\[ \mathcal{W} = \Lambda \mathcal{W} \mathcal{W} \]
and the other related matrix by
\[ \Lambda \mathcal{W} \mathcal{W} \Lambda = \mathcal{W} \mathcal{W} \mathcal{W} \]
Similarly, the normal matrix is given by
\[ \mathcal{W} \mathcal{W} \mathcal{W} = \mathcal{W} \mathcal{W} \mathcal{W} \]
and
\[ \Lambda \mathcal{W} \mathcal{W} \Lambda = \mathcal{W} \mathcal{W} \mathcal{W} \]
that the SVD of the resolution matrices is given by
With these definitions, it is now very easy to show

SVD and Resolution, Etc.