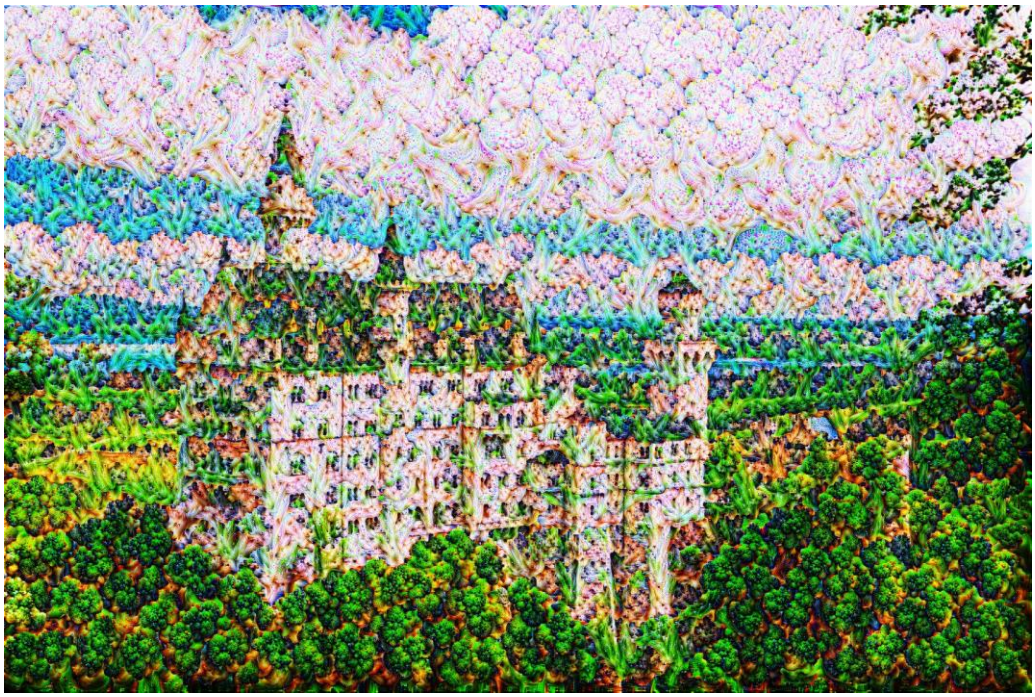
Week 10 Report

DeepDream Changes

Following from the blog feature visualization we focused on the regularization families this week. We first tried different **frequency penalizations** including l1 and l2 regularization. Secondly, from the **transformation robustness** we applied deep dream at different scales of a input image so that it not only reduced high frequency noises but also preserved image in high resolution. We also tried out different losses(mean, norm) and found out the combination of mean + l2 norm performed the best.

Improvement of DeepDream Images this week



DeepDream Images last week (same layer and same filter)

L1 norm didnt perform well