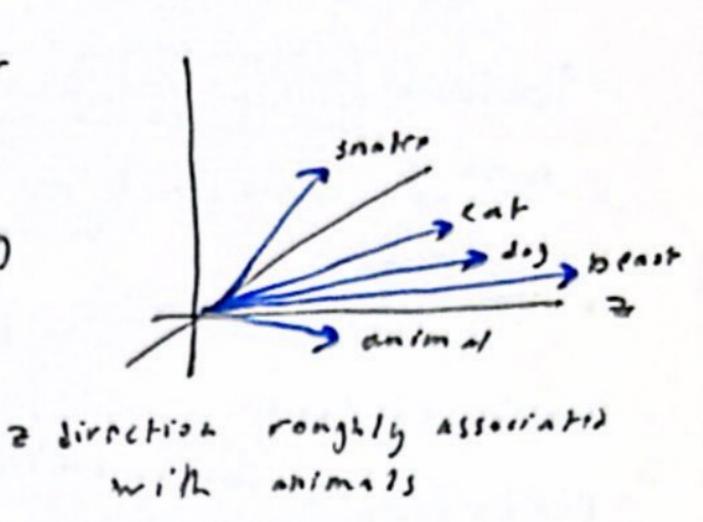
· Also since there are so many dimentions in Fraining the model can learn to associate Certian directions with classes Like for Ex one dimention can be associated with animals or planets. meaning they would be very close to rach offer and roughly in the same direction.



" The det product of the vectors tepersont how Close Mry are to each other the closer the are the positively larger the best product or 90° thry en o and at opposit they are hegetin and large. So we can nie best magnifule and sigh.

V. W = 3.7 V. W = 0 r.w. [v] · [v] · [v] V.W = -3.11 = V, W, + V2 W2 + Vh + Wh

. not lets say it your model you Se) E(cats) - E(ent) regenth a plurarity direction in this space, then you can compair Person product of that plurality vector with singular and plural words to see tracty how plural they are compared to others by secing how large there 2 of product is.

Jones (EX) Pluir = E(car) - E(cars) Plur. E(octopolos) = 2.30 } Plural
Plur. E(octopuses) = 1.67 } Worls
Office (octopuses) = 1.72 -3 + Plur. E(octopu) = -2.76 } plural

- · The specifics of how words are embedded and meaning is encoded is learned through training and is imposible to fully understand as 131000
- · Embeddings also encode info about the position of a word meaning the vector that represent moly change gebenging on the bosition of Wy mory Exthe smartert proson is they
 - . What started as the embedding for "Smartril" might get palled and tagget In This space by the Francher mer so its points on a direction that repersents intelligence and intelligent people and that its supposed to be a person this context is pulled from the suroundings

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