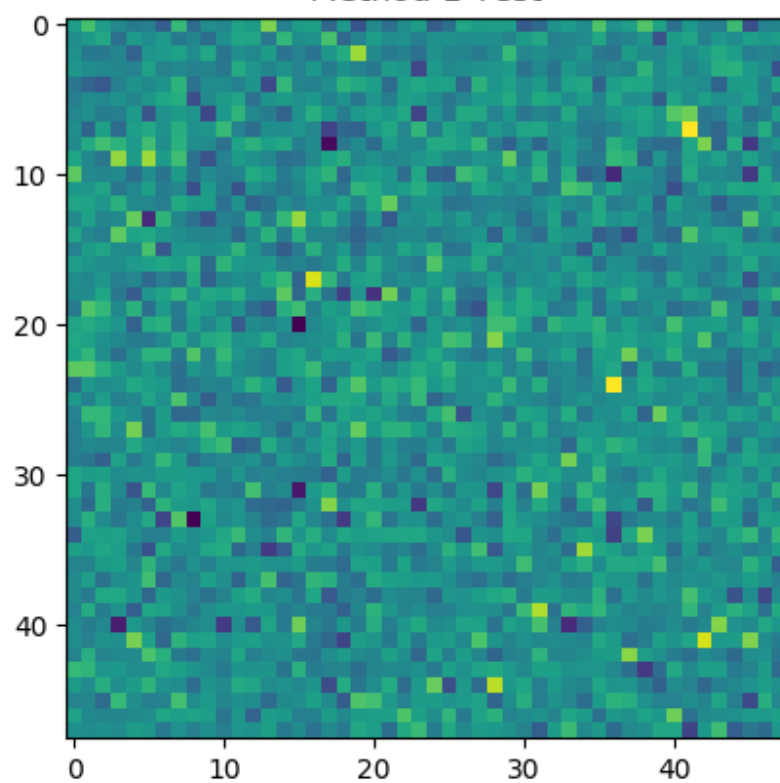
Scores

	Method 1	Method 2	Method 3
Train	Loss: 59.2439645124995 Bias: 37.2559278672969	Loss: 97.75604191676196 Bias: 0.07948459187583488	Loss: 97.75943809798444 Bias: 0.07948459187583488
Test	Loss: 8.416431130693718 Bias: 530.6349188452339	Loss: 93.22974265517924 Bias: 0.050486842690220614	Loss: 93.23187306859272 Bias: 0.050486842690220614

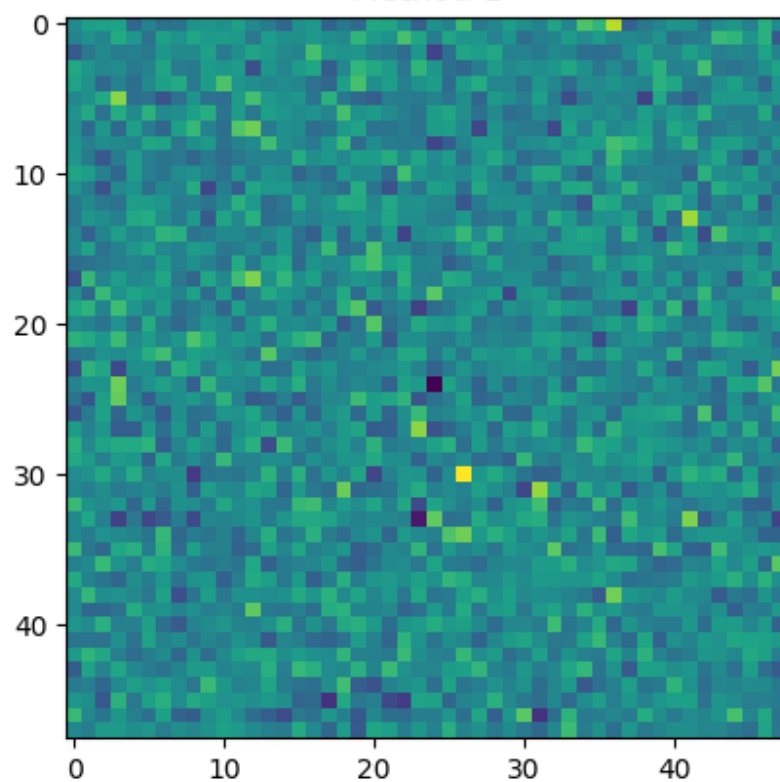
Difference on Weight Vectors

When we measured the bias of the training on method 1 we found that it was very large, this led us to believe that the simpler methods are less accurate and simpler than they should have been. The weight vector for the training of method 1 appears to be darker than the testing and the testing shows more black dots in it. The weight vector for the training of method 2 appears to be lighter than the testing. The weight vector for the training of method 3 appears to be darker although the testing vector shows a vastly larger amount of black pixels.

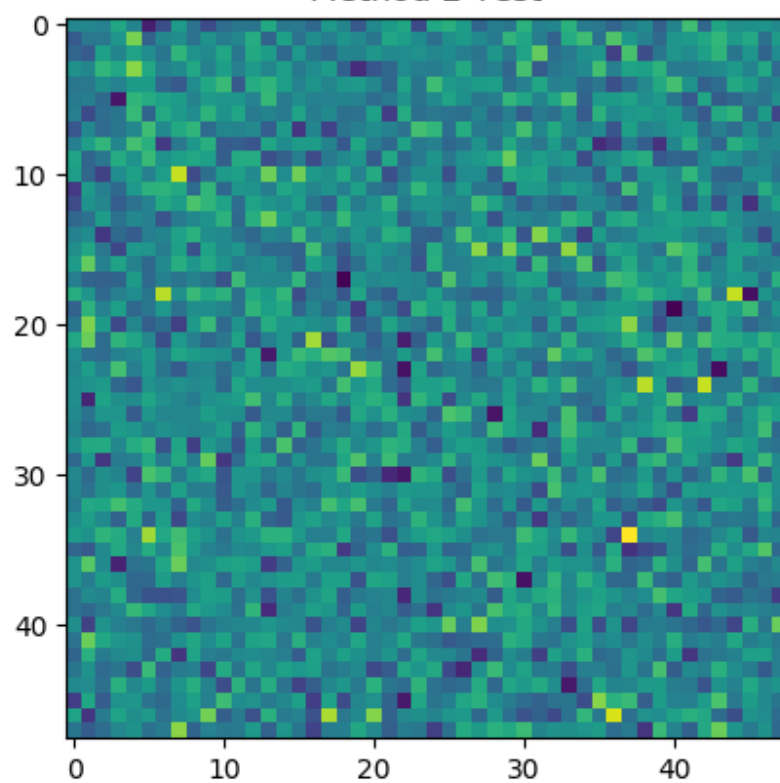
Method 1 Test



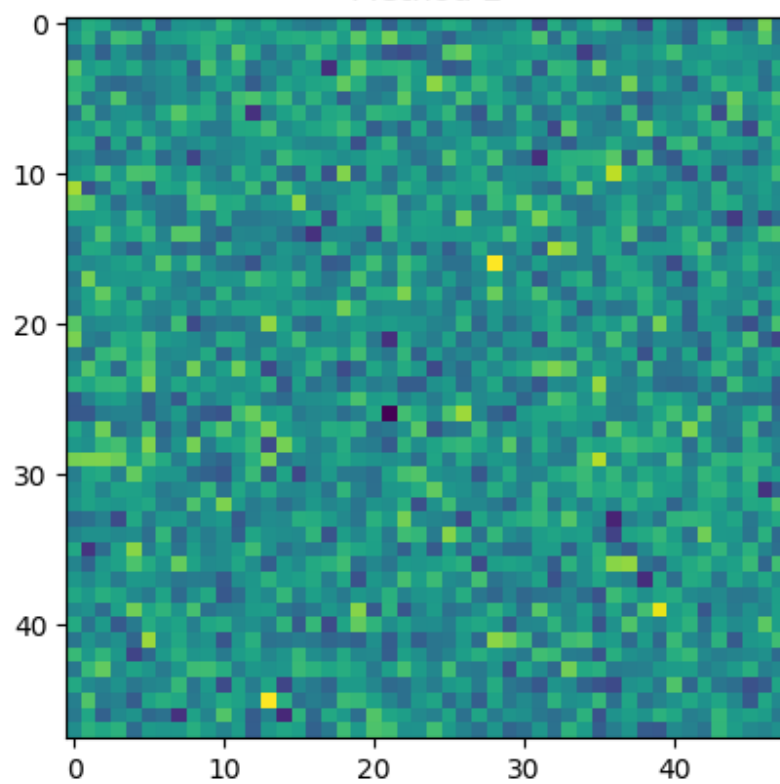
Method 1



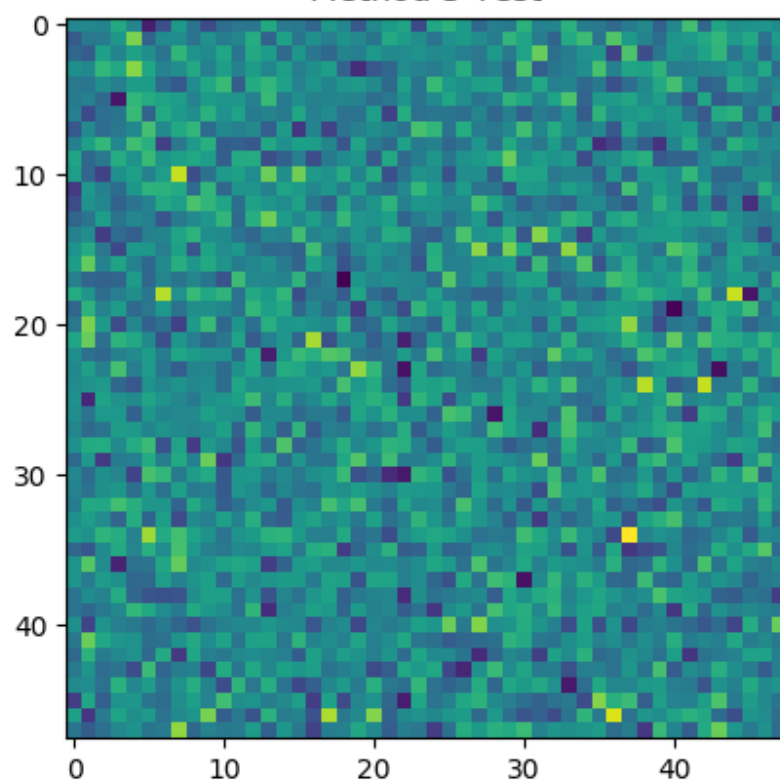
Method 2 Test



Method 2



Method 3 Test



Method 3

