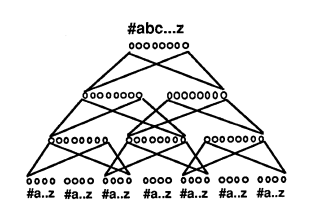
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Computational Models of Cognition, Spring 16

**Pittman’s context character identification network**



Pittman uses a network that tries to predict the identity of the character based on the probabilities of the identities of surrounding characters. We wish to use the output of our character identification network (based on pixel values) to act as input to our neural network which will identify a given character.

This means we’ll need two types of neural networks: the context network illustrated above, and a standard pixel values to character identity network similar to the network implemented in homework 6. We will need a dictionary of words to train the context network on, and letters with their pixel values to train the character network on.

The final network will output a character identity based on pixel values as well as surrounding context.