If the matrix A is diagonalizable,

$$TAT^{-1} = \Lambda = \mathrm{diag}\{\lambda_i\},\ i = 1, \ldots, n.$$

Now we demonstrate **gbfont**, **gifont**, and **grfont**.

$$\mathbf{a} \cdot \mathbf{b} = ||\mathbf{a}||\ ||\mathbf{b}|| \cos\theta$$

Recall the law of cosines.

$$c^2 = a^2 + b^2 - 2ab\ \cos\theta$$

If the last two examples look funky, it is because we are using Palatino roman, *Zapf Chancery medium italic,* and **Helvetica bold**.

Does **gfont** still work?

$$a^2 + b^2 = c^2$$

Therefore:

$$i^2 + 1^2 = 0^2$$

Enjoy the enhanced orthogonality in *eqn* primitives coming to a future *groff* near you!