

DeepImagePrior

December 5, 2022

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[34]: import torch
import torch.nn as nn
from torch.autograd import Variable
import torch.nn.functional as F
import torchvision
from PIL import Image
import matplotlib.pyplot as plt
from tqdm.notebook import tqdm

#Define an encoder decoder network with pixel shuffle upsampling
class PixelShuffleHourglass(nn.Module):
    def __init__(self):
        super(PixelShuffleHourglass, self).__init__()
        self.d_conv_1 = nn.Conv2d(3, 8, 5, stride=2, padding=2)
        self.d_bn_1 = nn.BatchNorm2d(8)

        self.d_conv_2 = nn.Conv2d(8, 16, 5, stride=2, padding=2)
        self.d_bn_2 = nn.BatchNorm2d(16)

        self.d_conv_3 = nn.Conv2d(16, 32, 5, stride=2, padding=2)
        self.d_bn_3 = nn.BatchNorm2d(32)
        self.s_conv_3 = nn.Conv2d(32, 4, 5, stride=1, padding=2)

        self.d_conv_4 = nn.Conv2d(32, 64, 5, stride=2, padding=2)
        self.d_bn_4 = nn.BatchNorm2d(64)
        self.s_conv_4 = nn.Conv2d(64, 4, 5, stride=1, padding=2)

        self.d_conv_5 = nn.Conv2d(64, 128, 5, stride=2, padding=2)
        self.d_bn_5 = nn.BatchNorm2d(128)
        self.s_conv_5 = nn.Conv2d(128, 4, 5, stride=1, padding=2)

        self.d_conv_6 = nn.Conv2d(128, 256, 5, stride=2, padding=2)
        self.d_bn_6 = nn.BatchNorm2d(256)

        self.u_conv_5 = nn.Conv2d(68, 128, 5, stride=1, padding=2)
        self.u_bn_5 = nn.BatchNorm2d(128)
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self.u_conv_4 = nn.Conv2d(36, 64, 5, stride=1, padding=2)
self.u_bn_4 = nn.BatchNorm2d(64)

self.u_conv_3 = nn.Conv2d(20, 32, 5, stride=1, padding=2)
self.u_bn_3 = nn.BatchNorm2d(32)

self.u_conv_2 = nn.Conv2d(8, 16, 5, stride=1, padding=2)
self.u_bn_2 = nn.BatchNorm2d(16)

self.u_conv_1 = nn.Conv2d(4, 16, 5, stride=1, padding=2)
self.u_bn_1 = nn.BatchNorm2d(16)

self.out_conv = nn.Conv2d(4, 3, 5, stride=1, padding=2)
self.out_bn = nn.BatchNorm2d(3)

def forward(self, noise):
    down_1 = self.d_conv_1(noise)
    down_1 = self.d_bn_1(down_1)
    down_1 = F.leaky_relu(down_1)

    down_2 = self.d_conv_2(down_1)
    down_2 = self.d_bn_2(down_2)
    down_2 = F.leaky_relu(down_2)

    down_3 = self.d_conv_3(down_2)
    down_3 = self.d_bn_3(down_3)
    down_3 = F.leaky_relu(down_3)
    skip_3 = self.s_conv_3(down_3)

    down_4 = self.d_conv_4(down_3)
    down_4 = self.d_bn_4(down_4)
    down_4 = F.leaky_relu(down_4)
    skip_4 = self.s_conv_4(down_4)

    down_5 = self.d_conv_5(down_4)
    down_5 = self.d_bn_5(down_5)
    down_5 = F.leaky_relu(down_5)
    skip_5 = self.s_conv_5(down_5)

    down_6 = self.d_conv_6(down_5)
    down_6 = self.d_bn_6(down_6)
    down_6 = F.leaky_relu(down_6)

    up_5 = F.pixel_shuffle(down_6, 2)
    up_5 = torch.cat([up_5, skip_5], 1)
    up_5 = self.u_conv_5(up_5)

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up_5 = self.u_bn_5(up_5)
up_5 = F.leaky_relu(up_5)

up_4 = F.pixel_shuffle(up_5, 2)
up_4 = torch.cat([up_4, skip_4], 1)
up_4 = self.u_conv_4(up_4)
up_4 = self.u_bn_4(up_4)
up_4 = F.leaky_relu(up_4)

up_3 = F.pixel_shuffle(up_4, 2)
up_3 = torch.cat([up_3, skip_3], 1)
up_3 = self.u_conv_3(up_3)
up_3 = self.u_bn_3(up_3)
up_3 = F.leaky_relu(up_3)

up_2 = F.pixel_shuffle(up_3, 2)
up_2 = self.u_conv_2(up_2)
up_2 = self.u_bn_2(up_2)
up_2 = F.leaky_relu(up_2)

up_1 = F.pixel_shuffle(up_2, 2)
up_1 = self.u_conv_1(up_1)
up_1 = self.u_bn_1(up_1)
up_1 = F.leaky_relu(up_1)

out = F.pixel_shuffle(up_1, 2)
out = self.out_conv(out)
out = self.out_bn(out)
out = F.sigmoid(out)
return out

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#Define an encoder decoder network with convolution transpose upsampling.

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class DeconvHourglass(nn.Module):
    def __init__(self):
        super(DeconvHourglass, self).__init__()
        self.d_conv_1 = nn.Conv2d(3, 8, 5, stride=2, padding=2)
        self.d_bn_1 = nn.BatchNorm2d(8)

        self.d_conv_2 = nn.Conv2d(8, 16, 5, stride=2, padding=2)
        self.d_bn_2 = nn.BatchNorm2d(16)

        self.d_conv_3 = nn.Conv2d(16, 32, 5, stride=2, padding=2)
        self.d_bn_3 = nn.BatchNorm2d(32)
        self.s_conv_3 = nn.Conv2d(32, 4, 5, stride=1, padding=2)

        self.d_conv_4 = nn.Conv2d(32, 64, 5, stride=2, padding=2)
        self.d_bn_4 = nn.BatchNorm2d(64)

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self.s_conv_4 = nn.Conv2d(64, 4, 5, stride=1, padding=2)

self.d_conv_5 = nn.Conv2d(64, 128, 5, stride=2, padding=2)
self.d_bn_5 = nn.BatchNorm2d(128)
self.s_conv_5 = nn.Conv2d(128, 4, 5, stride=1, padding=2)

self.d_conv_6 = nn.Conv2d(128, 256, 5, stride=2, padding=2)
self.d_bn_6 = nn.BatchNorm2d(256)

self.u_deconv_5 = nn.ConvTranspose2d(256, 124, 4, stride=2, padding=1)
self.u_bn_5 = nn.BatchNorm2d(128)

self.u_deconv_4 = nn.ConvTranspose2d(128, 60, 4, stride=2, padding=1)
self.u_bn_4 = nn.BatchNorm2d(64)

self.u_deconv_3 = nn.ConvTranspose2d(64, 28, 4, stride=2, padding=1)
self.u_bn_3 = nn.BatchNorm2d(32)

self.u_deconv_2 = nn.ConvTranspose2d(32, 16, 4, stride=2, padding=1)
self.u_bn_2 = nn.BatchNorm2d(16)

self.u_deconv_1 = nn.ConvTranspose2d(16, 8, 4, stride=2, padding=1)
self.u_bn_1 = nn.BatchNorm2d(8)

self.out_deconv = nn.ConvTranspose2d(8, 3, 4, stride=2, padding=1)
self.out_bn = nn.BatchNorm2d(3)

def forward(self, noise):
    down_1 = self.d_conv_1(noise)
    down_1 = self.d_bn_1(down_1)
    down_1 = F.leaky_relu(down_1)

    down_2 = self.d_conv_2(down_1)
    down_2 = self.d_bn_2(down_2)
    down_2 = F.leaky_relu(down_2)

    down_3 = self.d_conv_3(down_2)
    down_3 = self.d_bn_3(down_3)
    down_3 = F.leaky_relu(down_3)
    skip_3 = self.s_conv_3(down_3)

    down_4 = self.d_conv_4(down_3)
    down_4 = self.d_bn_4(down_4)
    down_4 = F.leaky_relu(down_4)
    skip_4 = self.s_conv_4(down_4)

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down_5 = self.d_conv_5(down_4)
down_5 = self.d_bn_5(down_5)
down_5 = F.leaky_relu(down_5)
skip_5 = self.s_conv_5(down_5)

down_6 = self.d_conv_6(down_5)
down_6 = self.d_bn_6(down_6)
down_6 = F.leaky_relu(down_6)

up_5 = self.u_deconv_5(down_6)
up_5 = torch.cat([up_5, skip_5], 1)
up_5 = self.u_bn_5(up_5)
up_5 = F.leaky_relu(up_5)

up_4 = self.u_deconv_4(up_5)
up_4 = torch.cat([up_4, skip_4], 1)
up_4 = self.u_bn_4(up_4)
up_4 = F.leaky_relu(up_4)

up_3 = self.u_deconv_3(up_4)
up_3 = torch.cat([up_3, skip_3], 1)
up_3 = self.u_bn_3(up_3)
up_3 = F.leaky_relu(up_3)

up_2 = self.u_deconv_2(up_3)
up_2 = self.u_bn_2(up_2)
up_2 = F.leaky_relu(up_2)

up_1 = self.u_deconv_1(up_2)
up_1 = self.u_bn_1(up_1)
up_1 = F.leaky_relu(up_1)

out = self.out_deconv(up_1)
out = self.out_bn(out)
out = F.sigmoid(out)

return out

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#use cuda, or not? be prepared for a long wait if you don't have cuda_
→capabilities.

`use_cuda = True`

#input image.

`groundTruth = 'lena.png'`

#proportion of pixels to black out.

`prop = 0.5`

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#standard deviation of added noise after each training set
sigma = 1./30

#number of training iterations
num_steps = 4001

#number of steps to take before saving an output image
save_frequency = 250

#where to put the output
output_name = ''

#choose either 'pixel_shuffle' or 'deconv' as the architecture used.
method = 'deconv'

#accept a file path to a png, return a torch tensor
def pngToTensor(filepath=groundTruth):
    pil = Image.open(groundTruth)
    pil_to_tensor = torchvision.transforms.Compose([torchvision.transforms.
    ↳ToTensor()])
    if use_cuda:
        tensor = pil_to_tensor(pil).cuda()
    else:
        tensor = pil_to_tensor(pil)
    return tensor.view([1]+list(tensor.shape))

#accept a torch tensor, convert it to a jpg at a certain path
def tensorToPng(tensor, filename, error):
    tensor = tensor.view(tensor.shape[1:])
    if use_cuda:
        tensor = tensor.cpu()
    tensor_to_pil = torchvision.transforms.Compose([torchvision.transforms.
    ↳ToPILImage()])
    pil = tensor_to_pil(tensor)
    if error == 0:
        plt.imshow(pil, cmap='gray')
        plt.show()
    else:
        plt.imshow(pil, cmap='gray')
        plt.title('Squared Error{:.4f}'.format(error))
        plt.show()
    plt.savefig(filename)

#function which zeros out a random proportion of pixels from an image tensor.
def zeroOutPixels(tensor, prop=prop):
    if use_cuda:

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        mask = torch.rand([1]+[1] + list(tensor.shape[2:])).cuda()
    else:
        mask = torch.rand([1]+[1] + list(tensor.shape[2:]))
    mask[mask<prop] = 0
    mask[mask!=0] = 1
    mask = mask.repeat(1,3,1,1)
    deconstructed = tensor * mask
    return mask, deconstructed

if __name__=='__main__':
    #import image
    truth = pngToTensor(groundTruth)
    #deconstruct image
    mask, deconstructed = zeroOutPixels(truth)
    #save the deconstructed image
    tensorToPng(deconstructed, 'deconstructed.png', 0)
    #convert the image and mask to variables.
    mask = Variable(mask)
    deconstructed = Variable(deconstructed)

    #input of the network is noise
    if use_cuda:
        noise = Variable(torch.randn(deconstructed.shape).cuda())
    else:
        noise = Variable(torch.randn(deconstructed.shape))

    #initialise the network with the chosen architecture
    if method=='pixel_shuffle':
        net = PixelShuffleHourglass()
    elif method=='deconv':
        net = DeconvHourglass()

    #bind the network to the gpu if cuda is enabled
    if use_cuda:
        net.cuda()
    #network optimizer set up
    optimizer = torch.optim.Adam(net.parameters(), lr=1e-2)

    #dummy index to provide names to output files
    saveImgIndex = 0
    for step in range(num_steps):
        #get the network output
        output = net(noise)
        #we are only concerned with the output where we have the image
        ↪available.
        maskedOutput = output * mask

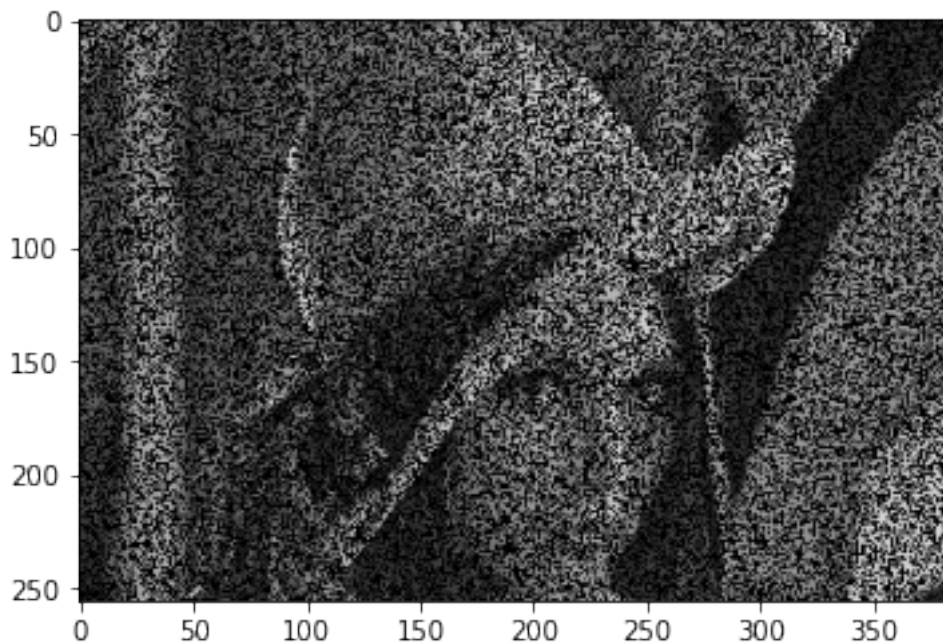
```

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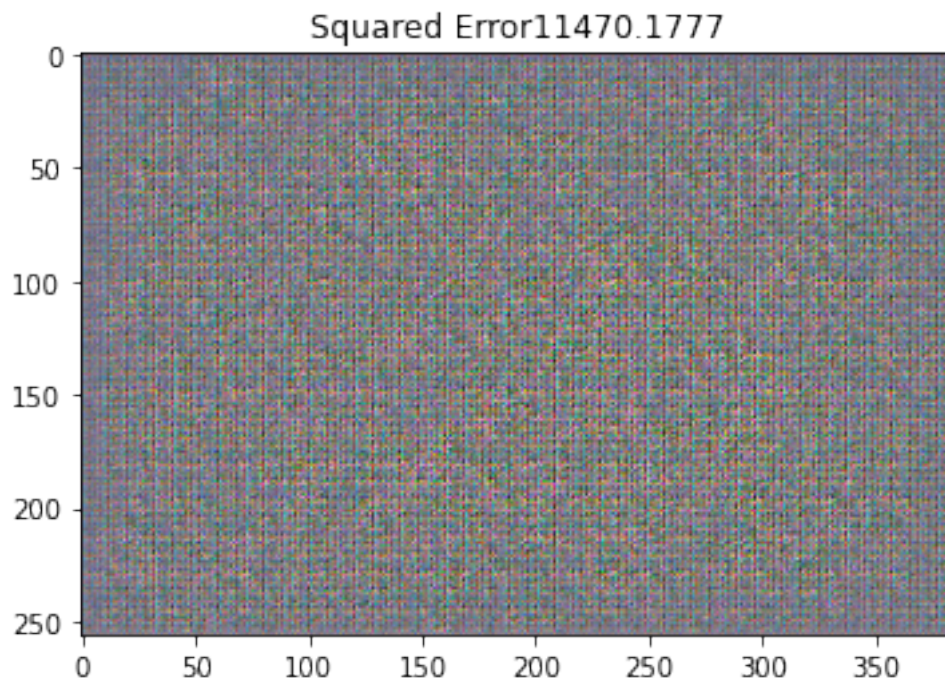
# calculate the l2_loss over the masked output and take an optimizer
→step
optimizer.zero_grad()
loss = torch.sum((maskedOutput - deconstructed)**2)
loss.backward()
optimizer.step()
print('At step {}, loss is {}'.format(step, loss.data.cpu()))
#every save_frequency steps, save a jpg
if step % save_frequency == 0:
    tensorToPng(output.data,output_name+'_{}.png'.format(saveImgIndex),
→loss)
    saveImgIndex += 1
if use_cuda:
    noise.data += sigma * torch.randn(noise.shape).cuda()
else:
    noise.data += sigma * torch.randn(noise.shape)

#clean up any mess we're leaving on the gpu
if use_cuda:
    torch.cuda.empty_cache()

```



At step 0, loss is 11470.177734375



At step 1, loss is 8436.6806640625
At step 2, loss is 6590.40625
At step 3, loss is 5994.57666015625
At step 4, loss is 5651.484375
At step 5, loss is 5442.791015625
At step 6, loss is 5313.7021484375
At step 7, loss is 5193.73046875
At step 8, loss is 5107.07568359375
At step 9, loss is 5022.93359375
At step 10, loss is 4937.939453125
At step 11, loss is 4878.5234375
At step 12, loss is 4813.36181640625
At step 13, loss is 4770.9931640625
At step 14, loss is 4733.2001953125
At step 15, loss is 4692.27978515625
At step 16, loss is 4648.66796875
At step 17, loss is 4608.3369140625
At step 18, loss is 4588.9248046875
At step 19, loss is 4575.37255859375
At step 20, loss is 4558.67333984375
At step 21, loss is 4542.87109375
At step 22, loss is 4531.8095703125
At step 23, loss is 4523.2998046875
At step 24, loss is 4512.8623046875
At step 25, loss is 4501.42578125

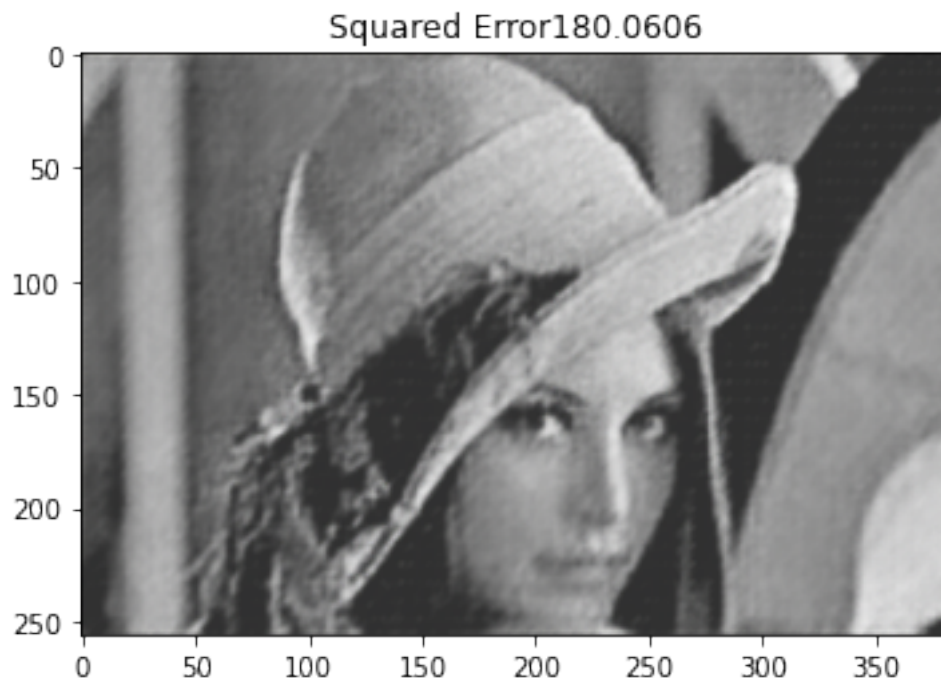
At step 26, loss is 4488.6416015625
At step 27, loss is 4470.4794921875
At step 28, loss is 4432.8154296875
At step 29, loss is 4365.2666015625
At step 30, loss is 4280.99560546875
At step 31, loss is 4192.05322265625
At step 32, loss is 4103.1904296875
At step 33, loss is 4017.73974609375
At step 34, loss is 3942.400390625
At step 35, loss is 3864.986328125
At step 36, loss is 3786.88818359375
At step 37, loss is 3721.185546875
At step 38, loss is 3650.741455078125
At step 39, loss is 3550.498046875
At step 40, loss is 3445.619384765625
At step 41, loss is 3358.129150390625
At step 42, loss is 3275.2841796875
At step 43, loss is 3196.453857421875
At step 44, loss is 3112.238037109375
At step 45, loss is 3010.37841796875
At step 46, loss is 2888.4072265625
At step 47, loss is 2764.84228515625
At step 48, loss is 2645.623291015625
At step 49, loss is 2510.343994140625
At step 50, loss is 2340.670166015625
At step 51, loss is 2142.505615234375
At step 52, loss is 1962.537353515625
At step 53, loss is 1816.34814453125
At step 54, loss is 1704.0146484375
At step 55, loss is 1594.4249267578125
At step 56, loss is 1490.5020751953125
At step 57, loss is 1394.272705078125
At step 58, loss is 1325.0880126953125
At step 59, loss is 1306.91943359375
At step 60, loss is 1212.242431640625
At step 61, loss is 1131.2440185546875
At step 62, loss is 1099.0135498046875
At step 63, loss is 1052.193359375
At step 64, loss is 1022.94189453125
At step 65, loss is 979.1819458007812
At step 66, loss is 940.98046875
At step 67, loss is 908.8350830078125
At step 68, loss is 869.5999755859375
At step 69, loss is 839.1526489257812
At step 70, loss is 811.648193359375
At step 71, loss is 778.5308837890625
At step 72, loss is 749.44775390625
At step 73, loss is 722.9443359375

At step 74, loss is 695.7608642578125
At step 75, loss is 676.6614379882812
At step 76, loss is 659.0201416015625
At step 77, loss is 644.7171630859375
At step 78, loss is 635.9677734375
At step 79, loss is 621.730712890625
At step 80, loss is 608.5234375
At step 81, loss is 602.2486572265625
At step 82, loss is 591.0067138671875
At step 83, loss is 579.7828979492188
At step 84, loss is 570.86279296875
At step 85, loss is 564.2608032226562
At step 86, loss is 553.26220703125
At step 87, loss is 546.2787475585938
At step 88, loss is 537.9310913085938
At step 89, loss is 531.0532836914062
At step 90, loss is 524.4183349609375
At step 91, loss is 516.0601806640625
At step 92, loss is 509.89825439453125
At step 93, loss is 503.6634826660156
At step 94, loss is 497.4097900390625
At step 95, loss is 491.13531494140625
At step 96, loss is 484.518798828125
At step 97, loss is 479.4542236328125
At step 98, loss is 474.4603271484375
At step 99, loss is 469.76837158203125
At step 100, loss is 464.84625244140625
At step 101, loss is 460.0390625
At step 102, loss is 456.6234130859375
At step 103, loss is 452.22003173828125
At step 104, loss is 448.19189453125
At step 105, loss is 443.436767578125
At step 106, loss is 439.610107421875
At step 107, loss is 436.3723449707031
At step 108, loss is 431.1351318359375
At step 109, loss is 427.4542236328125
At step 110, loss is 425.26226806640625
At step 111, loss is 420.8898620605469
At step 112, loss is 418.1039123535156
At step 113, loss is 413.860107421875
At step 114, loss is 410.64288330078125
At step 115, loss is 408.52984619140625
At step 116, loss is 405.84283447265625
At step 117, loss is 401.005126953125
At step 118, loss is 399.07147216796875
At step 119, loss is 396.5351867675781
At step 120, loss is 394.90594482421875
At step 121, loss is 391.06829833984375

At step 122, loss is 386.7646484375
At step 123, loss is 383.7667236328125
At step 124, loss is 381.36212158203125
At step 125, loss is 378.39593505859375
At step 126, loss is 376.47967529296875
At step 127, loss is 375.24609375
At step 128, loss is 374.71966552734375
At step 129, loss is 372.14990234375
At step 130, loss is 367.79583740234375
At step 131, loss is 364.6101379394531
At step 132, loss is 359.8019714355469
At step 133, loss is 357.54815673828125
At step 134, loss is 356.4598083496094
At step 135, loss is 355.9959411621094
At step 136, loss is 353.45770263671875
At step 137, loss is 349.2069091796875
At step 138, loss is 345.444580078125
At step 139, loss is 344.3271179199219
At step 140, loss is 339.9634094238281
At step 141, loss is 338.4210205078125
At step 142, loss is 336.384765625
At step 143, loss is 333.84466552734375
At step 144, loss is 332.0908203125
At step 145, loss is 327.893310546875
At step 146, loss is 325.6513366699219
At step 147, loss is 322.4241638183594
At step 148, loss is 318.77410888671875
At step 149, loss is 314.1479797363281
At step 150, loss is 311.9920654296875
At step 151, loss is 310.1080322265625
At step 152, loss is 307.8134765625
At step 153, loss is 310.78021240234375
At step 154, loss is 318.20050048828125
At step 155, loss is 318.47265625
At step 156, loss is 317.1509704589844
At step 157, loss is 298.59649658203125
At step 158, loss is 296.07830810546875
At step 159, loss is 306.34649658203125
At step 160, loss is 296.7464599609375
At step 161, loss is 287.40240478515625
At step 162, loss is 290.50537109375
At step 163, loss is 289.24560546875
At step 164, loss is 282.3060607910156
At step 165, loss is 280.1721496582031
At step 166, loss is 281.05596923828125
At step 167, loss is 278.10870361328125
At step 168, loss is 273.01397705078125
At step 169, loss is 274.9737548828125

At step 170, loss is 274.6280517578125
At step 171, loss is 269.036865234375
At step 172, loss is 266.22637939453125
At step 173, loss is 268.3523254394531
At step 174, loss is 266.96038818359375
At step 175, loss is 261.66754150390625
At step 176, loss is 260.981201171875
At step 177, loss is 260.77838134765625
At step 178, loss is 258.81097412109375
At step 179, loss is 255.0577392578125
At step 180, loss is 253.3813934326172
At step 181, loss is 252.26034545898438
At step 182, loss is 251.52127075195312
At step 183, loss is 249.19091796875
At step 184, loss is 247.2205352783203
At step 185, loss is 246.5325164794922
At step 186, loss is 246.01373291015625
At step 187, loss is 243.5038299560547
At step 188, loss is 242.70050048828125
At step 189, loss is 241.1298370361328
At step 190, loss is 238.7887420654297
At step 191, loss is 238.1204833984375
At step 192, loss is 237.79864501953125
At step 193, loss is 237.81805419921875
At step 194, loss is 236.1363067626953
At step 195, loss is 235.09413146972656
At step 196, loss is 233.1884765625
At step 197, loss is 230.46829223632812
At step 198, loss is 228.54872131347656
At step 199, loss is 227.80364990234375
At step 200, loss is 226.49754333496094
At step 201, loss is 227.31517028808594
At step 202, loss is 227.82666015625
At step 203, loss is 230.77719116210938
At step 204, loss is 242.41494750976562
At step 205, loss is 246.15237426757812
At step 206, loss is 248.15676879882812
At step 207, loss is 225.72781372070312
At step 208, loss is 221.58697509765625
At step 209, loss is 236.90089416503906
At step 210, loss is 228.03045654296875
At step 211, loss is 216.11944580078125
At step 212, loss is 220.84107971191406
At step 213, loss is 223.00436401367188
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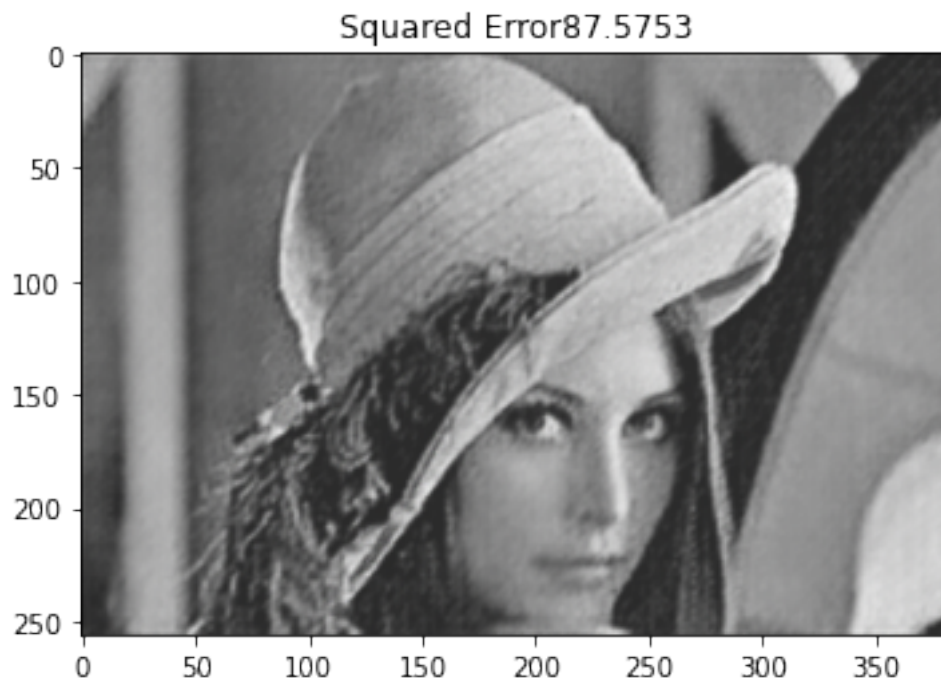
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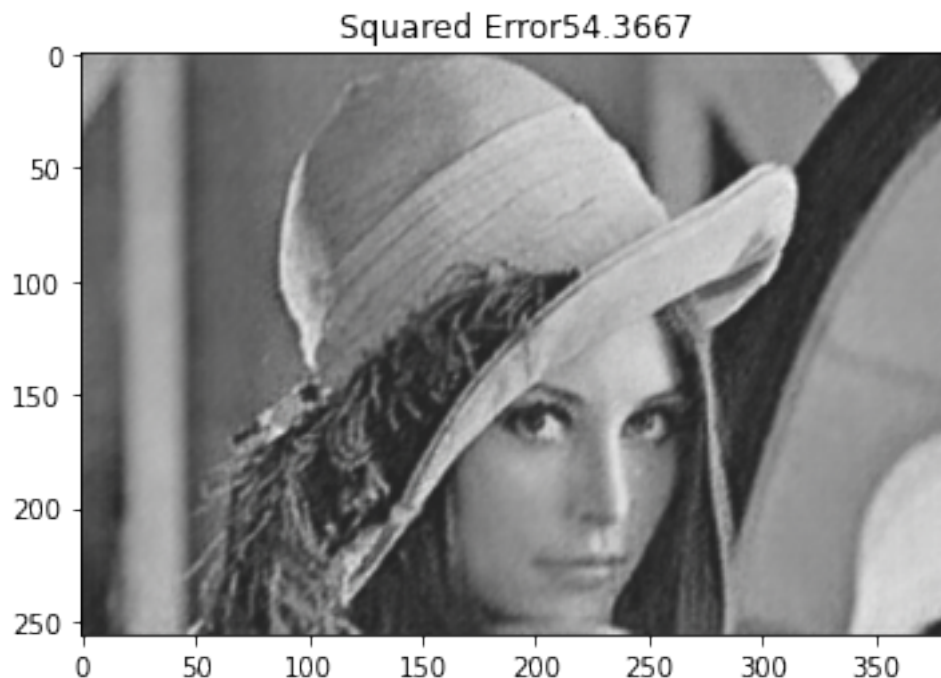
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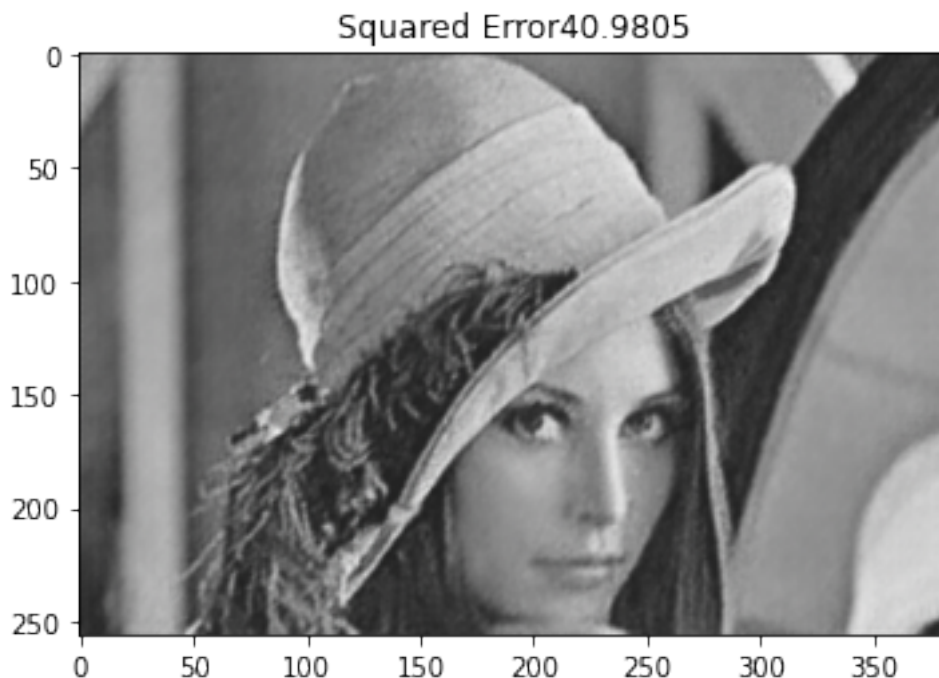
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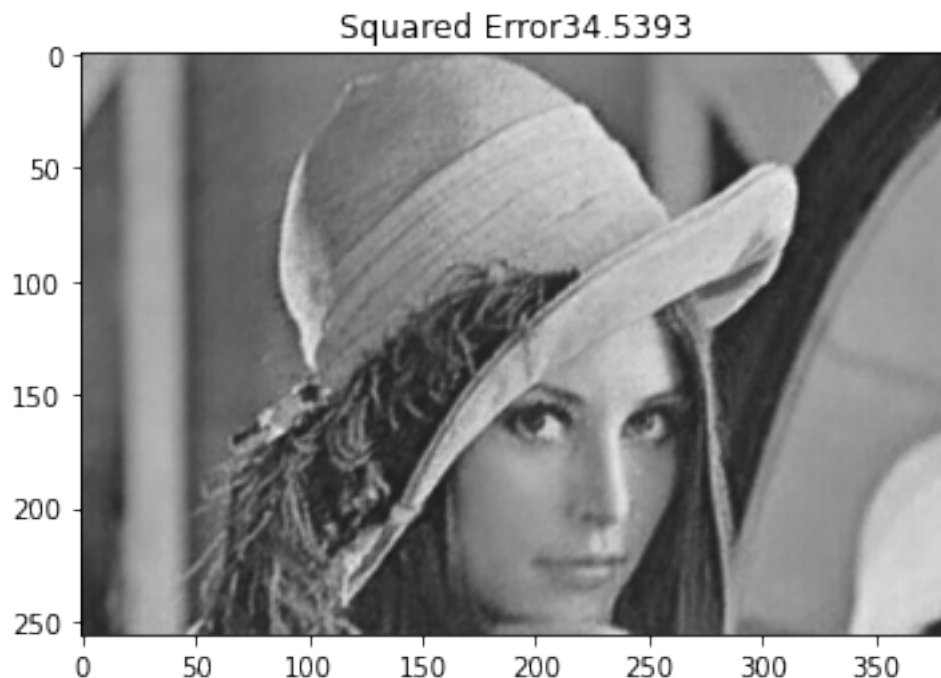
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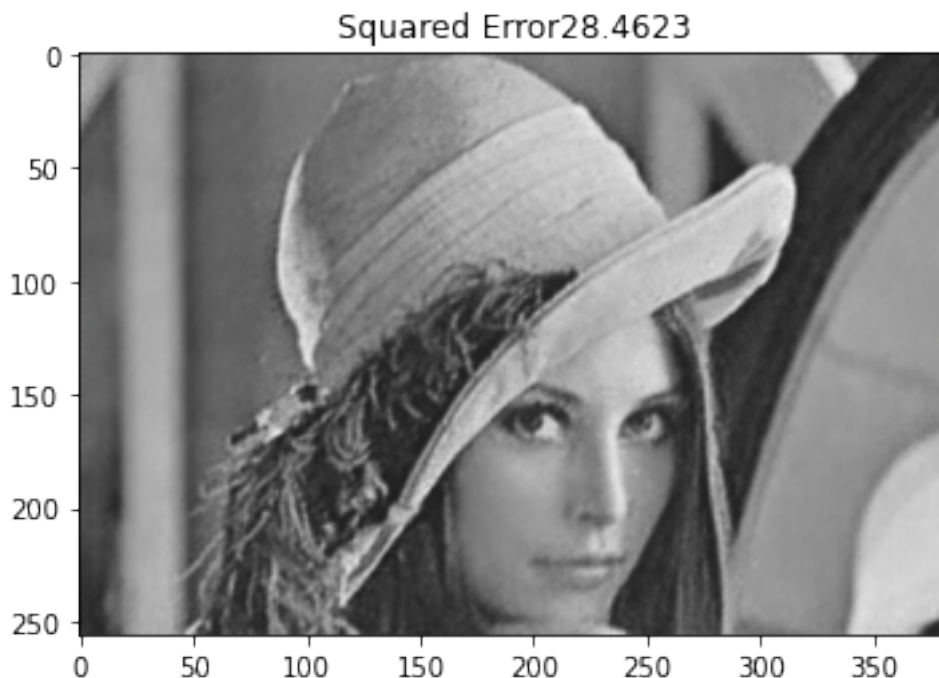
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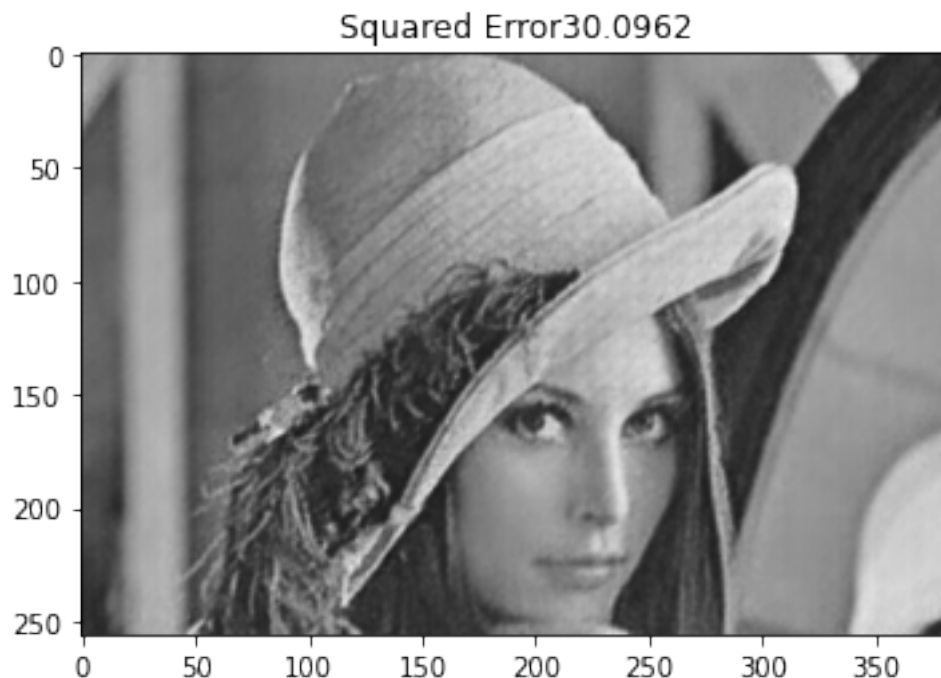
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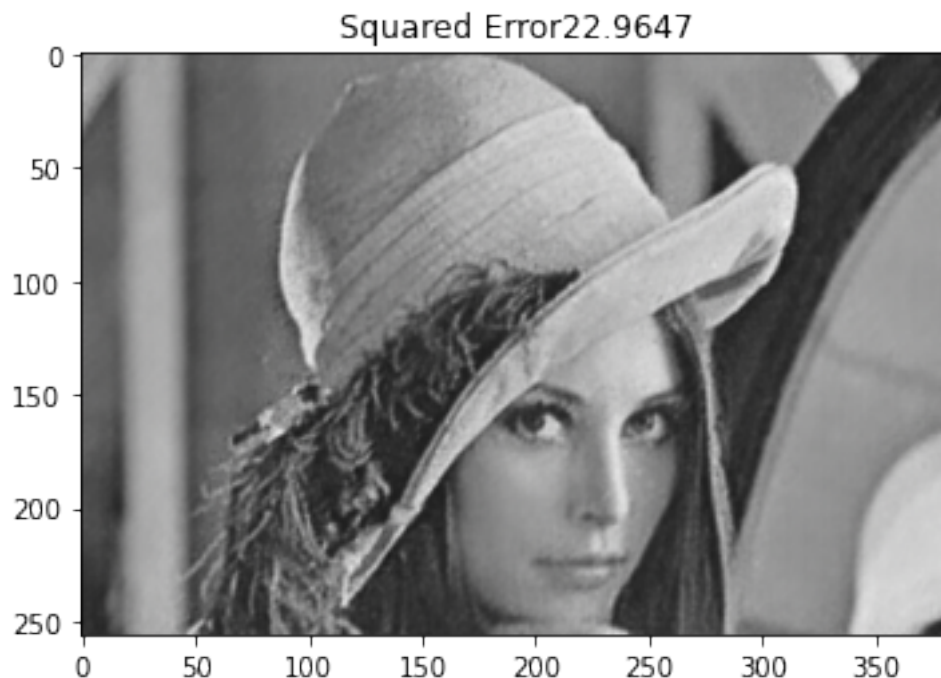
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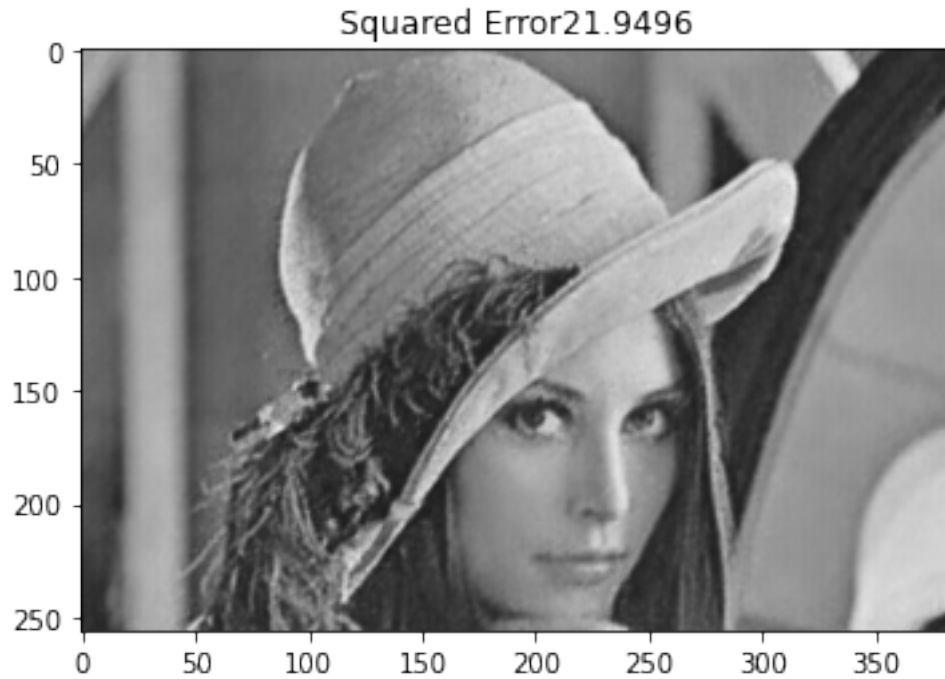
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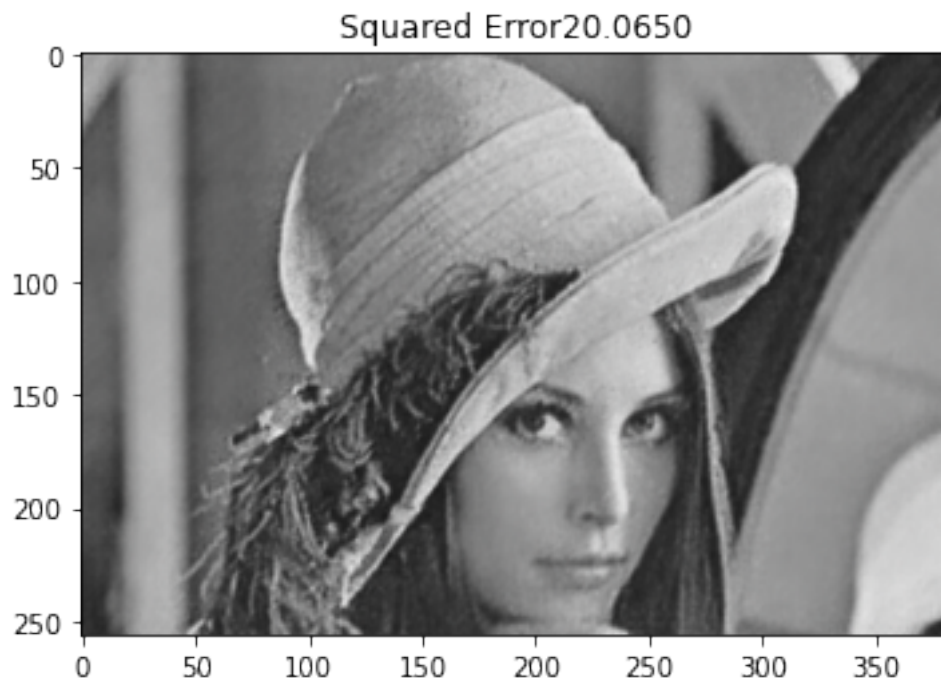
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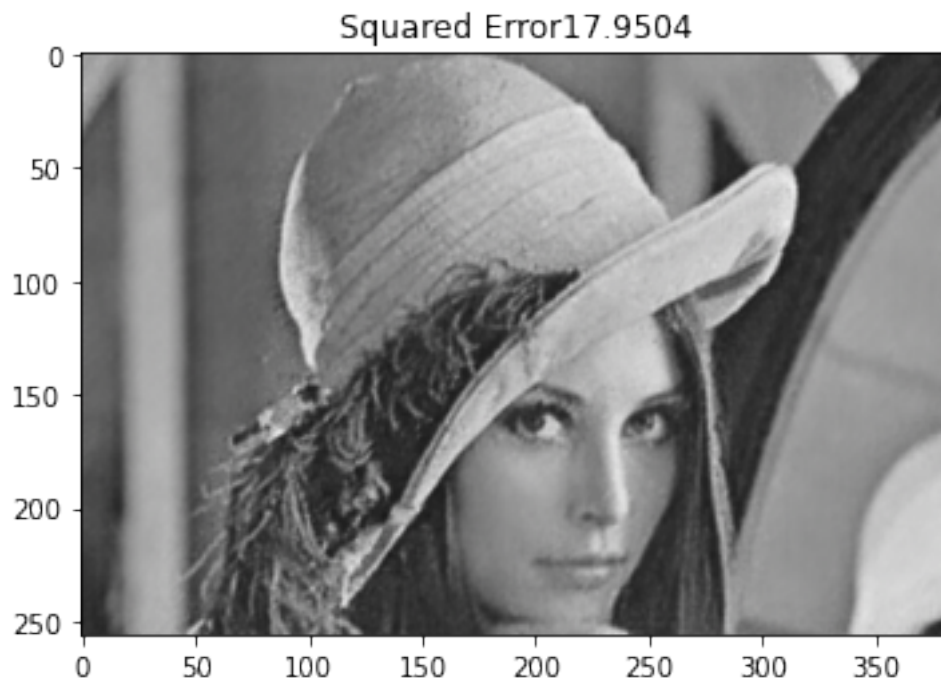
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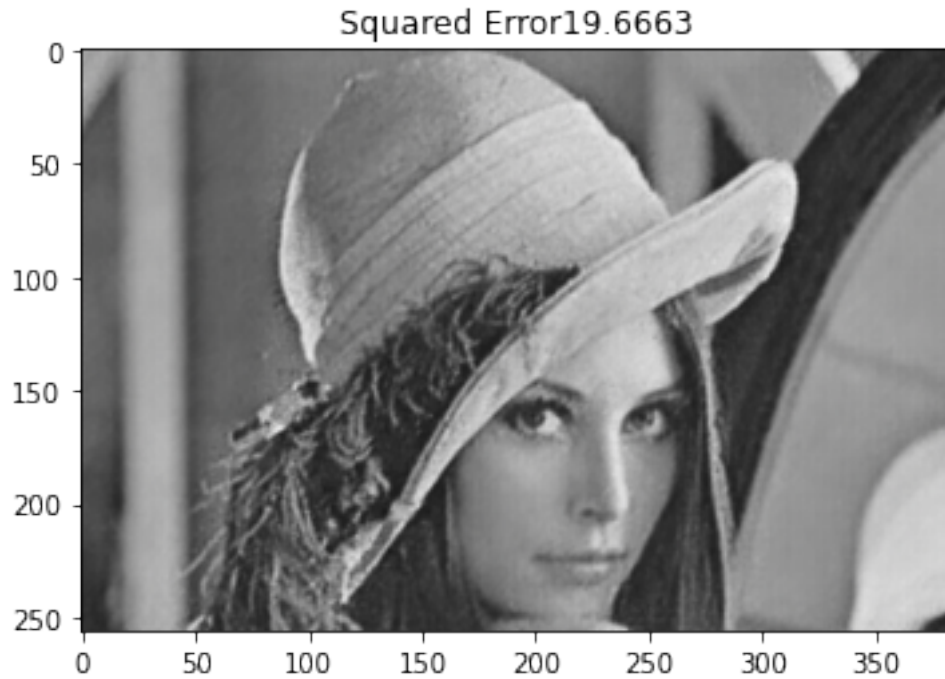
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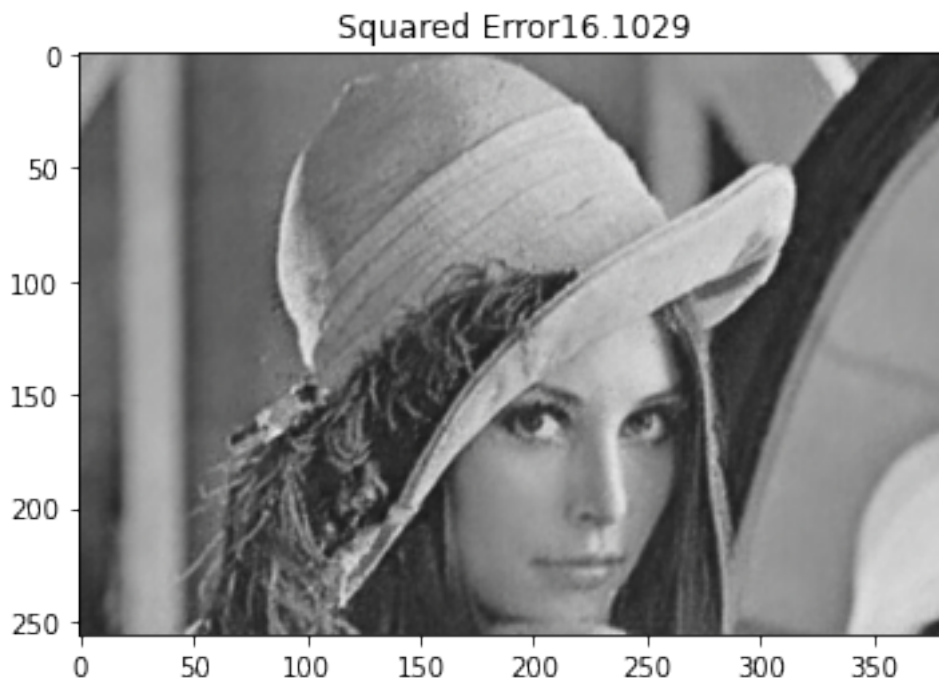
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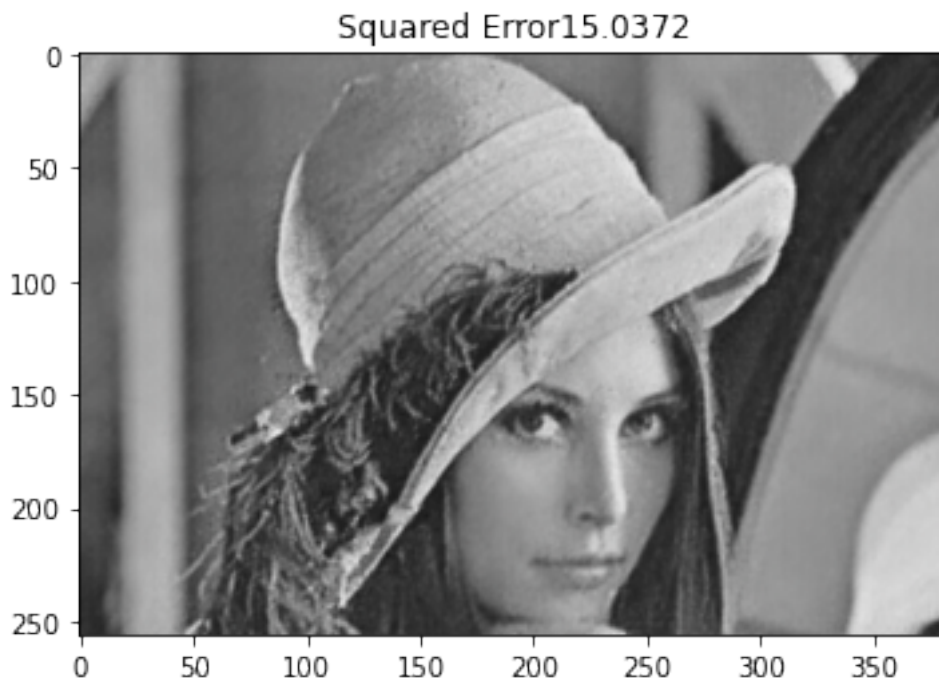
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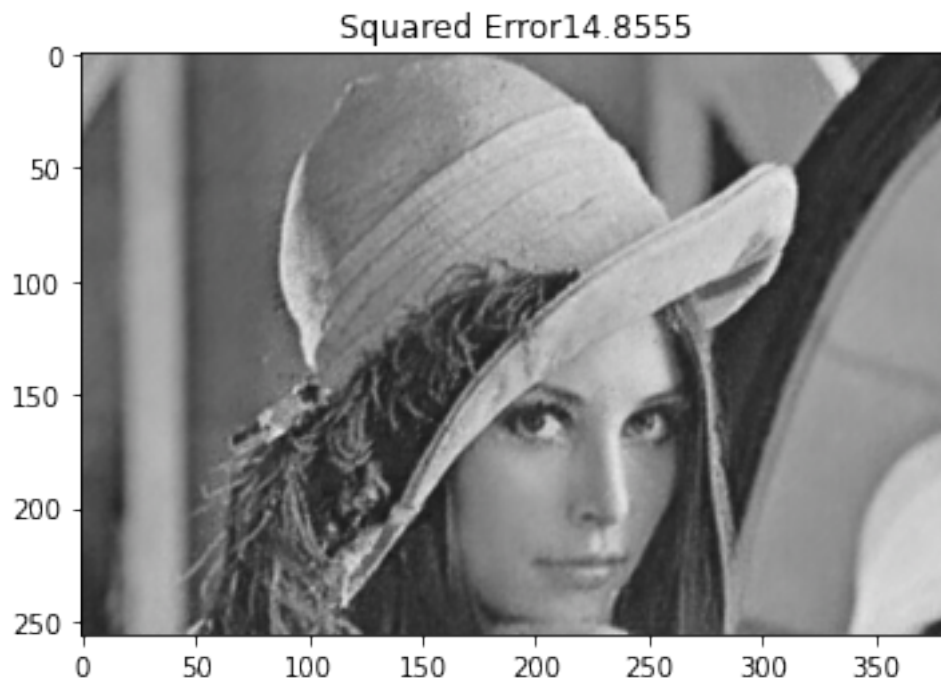
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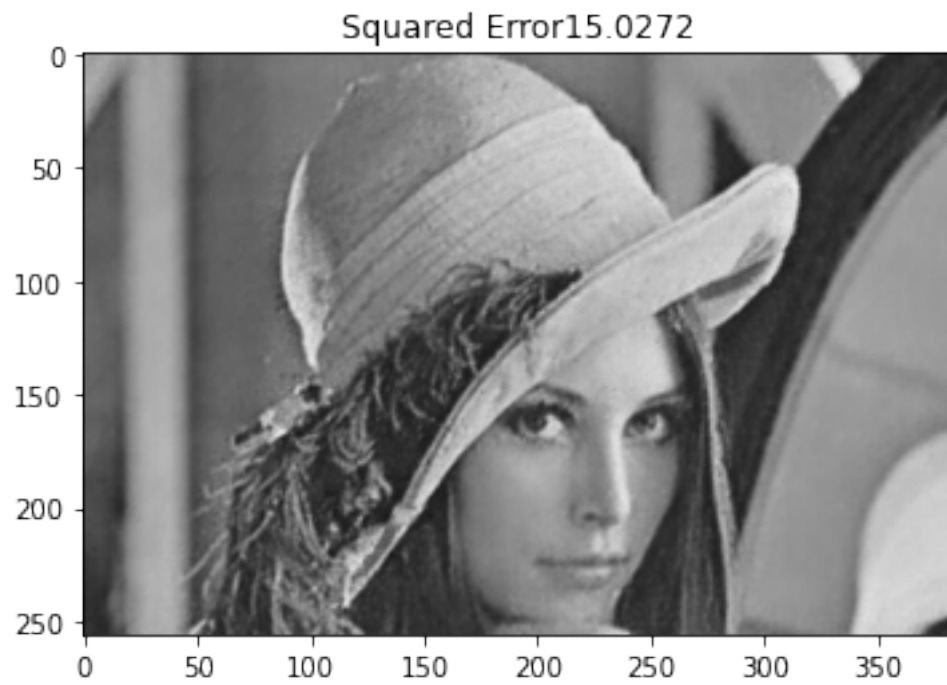
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At step 3967, loss is 14.61558723449707

At step 3968, loss is 14.396800994873047
At step 3969, loss is 14.50161075592041
At step 3970, loss is 14.351795196533203
At step 3971, loss is 14.391215324401855
At step 3972, loss is 14.471979141235352
At step 3973, loss is 14.746915817260742
At step 3974, loss is 15.04078483581543
At step 3975, loss is 15.34370231628418
At step 3976, loss is 15.857009887695312
At step 3977, loss is 16.381275177001953
At step 3978, loss is 16.780574798583984
At step 3979, loss is 17.05553436279297
At step 3980, loss is 17.164791107177734
At step 3981, loss is 17.21710205078125
At step 3982, loss is 17.299198150634766
At step 3983, loss is 17.488252639770508
At step 3984, loss is 17.280757904052734
At step 3985, loss is 16.857046127319336
At step 3986, loss is 16.390777587890625
At step 3987, loss is 16.591981887817383
At step 3988, loss is 17.135929107666016
At step 3989, loss is 17.24776840209961
At step 3990, loss is 16.635639190673828
At step 3991, loss is 15.734125137329102
At step 3992, loss is 15.022911071777344
At step 3993, loss is 15.001747131347656
At step 3994, loss is 15.281579971313477
At step 3995, loss is 15.350597381591797
At step 3996, loss is 14.79580020904541
At step 3997, loss is 14.226774215698242
At step 3998, loss is 14.339390754699707
At step 3999, loss is 14.606867790222168
At step 4000, loss is 15.027217864990234



<Figure size 432x288 with 0 Axes>