



## NEW METRIC

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- There is currently no helpful rating metric.
- Strategy: combine helpful votes and helpful percentage.

## CAVEATS

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- Helpful Votes must be converted into numbers between 0 and 1.
- The Helpful Votes column is very right skewed.
- The final numbers should reflect meaningful percentages: 50% about average, 90% great.

# SKEWED\_TO\_LINEAR FUNCTION

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- Requirements: straight line function that avoids division by 0, Helpful Votes column, number of pivots.
- Pivots: percentiles spread across the data using logspace.
- Y-values: percentiles from the first pivot to the last.
- X-values: number of helpful votes associated with each percentile.
- Piecewise function: Adjacent (x,y) points are connected via a straight line.
- Results: All x-values receive percentile ranking from corresponding y-values on graph.
- Transformation: Helpful votes scaled between 0 and 1 with skewness intact.

*See full function and all relevant jupyter notebooks at [https://github.com/coreyjwade/Helpful\\_Reviews](https://github.com/coreyjwade/Helpful_Reviews).*