- Human vocal range is ~50Hz to around 2756Hz
- At 44.1kHz, that means lags from 16 to 882 samples
- That's 229,097,525 multiple-adds per frame
- Auto-tune does this every 40 samples
- That's 252,465,472,550 mul-adds per second



Alternative Big O notation:

O(1) = O(yeah)

O(log n) = O(nice)

O(n) = O(ok)

 $O(n^2) = O(my)$

 $O(2^n) = O(no)$

O(n!) = O(mg!)

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How can we reduce these?