Stańczyk and Matrix Decompositions A Quick Taste of SVD, NMF, CUR

Course: Matrix Decompositions with R

Our Hero



Jan Matejko: Stańczyk (1862)

SVD — Singular Value Decomposition, Mathematically optimal... but still a bit dreamy.

SVD: k = 4

SVD: k = 8

SVD: k = 16

SVD: k = 32









CUR — Matrix Approximation, Fast and frugal... Stańczyk on a budget.

CUR: k = 4

CUR: k = 8

CUR: k = 16

CUR: k = 32









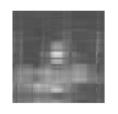
NMF — Nonnegative Matrix Factorization, Pieces of the puzzle... Stańczyk in parts.

NMF: k = 4

NMF: k = 8

NMF: k = 16

NMF: k = 32









Stay tuned...

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