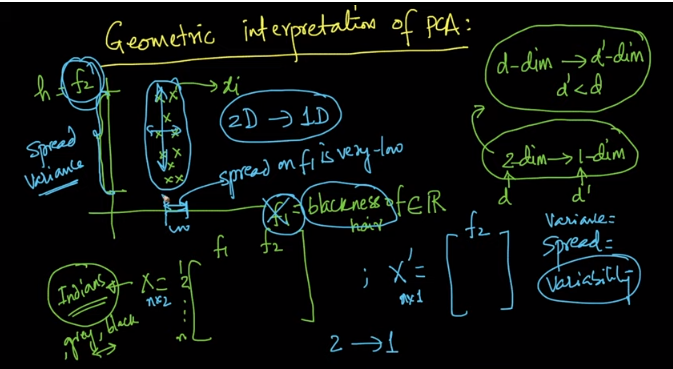
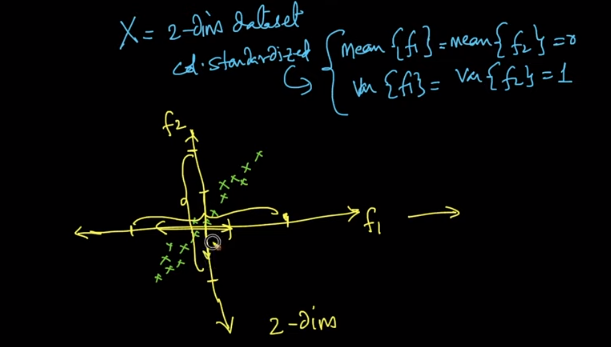
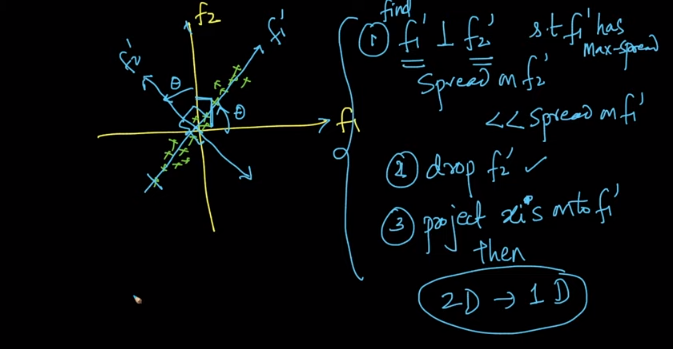
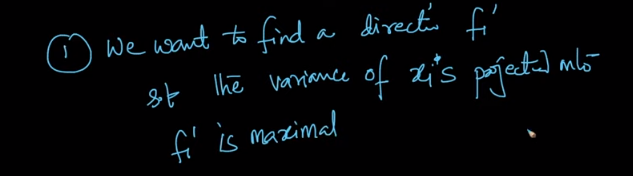
**Principal Component Analysis (PCA)**

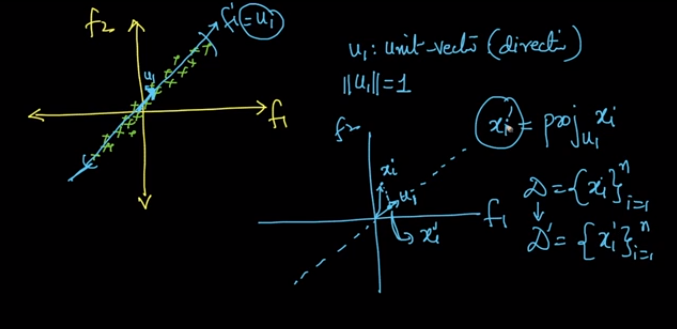


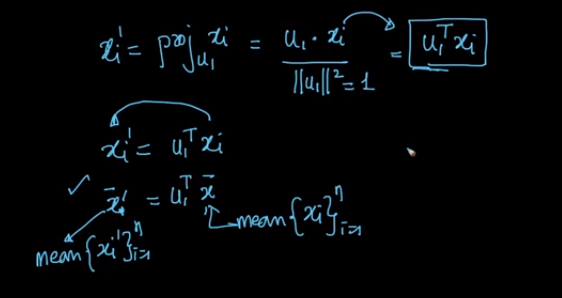


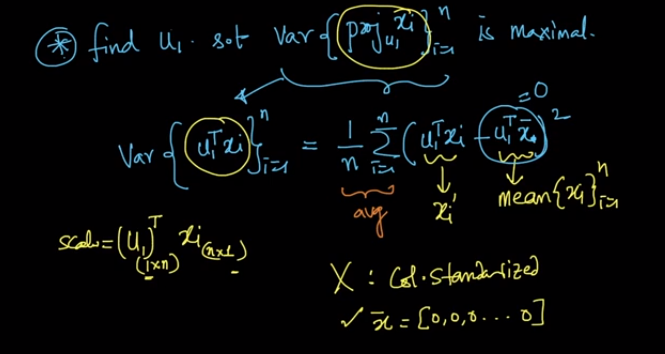


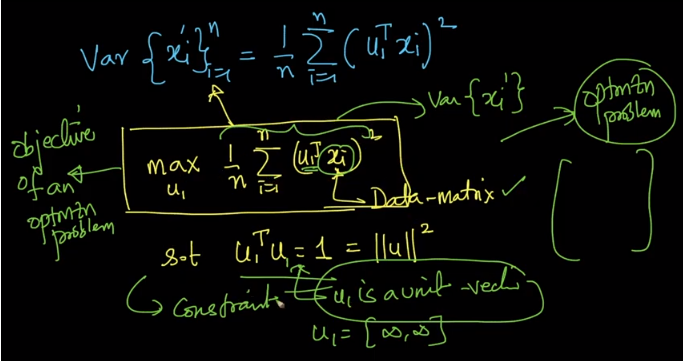
1. **Maximize Variance way**



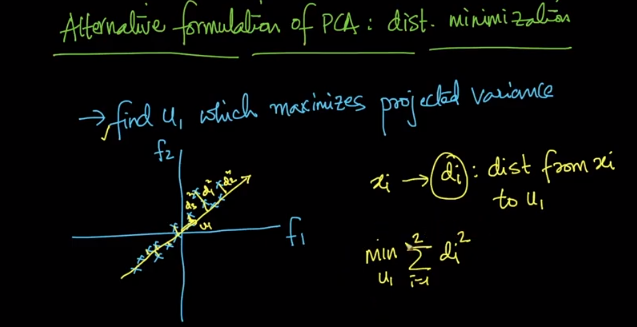


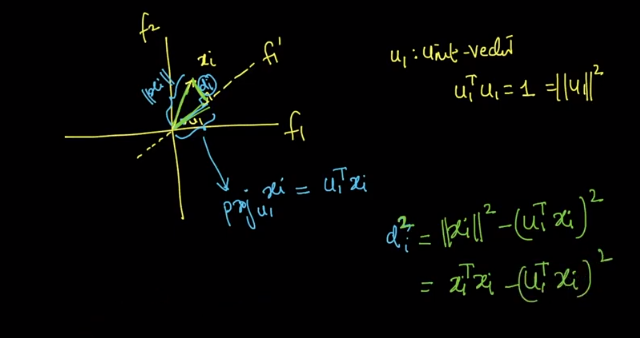


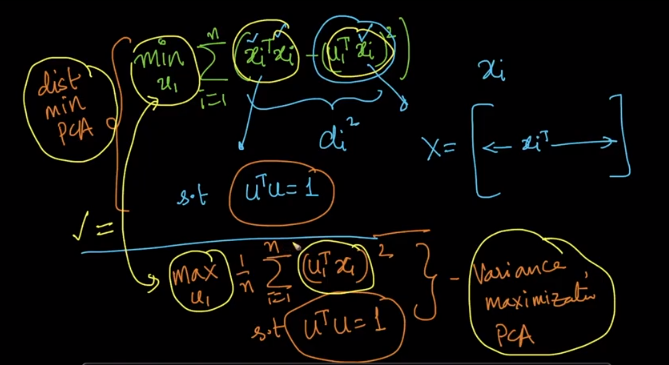




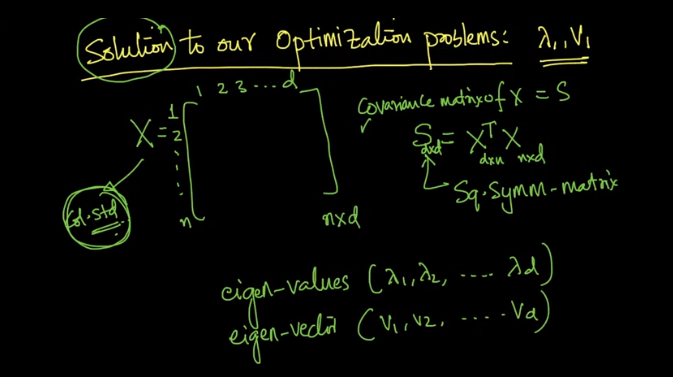
1. **Minimize Distance way**

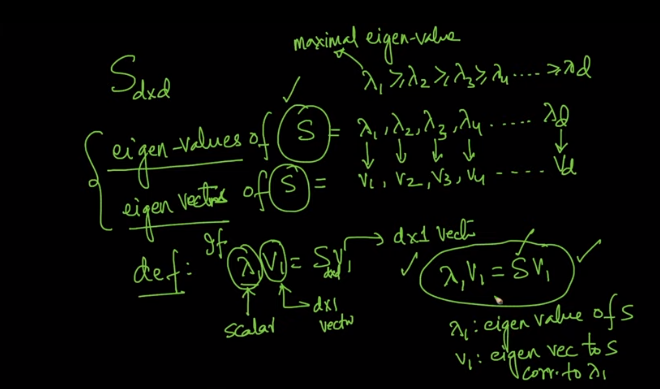


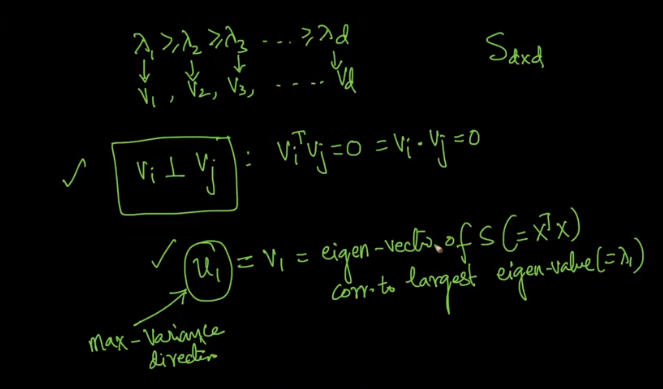


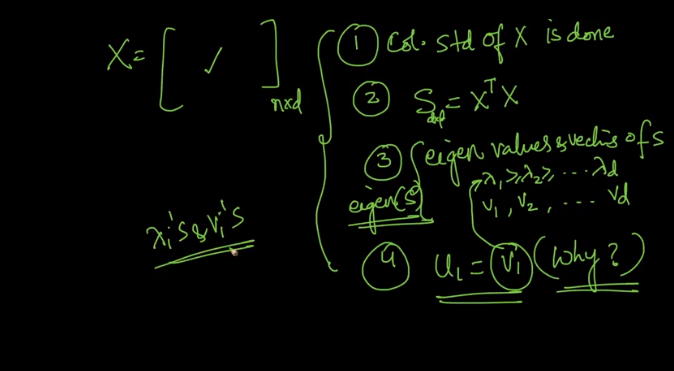


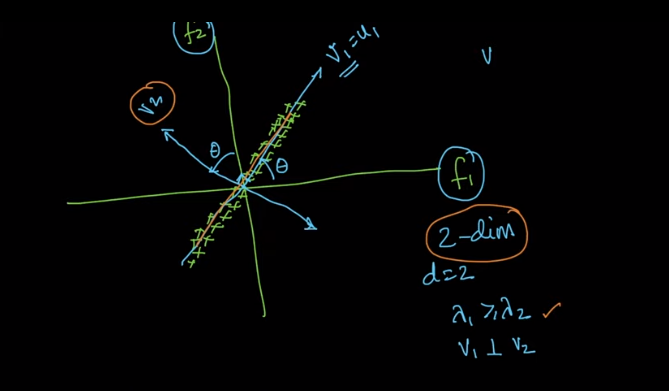
**Eigen values and Eigen vectors**

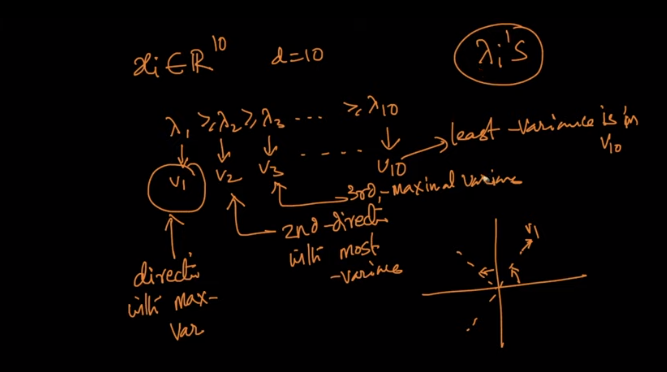


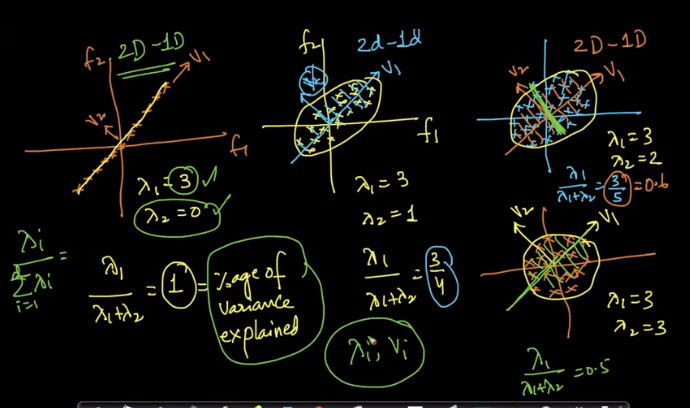












**Eigen values and Eigen vectors explaination**

<https://www.youtube.com/watch?v=5UjQVJu89_Q&feature=youtu.be>

**Limitations of PCA**

