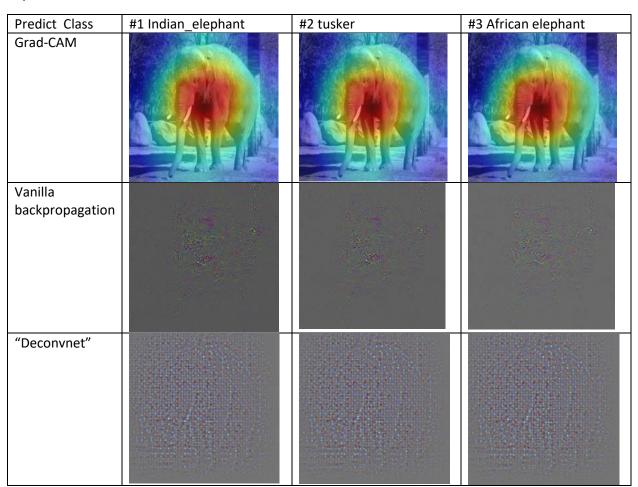
Task 2:

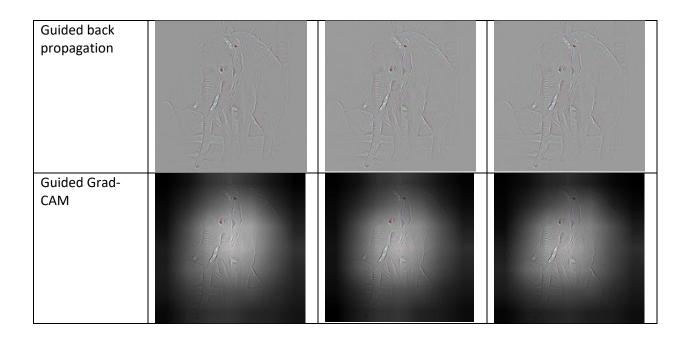
In this task, I'm reproducing the Demo1 and Demo2 of the Grad-CAM: Visual Explanations from Deep Network via Gradient-based Localization with another image.

Original Image:



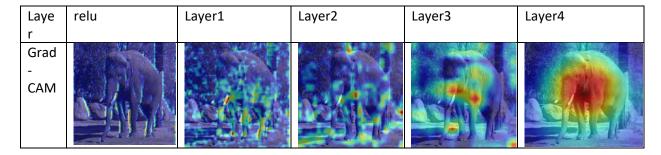
Reproduce Demo1:



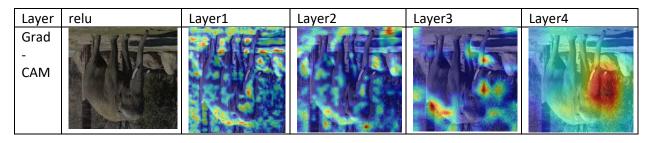


Reproduce Demo2

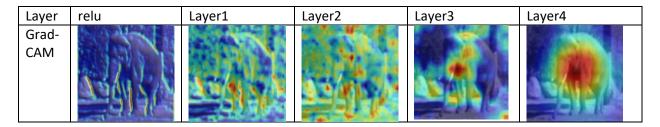
Generate Grad-CAM maps for "Indian elephant" (Class Index 385) class, at different layers of ResNet-152.



Turn the image upside down:



Blurred with Guassian filter:



The attention map is still accurate with Gaussian filter and rotation.

References:

[1] Kazuto Nakashima, Available: kazuto1011/grad-cam-pytorch: PyTorch implementation of Grad-CAM, vanilla/guided backpropagation, deconvnet, and occlusion sensitivity maps (github.com)