Performance Metrics

- If you are combining = need to increase with "better" models

- Transform metrics like RMSE that work in reverse

$$SSE = \frac{1}{n}\sum_{i=1}^{n}(m_i - o_i)^2$$

$L = (SSE)^{-n}$ where n is a shaping parameter
(Freer et al., (1997)

$L = \exp(-nSSE)$

$L = (\max(RMSE)-RMSE) / (\max(RMSE) - \min(RMSE)$

$$relErr = \frac{(\bar{m} - \bar{o})}{\bar{o}}$$

Transform to 0-1, and positive

mErr = 1.0 - min(1.0, abs(relErr))

mErr 1.0 - min(1.0,abs(relErr)/max(abs(relErr))

Combining

cperf = mErr * max(NSE, 0)

cperf = 0.75*mErr * 0.25*max(NSE,0)