Learning Humor with Regard to Internet Memes

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Project Overview

- Train neural network to determine what features make an Internet meme funny
- Implement these features into an auto-captioning neural network in order to generate memes from uncaptioned images

Why this Project is Useful:

- Make interactions between machines & humans more natural
  - Computational Humor
- For users of image-sharing apps like Snapchat and Instagram
- For Content Creators or Companies promoting through Social Media

Why Machine Learning Techniques are Appropriate:

- Large datasets pulled from online sources
- Highly abstract and complicated patterns need to be developed

Data Access

- Have already pulled 100,000 meme image files from 9gag
- Have obtained access to Reddit data but have not pulled yet

Possible Approach

- Neural Network Auto-Captioner + Humor
  - Step 1: Extract image, text pairs of highly and poorly ranked memes from dataset.
  - Step 2: Train a CNN + RNN architecture designed for auto-captioning on these items
  - Step 3: Apply the trained system on new images; Turing test by posting new memes online