

Stańczyk and Matrix Decompositions

A Quick Taste of SVD, NMF, CUR

Course: Matrix Decompositions with R



Jan Matejko: *Stańczyk* (1862)

SVD — Singular Value Decomposition

SVD: $k = 4$



SVD: $k = 8$



SVD: $k = 16$

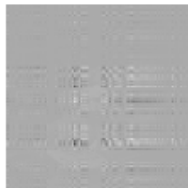


SVD: $k = 32$



CUR — Matrix Approximation

CUR: $k = 4$



CUR: $k = 8$



CUR: $k = 16$



CUR: $k = 32$



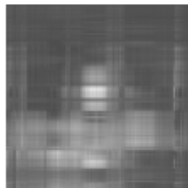
NMF — Nonnegative Matrix Factorization

NMF: $k = 4$

NMF: $k = 8$

NMF: $k = 16$

NMF: $k = 32$



Coming to your R console soon!
Starring: **SVD**, **NMF**, **CUR**
in the role of data approximations.
Grab your keyboard and join the show!