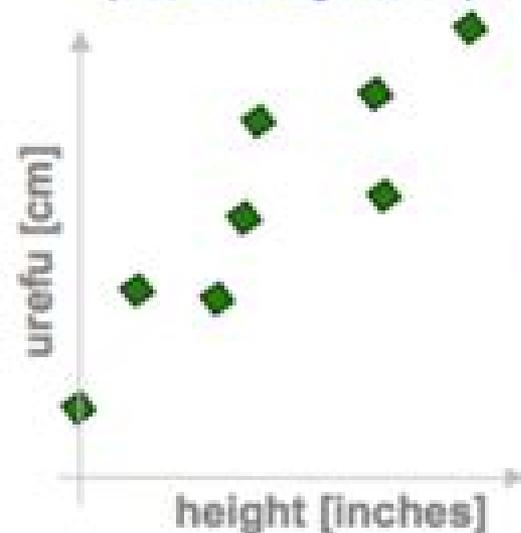


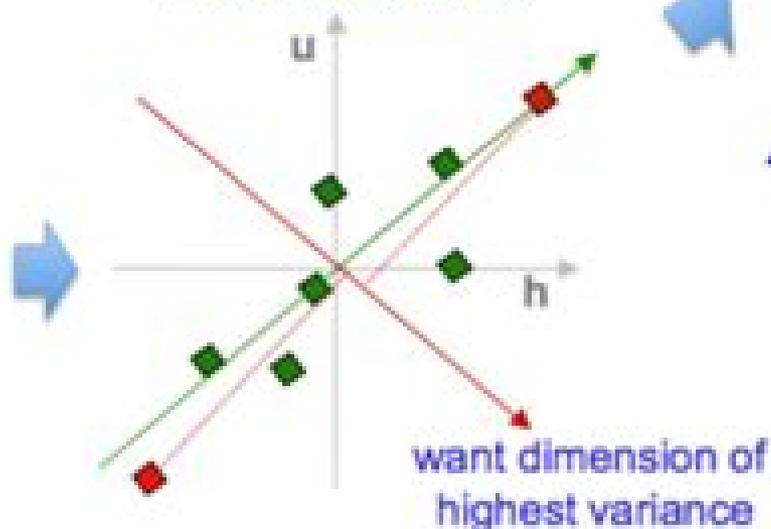
# PCA in a nutshell

## 1. correlated hi-d data

("urefu" means "height" in Swahili)



## 2. center the points



## 3. compute covariance matrix

$$\begin{matrix} & \begin{matrix} h & u \end{matrix} \\ \begin{matrix} h \\ u \end{matrix} & \begin{pmatrix} 2.0 & 0.8 \\ 0.8 & 0.6 \end{pmatrix} \end{matrix} \rightarrow \text{cov}(h,u) = \frac{1}{n} \sum_{i=1}^n h_i u_i$$

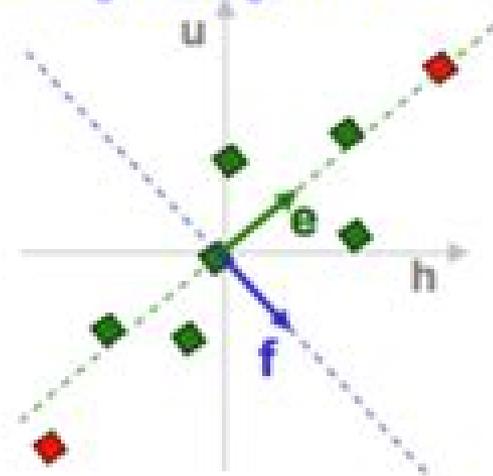
## 4. eigenvectors + eigenvalues

$$\begin{pmatrix} 2.0 & 0.8 \\ 0.8 & 0.6 \end{pmatrix} \begin{pmatrix} e_1 \\ e_2 \end{pmatrix} = \lambda_1 \begin{pmatrix} e_1 \\ e_2 \end{pmatrix}$$

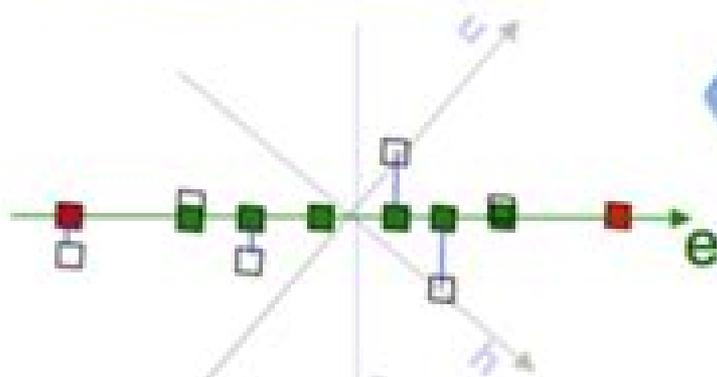
$$\begin{pmatrix} 2.0 & 0.8 \\ 0.8 & 0.6 \end{pmatrix} \begin{pmatrix} \ell_1 \\ \ell_2 \end{pmatrix} = \lambda_2 \begin{pmatrix} \ell_1 \\ \ell_2 \end{pmatrix}$$

`eig(cov(data))`

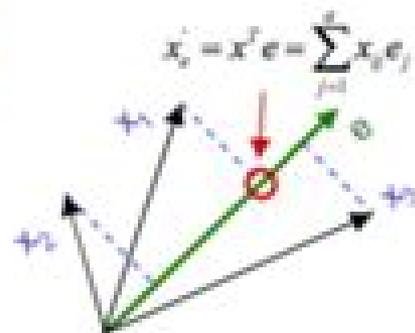
## 5. pick $m < d$ eigenvectors w. highest eigenvalues



## 7. uncorrelated low-d data



## 6. project data points to those eigenvectors



# Principal Components Analysis For Dummies

**Christian G. Meyer**



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