## HOW GPT3 WORKS (WITH PICS!)

general purpose: pass it text as input -> model outputs things it learned during its training period (this process has been completed, @ \$4.6 million).

uated E.g. objective: oils bara batuamos san

can tell you
the next word
tokens of text

GPT3

"a" "robot"

Use the "window technique" which "zooms out"
or adds a word to string of text

the window is also called the "context window". APT3's window is 2048 takens wide.

Eq/	Next word /
O second law	0 +
2 second law of	robotics
3 second law of robotics	
@ second law of robotics:	a
5 second law of robotics: a	robot

If GPTS gets the output wrong during this training, that's OK. We calculate the error & update the model. .. each new version of the model is more accurate than the last.

Note: when
we say
prediction"
we mean
matrix
manipulation.

i.e. "each successive set of training leads to

## GPT3 IS TRAINED

period (Hais process has been completed

GPTS is a massive language madel with this

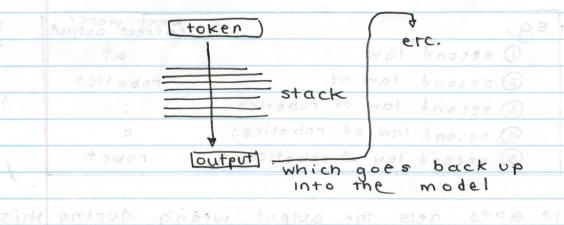
vector > computer prediction as vector
use computed prediction turnback into

It's called "deep learning" because there are many transformer decoder layers (deep!)

Also GPT3 (of course) uses self-attention,

particularly alternating dense- a sparse
attention layers.

Every taken goes through all layers in stack.



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