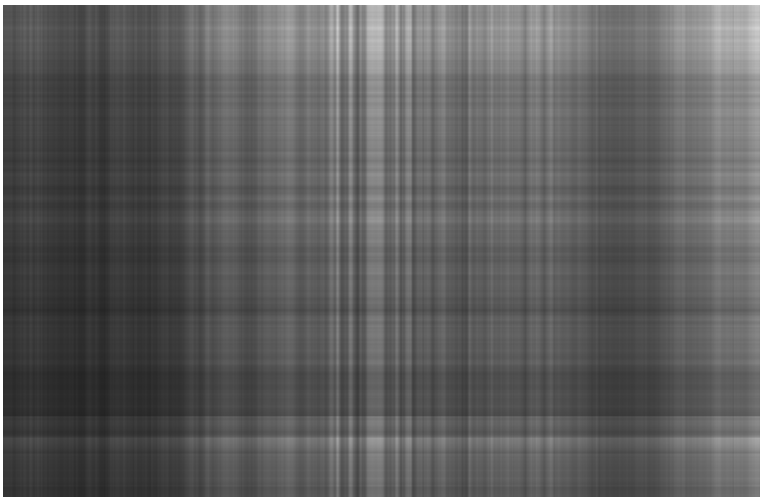
For example, take A_{100}:

A_k is also easier to store:

- If $k = 100$, then to store the matrix A_{100} we need the numbers $\sigma_1, \ldots, \sigma_{100}$, the vectors $\mathbf{u}_1, \ldots, \mathbf{u}_{100}$ and $\mathbf{v}_1, \ldots, \mathbf{v}_{100}$.
- That's
$$100 + 100(625) + 100(960) = 158600$$
numbers
- Compare to the original matrix which had
$$625 \cdot 960 = 600000$$
numbers.

We reduced the file size by a factor of four!



A_1