

Average Relative Error = ARE

Synonym: [Average Relative Error \(ARE\)](#) = [Average Percentage Error \(APE\)](#)

[Statistical metric](#) characterizing the [model](#) prediction quality ([goodness of fit](#)) between the [datasets](#) of a given variable x and its [estimator](#) $\hat{x}$:

$$(1) \quad \text{ARE} = \frac{100}{N} \sum_{k=1}^N \frac{\hat{x}_k - x_k}{x_k}$$

See also

[Formal science](#) / [Mathematics](#) / [Statistics](#) / [Statistical Metric](#)

[Natural Science](#) / [System](#) / [Model](#)