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- because distance is calculated on all attributes - irrelevant attributes are a problem - curse of dimensionality
- some approaches weight attributes to overcome this - stretching the Euclidean space
- alternatively eliminate the least relevant attributes

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- could locally stretch an axis...but more degrees of freedom...so more chance of overfitting...useful if problem space is not uniform...problem of over fitting
- much less common, but it is used in CBR
- efficient indexing of instances can be done with kd-trees (we'll discuss later)
- possible to pre-compute a position of each instance in the Euclidean space then simply position query in the space

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