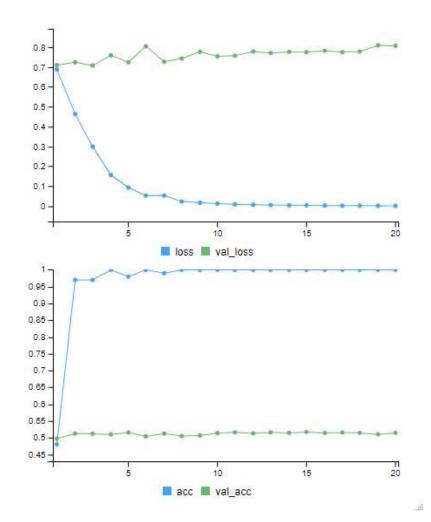
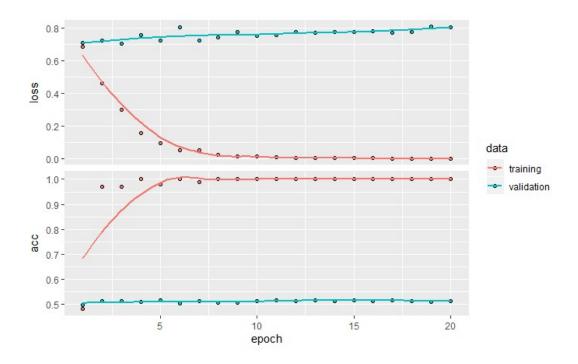
```
Run 1 = dict {
'word limit': 150,
'train samples': 100,
'validation samples': 10000,
'top words': 10000 }
```

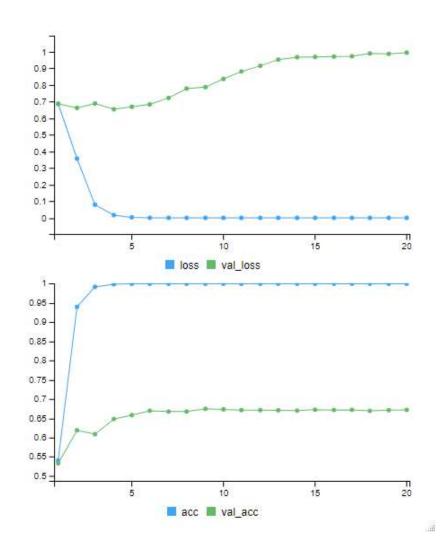


150 per review limit allows for more sentiment detail to be captured but limiting training data to just 100 samples proves the demise of this model.

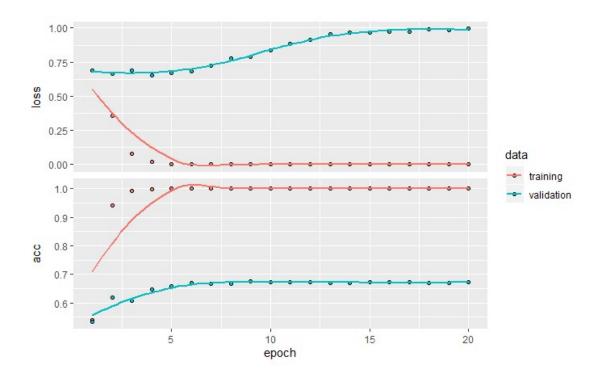


Task-specific embedding layer $\frac{100}{100}$ samples, sadly producing a $\frac{53\%}{100}$ accuracy on the final test data.

```
Run 2 = dict {
'word limit': 150,
'train samples': 1000,
'validation samples': 10000,
'top words': 10000 }
```



While the edited model still overfit relatively quickly, the validation accuracy was able to flatline around 0.65 versus the first run at 0.5.



At **1000** samples (10% of the validation samples), the task-specific "learn-as-you-go" embedding model exceeds the accuracy of the pre-trained model. The graph illustrates the accuracy of the former.

Final Notes

While the custom-trained embedding layer improved over the pre-trained one, the improvement isn't much. Embedding that learns the specific model will always do better than one pre-trained on different data, but a much larger training sample size is needed to reap these benefits.