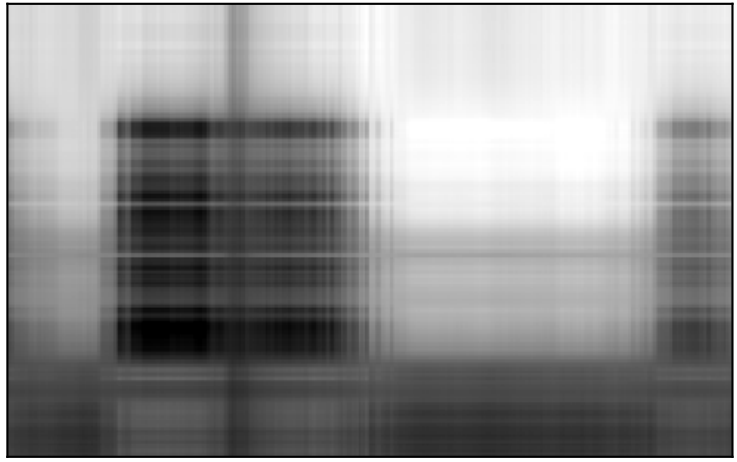
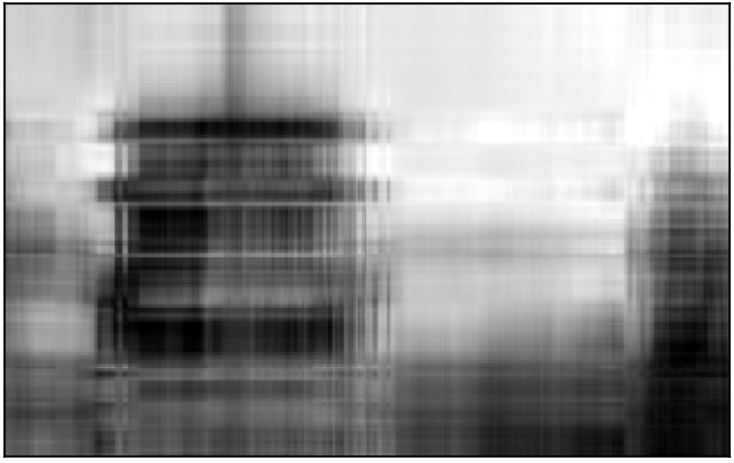
(a) rank 200



(b) rank 2, relative error 0.212



(c) rank 5, relative error 0.155



(d) rank 20, relative error 0.095

