

UNIVERSIDADE FEDERAL DE MINAS GERAIS INSTITUTO DE CIÊNCIAS EXATAS DEPARTAMENTO CIÊNCIA DA COMPUTAÇÃO

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Trabalho: Lista 02 Disciplina: ALC Turma: TZ

Belo Horizonte 2019

1) Jai que a matriz possui posto=1, suas colunas são mitiples uma dos cutras, logo:

2) (a)
$$B = \begin{bmatrix} 1,2 & 1 & -1 & -1,4 & \dots \\ -0,8 & -1 & 1 & 0,6 & \dots \\ 0,2 & ? & ? & 1,6 & \dots \\ -0,8 & ? & ? & -1,4 & \dots \\ 0,2 & 1 & 1 & 0,6 & \dots \\ \vdots & \vdots & \vdots & \vdots & \vdots & \vdots \end{bmatrix}$$

C)
$$U_{3,2}^{(c)} = \frac{1}{4} \times \frac{2}{3} \times \frac{2}{$$

Primeiro que a fatoração de matrizes rão-regativas (NMF) rão é possível alcançar valores exatos en tempo hábil. E segundo que esse metado parte do princípio ob inexistência de Números negativos para a fatoração, caso haja se torna uma Seni-NMF.

$$A_{K} = \begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix}$$
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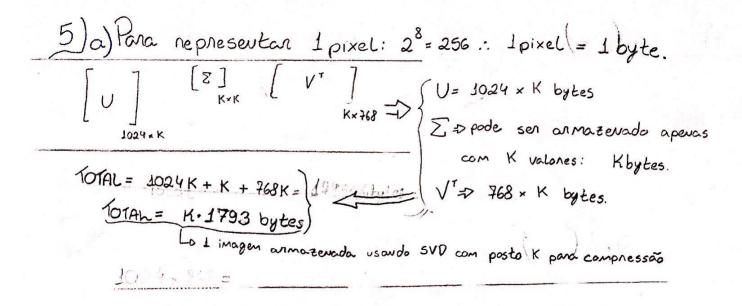
teorema do SVD pressupões que sua decomposição

O teorena do SVD pressupões que sua decomposição que gera Ak, e' a que possul meuon eno através de uma aproximação de A através da Norma de Froberius.

4)
$$\begin{pmatrix} 3 & 0 & 2 \\ 9 & 1 & 7 \\ 1 & 0 & 1 \end{pmatrix}$$
 a) Nonma-1: (13, 1, 10): $\|A\|_{1} = 13$

- b) Nonna-infinita: (5, 17, 2) : || All = 17
- c) Norma -2:

d) Norma Frobenius:
$$\sqrt{|3|^2 + |2|^2 + |9|^2 + |1|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |11|^2 + |$$



1024 x 768 = 786432 bytes -0 caso se annazeve direto

786432 > K·1793 452,23 > K

Ly Para valer a peva compressão, K deve ser igual a no máximo 452.

