Why deep networks work: deep network is computing face pic youp edges to make fratury Hey dats maybe featine regnize or our boi drake or face detector detect faces Cpart of faces > audio vecognition basic low level > Words -Sentine audio war Phage phonem Circuit thory: There are fins you can compute with a 'small' C-layer Network xor x2 xor x3 xor x4 -- Xn hidden units to comput that Shalloner networks shallow N deep N XI - Bx po. larg - basically, to compute the xors, a shallower networks would to compute expo. larger computations.