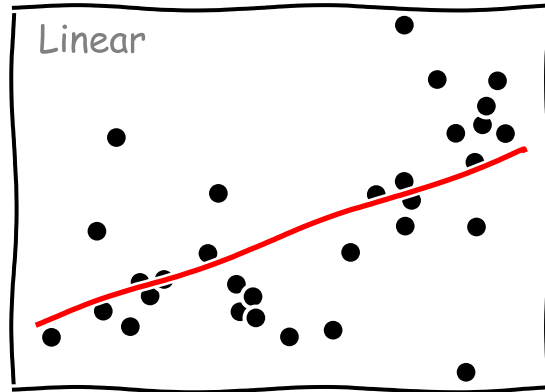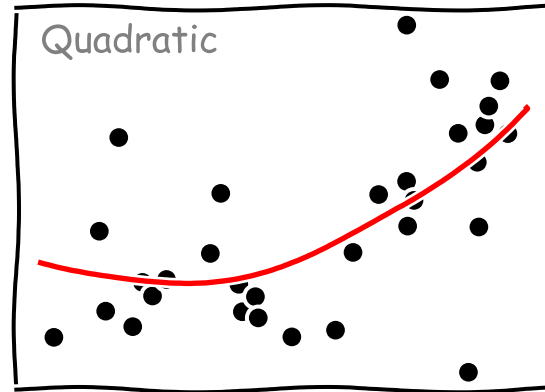# CURVE-FITTING METHODS AND THE MESSAGES THEY SEND
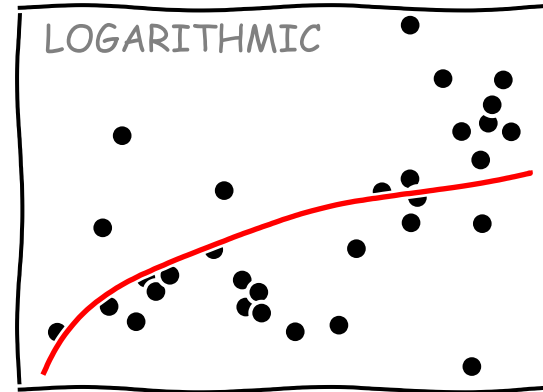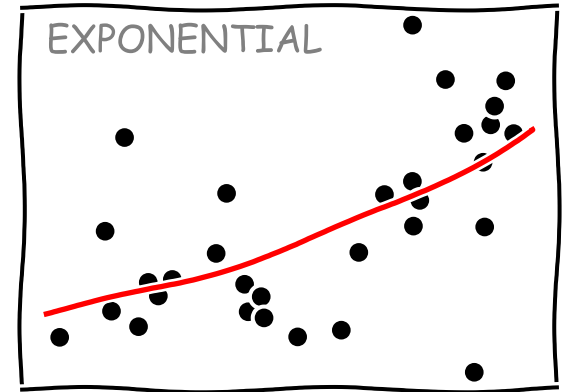

Linear

"HEY! I DID A REGRESSION."
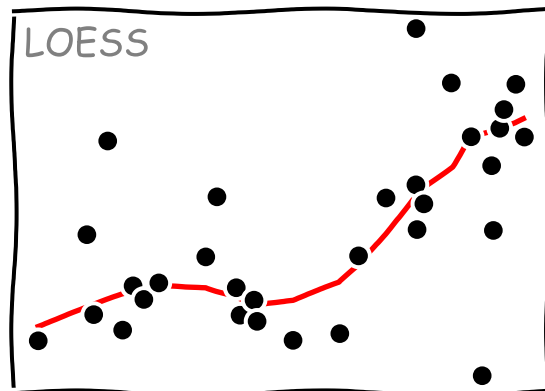
Quadratic

"I WANTED A CURVED LINE, SO A MADE ONE WITH MATH."
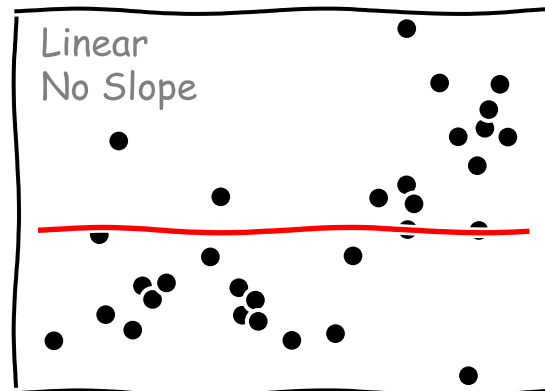
LOGARITHMIC

"LOOK, IT'S TAPPERING OFF"
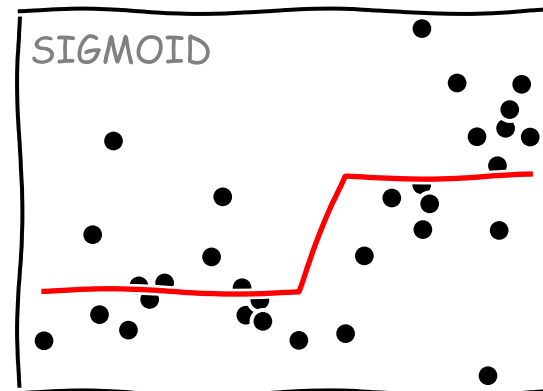
EXPONENTIAL

"LOOK, IT'S GROWING UNCONTROLLABLY"

LOESS

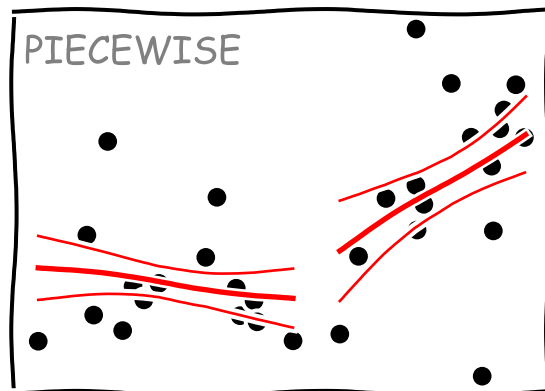"I'M SOPHISTICATED, NOT LIKE THOSE BUMBLING POLYNOMIAL PEOPLE."

Linear No Slope
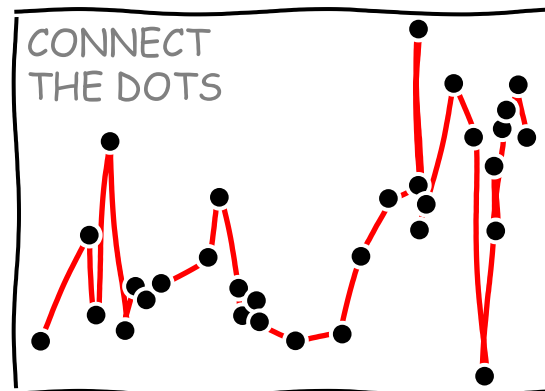
"I'M MAKING A SCATTER PLOT BUT I DON'T WANT TO"

SIGMOID

"I NEEDED TO CONNECT THESE TWO LINES."

95% Confidence Interval
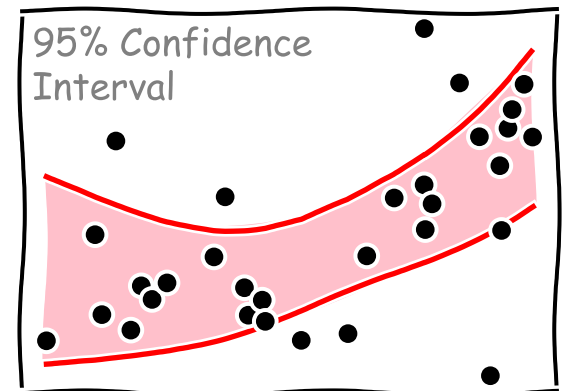
"LISTEN, SCIENCE IS HARD BUT I'M A SERIOUS PERSON DOING MY BEST."

PIECEWISE

"NOW I JUST NEED TO RENORMALIZE THE DATA."

CONNECT THE DOTS

"REGRESSION?! JUST USE THE DEFAULT PLOTTING."

Elephant
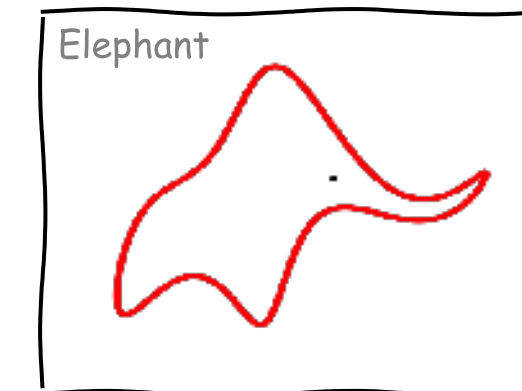
"AND WITH FIVE PARAMETERS I CAN MAKE ITS TRUNK WIGGLE."

House of Cards
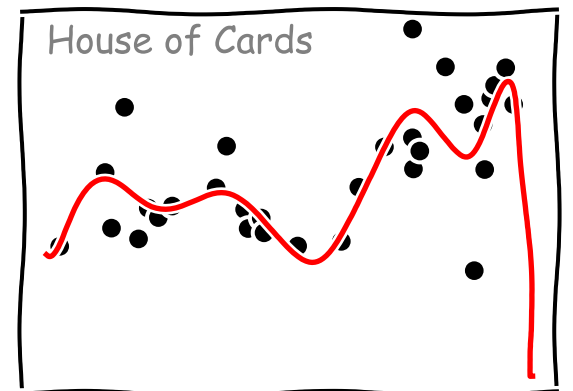
"AS YOU CAN SEE, THIS MODEL SMOOTHLY FITS THE --- NO NO WAIT DON'T EXTEND IT AAAAA!"

by Douglas Higinbotham in Python inspired by https://xkcd.com/2048