

The diagram illustrates a matrix approximation. On the left, a large blue square labeled \mathbf{Y} is approximately equal to a green rectangle labeled \mathbf{G} multiplied by a small yellow square labeled \mathbf{w} and a red rectangle labeled \mathbf{P}^T . On the right, the same blue square \mathbf{Y} is approximately equal to a function f_w applied to the sum of the green rectangle \mathbf{G} and a red rectangle labeled \mathbf{P} .

$$\mathbf{Y} \approx \mathbf{G} \mathbf{w} \mathbf{P}^T \qquad \mathbf{Y} \approx f_w(\mathbf{G} + \mathbf{P})$$