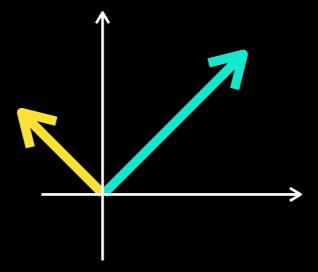
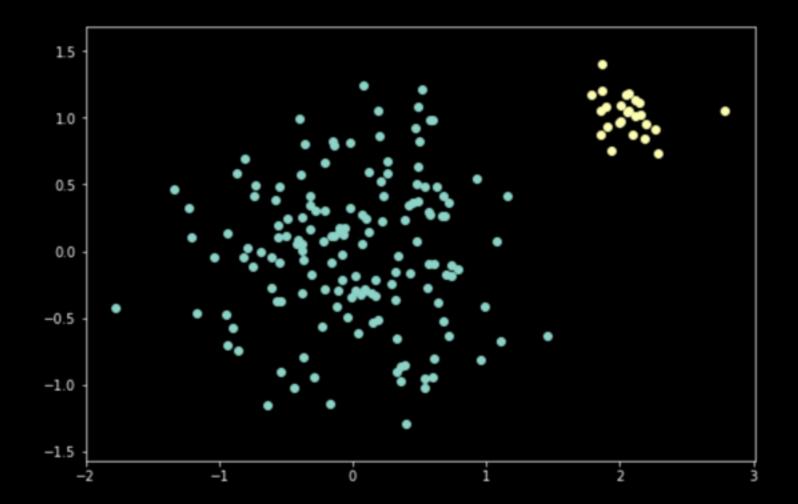
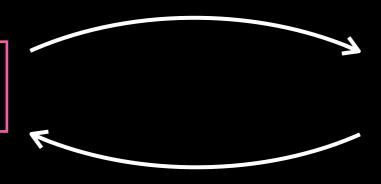
K-Means

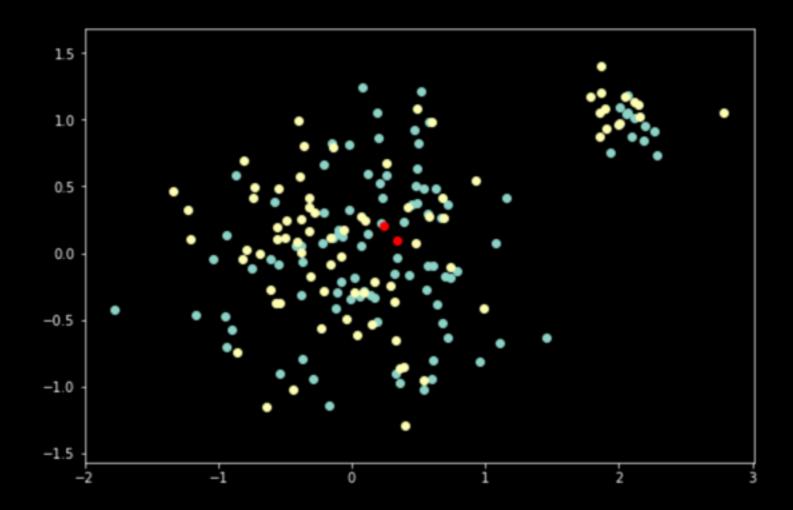
Linear Algebra Essentials





Update centers of the clusters

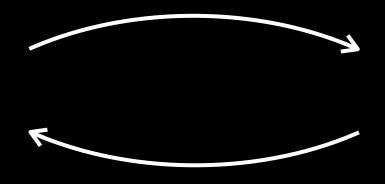


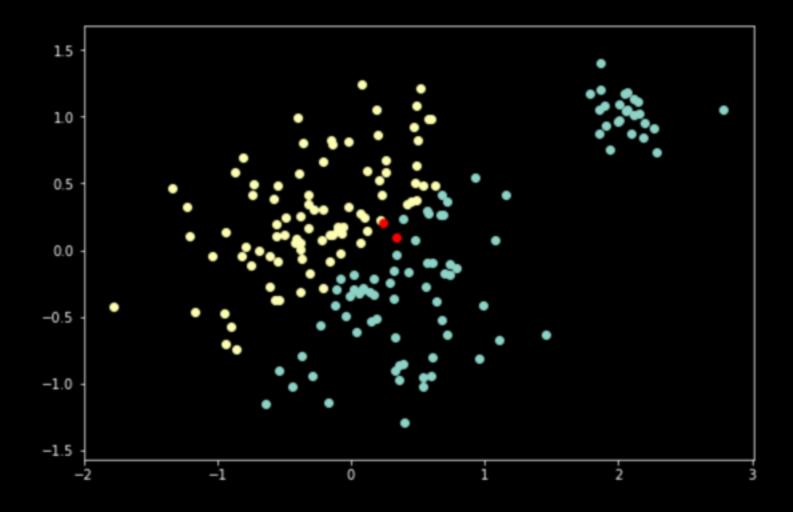


Update Means

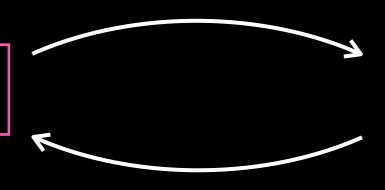
$$C_k = \frac{1}{n_k} \sum_{i}^{n_k} v_i, if v_i \in class k$$

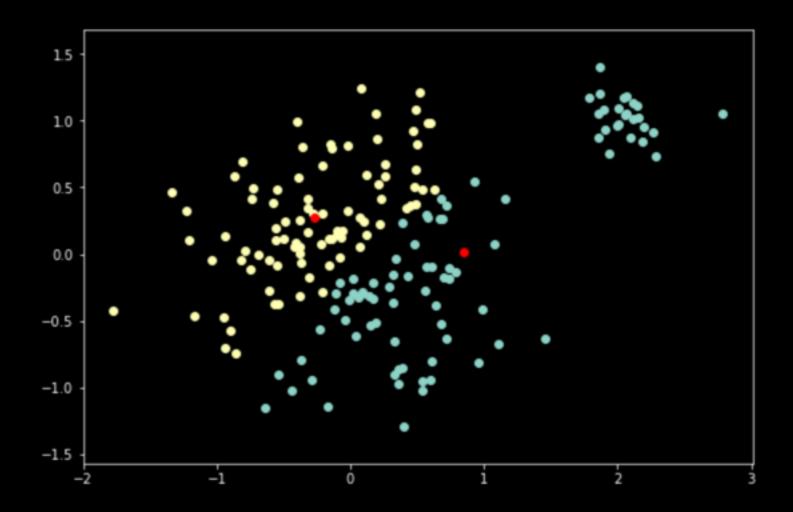
Update centers of the clusters



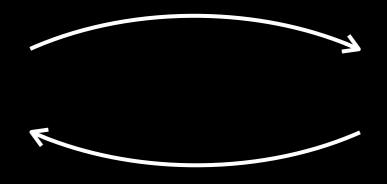


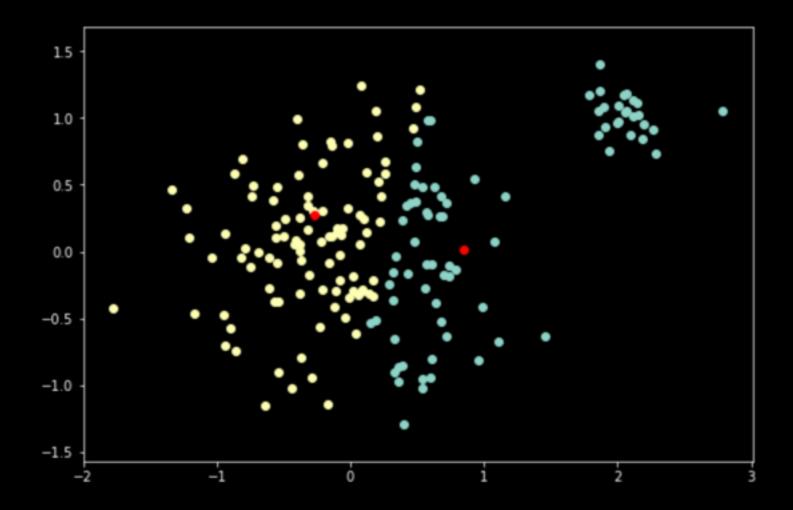
Update centers of the clusters



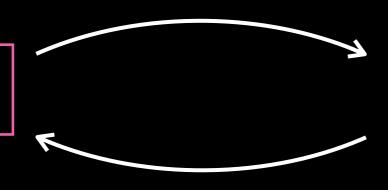


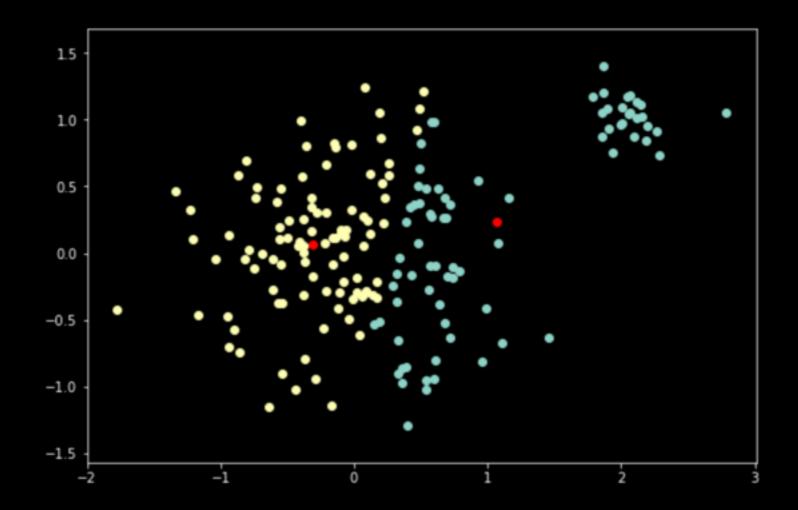
Update centers of the clusters



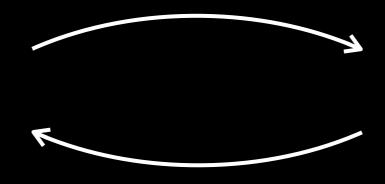


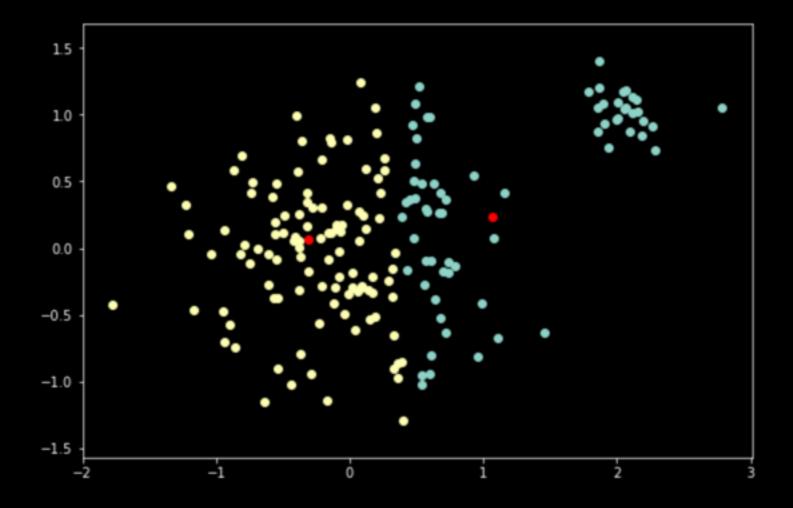
Update centers of the clusters



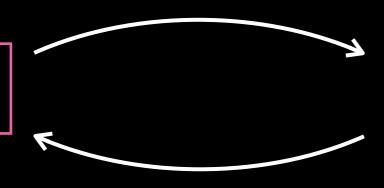


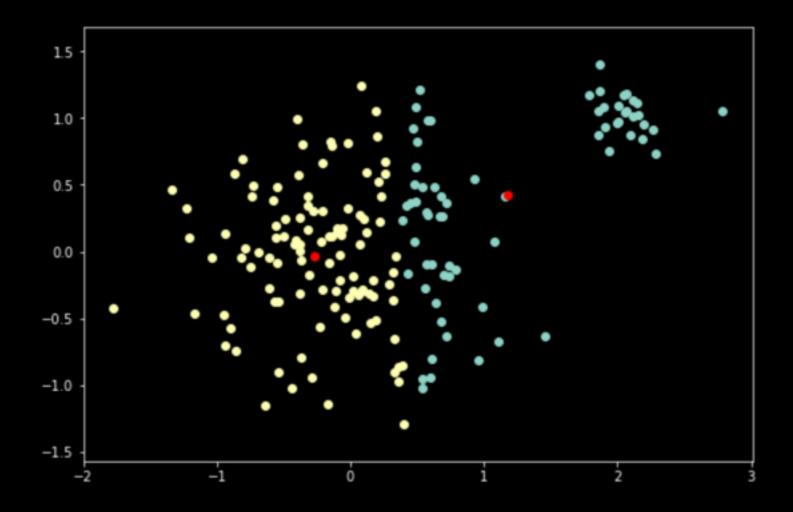
Update centers of the clusters



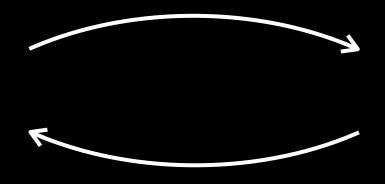


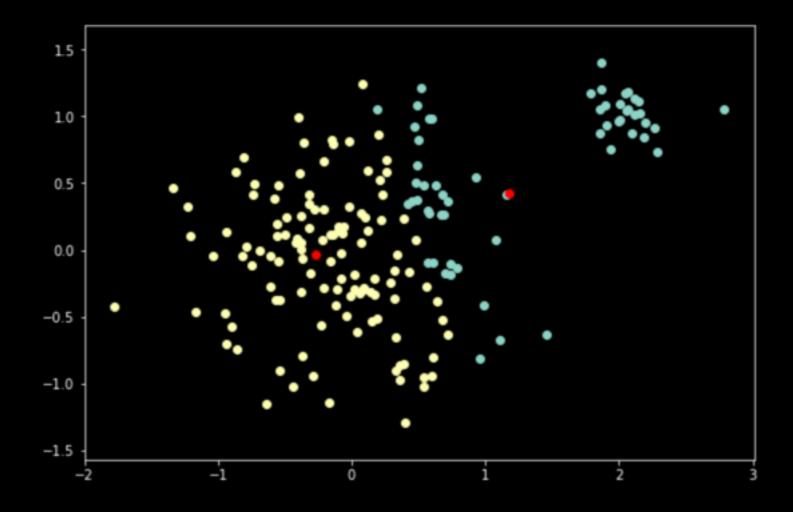
Update centers of the clusters



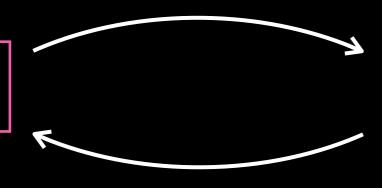


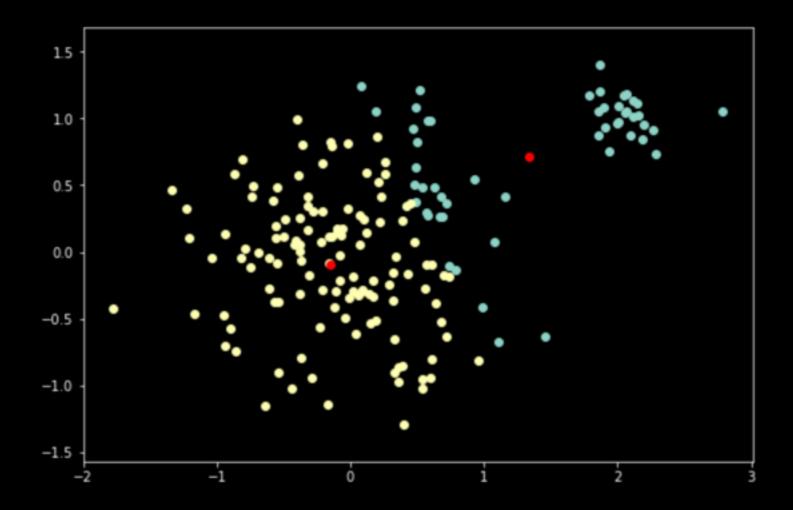
Update centers of the clusters



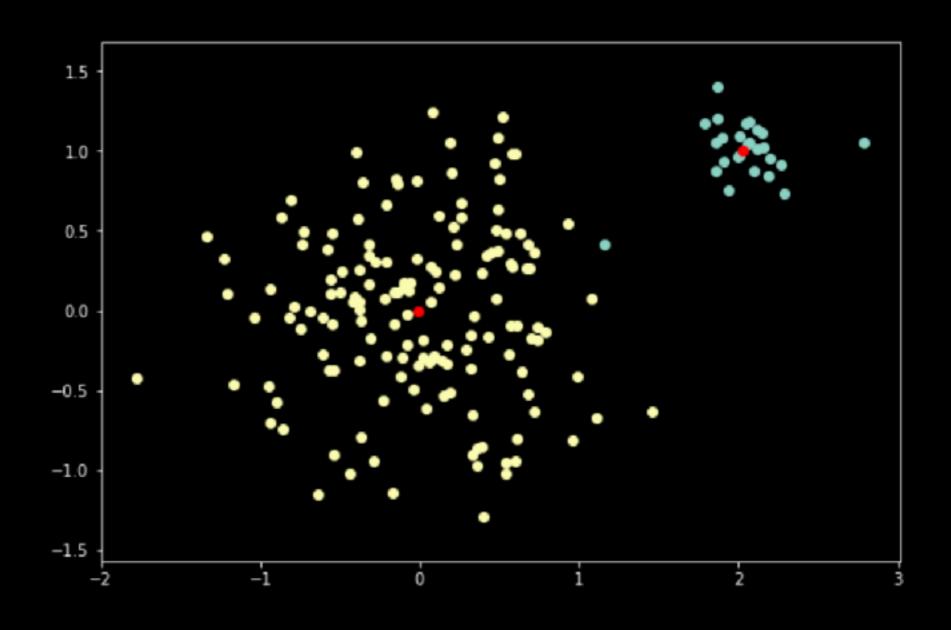


Update centers of the clusters





Algorithm converges



Algorithm converges

