**Problem Statement**

- Our goal is to recreate a popular movie script generator.
- We strive to improve the current model - through corpus manipulation and changing the training parameters - and to develop evaluation strategies without subjective human evaluation.

**Overview**

- Used a RNN model to recreate Ross Goodwin’s movie script generator, who used work from Andrej Karpathy’s char-rnn to train a model on science fiction movie scripts.
- Torch-rnn – a character based model – allowed us to create several untrained models.
- Our training data consisted of the IMSDb collection of comedy scripts totaling 347 movie scripts.
- A second goal focused on improving the model through data manipulation and changing the training parameters. We created multiple untrained models in order to train them differently.

**Data Manipulation**

- To improve the production of a plot line, we sectioned the training scripts into tenths and labelled them.

  tenth_1 M1
tenth_1 I can't believe you
...
tenth_10 M1
tenth_10 When Joe died all those years ago...

**Training Parameters**

- batch size: the # of streams of data that are processed in parallel
- dropout rate: forces the model to learn multiple representations of the same data

**Sampling Parameter**

- temperature: determines the riskiness of the model

**Evaluation**

- For our evaluation, we wanted to use a numerical calculatable measurement opposed to subjective human evaluation. We considered the following areas for evaluation: grammar, spelling, the number of characters, the frequency of a character’s dialogue, the number of characters involved in a conversation, the coherency of the plot, creativity, etc. With limited time, we chose to focus on the number of characters and the frequency of a character’s dialogue.

**Script by Ross Goodwin**

H (CONT'D)

It may never be forgiven, but that is just too bad. I have to leave, but I’m not free of the world.

C

Yes. Perhaps I should take it from here. I’m not going to do something.

H

You can’t afford to take this anywhere. It’s not a dream. But I’ve got time to stay there.

Shot with real Hollywood stars!