

Programming Assignment 5

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Memory Calculation

$$\begin{aligned} 500000 \times 300 \times 8 &= 1.2 \times 10^9 \text{ bytes} \\ &\approx 1144 \text{ megabytes, if assuming } 1 \text{ megabyte} = 2^{20} \text{ bytes} \\ &= 1200 \text{ megabytes, if assuming } 1 \text{ megabyte} = 10^6 \text{ bytes} \end{aligned}$$

Loss and Accuracy Plot

Final epoch: train accuracy 0.89400, test accuracy= 0.84206, Loss= 0.257397.



Figure 1: Loss and accuracy

Word Vectors Visualization

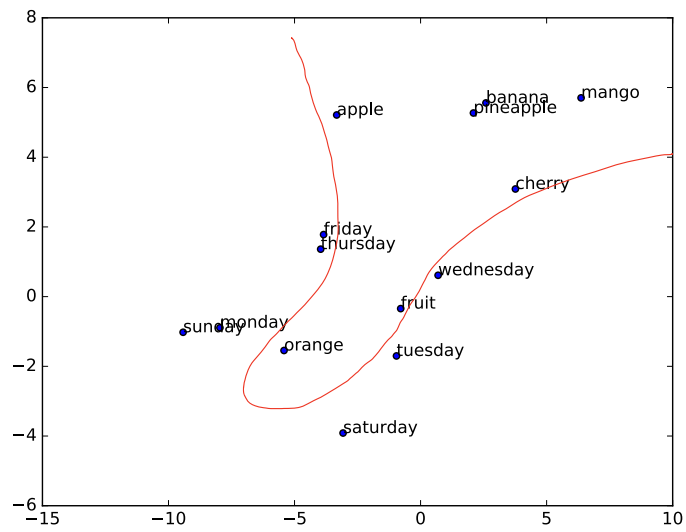


Figure 2: Word Vectors Visualization. Separable by a 4th degree polynomial transform.