

Tenney-Benedetti *harmonic distance*

Given a fraction in lowest terms, $\frac{num}{den}$

its harmonic distance is defined as the quantity $HD = \log_2(num \cdot den)$

— *John Cage and the Theory of Harmony* (1983) by James Tenney

If the fraction represents an interval between *two sounding notes*, HD may be interpreted musically as the pitch distance from their *common fundamental* to their *lowest common partial*.