

Today: Outline

- **Project**
- **Breakout Sessions**
- **SCC Tutorial**
- **Reminder:**
 - Exam *Jun 22 in class*
(and ~12 hrs before for remote only students)
- **Announcements:**
 - Prelec Material 5 posted, *due Mon Jun 14*
 - Problem Set 1 scores published on Gradescope
(*regrade requests can be submitted until Mon Jun 14*)



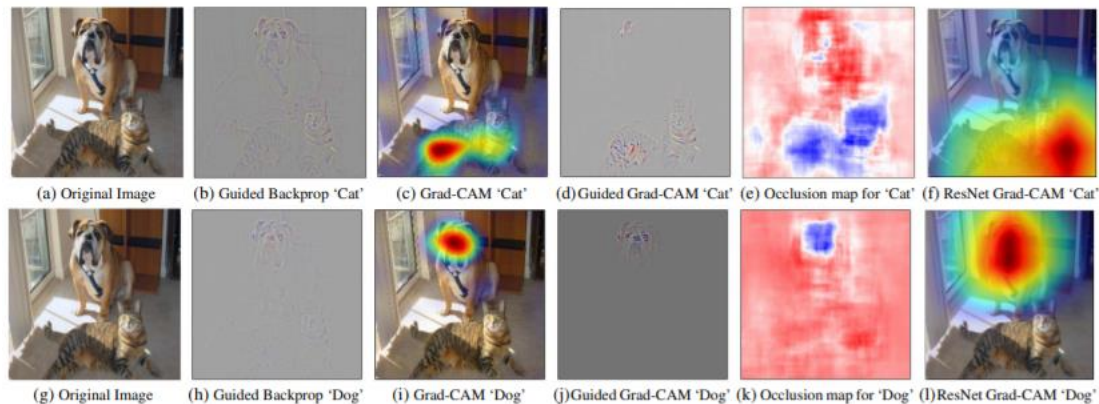
Projects

Sample Project Topics

- Reproducing results of a research paper.

Example: Grad-CAM

[link](#)



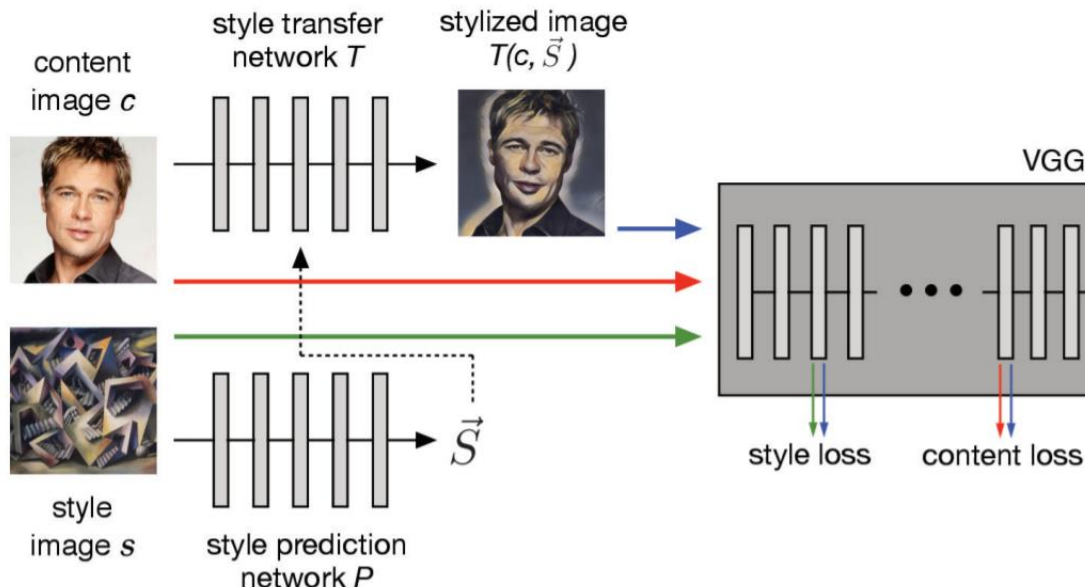
Method	Top-1 loc error	Top-5 loc error	Top-1 cls error	Top-5 cls error
Backprop on VGG-16 [40]	61.12	51.46	30.38	10.89
c-MWP on VGG-16 [46]	70.92	63.04	30.38	10.89
Grad-CAM on VGG-16 (ours)	56.51	46.41	30.38	10.89
VGG-16-GAP (CAM) [47]	57.20	45.14	33.40	12.20

Sample Project Topics

- Style transfer: Manipulate celebrity face images using a style transfer model

Example Dataset: *celebA dataset*

<https://arxiv.org/pdf/1705.06830.pdf>



Sample Project Topics

- Facial Expression / Emotion Recognition
Example Dataset: FER
- Measuring Student Engagement
Example Dataset: DAiSEE
- Image Captioning
Example Dataset: COCO
- Crowdsourcing and Semantic segmentation of recycling data for autonomous waste sorting
Example Dataset: ZeroWaste

These are only sample ideas, we are open to additional project ideas too!

Teams and Feedback

- Teams of 2

Team Registration Deadline: Mon Jun 14

One team member will send a private message on Piazza to register the team.

- Please make sure you use office hrs to get feedback on your projects.

Deliverables and Timeline

- *Project Presentations:*
Slides that summarize your project idea, implementation, and results

Deadline: In class Jun 29, Jun 30, Jul 1

- *Github Page*
Containing the code, link to the slides, and reference paper(s)

Deadline for Github page submission: Jul 2

SCC

- Quickstart Guide

<http://www.bu.edu/tech/support/research/system-usage/scc-quickstart/>

Please let me know today if you do not have access to the SCC