History of NLP Neutral Nets. These techniques no longer used in 2023.

|  |
| --- |
| Motivation: why learn history? New techniques tend to pluck old ideas and reassemble them.  From RNNS to Convolutional Neural Nets   * Problem. RNNS can’t capture phrases without prefix context and captures too much of the last words of the vector and softmax for word prediction usually calculated based on the last step. * Until 2021, all vision used CNNs. * Techniques   + Convolution is a mask that looks for features in an image   + Max pooling: regardless of a variable output size, you can clip it to a fixed sized   + Dilation: |
| Our growing toolkit for NLP |
| Layer normalization vs. Batch normalization used to make model insensitive to initialization |