Coursework 2: Image segmentation

In this coursework you will develop and train a convolutional neural network for brain tumour image segmentation. Please read both the text and the code in this notebook to get an idea what you are expected to implement. Pay attention to the missing code blocks that look like this:

```
### Insert your code ###
...
### End of your code ###
```

What to do?

- Complete and run the code using jupyter-lab or jupyter-notebook to get the results.
- Export (File | Save and Export Notebook As...) the notebook as a PDF file, which contains your code, results and answers, and upload the PDF file onto Scientia.
- Instead of clicking the Export button, you can also run the following command instead: jupyter nbconvert coursework.ipynb --to pdf
- If Jupyter complains about some problems in exporting, it is likely that pandoc (https://pandoc.org/installing.html) or latex is not installed, or their paths have not been included. You can install the relevant libraries and retry.
- If Jupyter-lab does not work for you at the end, you can use Google Colab to write the code and export the PDF file.

Dependencies

You need to install Jupyter-Lab (https://jupyterlab.readthedocs.io/en/stable/getting_started/installation.html) and other libraries used in this coursework, such as by running the command: pip3 install [package_name]

GPU resource

The coursework is developed to be able to run on CPU, as all images have been pre-processed to be 2D and of a smaller size, compared to original 3D volumes.

However, to save training time, you may want to use GPU. In that case, you can run this notebook on Google Colab. On Google Colab, go to the menu, Runtime - Change runtime type, and select **GPU** as the hardware acceleartor. At the end, please still export everything and submit as a PDF file on Scientia.

```
In [ ]: # Import libraries
        # These libraries should be sufficient for this tutorial.
        # However, if any other library is needed, please install by yourself.
        import tarfile
        import imageio
        import torch
        import torch.nn as nn
        import torch.nn.functional as F
        import torch.optim as optim
        from torch.utils.data import Dataset
        import numpy as np
        import time
        import os
        import random
        import matplotlib.pyplot as plt
        from matplotlib import colors
        from PIL import Image
```

1. Download and visualise the imaging dataset.

The dataset is curated from the brain imaging dataset in Medical Decathlon Challenge. To save the storage and reduce the computational cost for this tutorial, we extract 2D image slices from T1-Gd contrast enhanced 3D brain volumes and downsample the images.

The dataset consists of a training set and a test set. Each image is of dimension 120 x 120, with a corresponding label map of the same dimension. There are four number of classes in the label map:

- 0: background
- 1: edema
- 2: non-enhancing tumour
- 3: enhancing tumour

```
In []: # Download the dataset
!wget https://www.dropbox.com/s/zmytk2yu284af6t/Task01_BrainTumour_2D.tar.gz

# Unzip the '.tar.gz' file to the current directory
datafile = tarfile.open('Task01_BrainTumour_2D.tar.gz')
datafile.extractall()
datafile.close()
```

```
--2024-02-25 21:17:52-- https://www.dropbox.com/s/zmytk2yu284af6t/Task01 BrainTumour 2D.tar.gz
Resolving www.dropbox.com (www.dropbox.com)... 162.125.1.18, 2620:100:6016:18::a27d:112
Connecting to www.dropbox.com (www.dropbox.com)|162.125.1.18|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: /s/raw/zmytk2yu284af6t/Task01 BrainTumour 2D.tar.gz [following]
--2024-02-25 21:17:52-- https://www.dropbox.com/s/raw/zmytk2yu284af6t/Task01 BrainTumour 2D.tar.gz
Reusing existing connection to www.dropbox.com:443.
HTTP request sent, awaiting response... 302 Found
Location: https://uc1a351e1e2f411b7339f7cd5a82.dl.dropboxusercontent.com/cd/0/inline/CN e4za27PcdRXlmHLlKCW1ANGGNru7v84JPXiZYXMfJutLjgZqJB5-
523pEpd5LWpwzOjO 4jV8d5LuPqtYUgFeynPs8K8OINZbDUVWP4zUgyLQL693IYGGoNmNtyrY4c0/file# [following]
--2024-02-25 21:17:52-- https://uc1a351e1e2f411b7339f7cd5a82.dl.dropboxusercontent.com/cd/0/inline/CN e4za27PcdRXlmHLlKCW1ANGGNru7v84JPXiZY
XMfJutLigZqJB5-523pEpd5LWpwzOjO 4jV8d5LuPqtYUgFeynPs8K8OINZbDUVWP4zUgyLOL693IYGGoNmNtyrY4c0/file
Resolving uc1a351e1e2f411b7339f7cd5a82.dl.dropboxusercontent.com (uc1a351e1e2f411b7339f7cd5a82.dl.dropboxusercontent.com)... 162.125.1.15, 2
620:100:6016:15::a27d:10f
Connecting to ucla351e1e2f411b7339f7cd5a82.dl.dropboxusercontent.com (ucla351e1e2f411b7339f7cd5a82.dl.dropboxusercontent.com)|162.125.1.15|:
443... connected.
HTTP request sent, awaiting response... 302 Found
Location: /cd/0/inline2/CN-eWya5yE6SvI8YhBmuZ2BCNAxDoCmKD4zMOamRO4IHfx8I2YshlcR4qqnlEJDknHQS6JCEickK5CSSgxEWWiARjJQff5Tz94x51xKhSPNnVKS4TwJo
llzSjHU1q1E9eCtF8Nrckht-iG GV9F4kPnGxwE9wMWZI8s0ERljptCDlXebJcN x-OY-jRvMnj0i7xnEtntw6AImBsYaMOW2yCXAO51COT5pWwXBT0GrtT0gZ361j CJ8JPRbBxXn5G
b7J 68zg5gxaiJIag321jSwNos8G6TagP cy4ZQ6eypP5FUUfdchivke8W0EeTm0vqldiubDXRC2NCraxrEiEf0yD7k9CNMiYya UQw8Z TbCw/file [following]
--2024-02-25 21:17:53-- https://ucla351e1e2f411b7339f7cd5a82.dl.dropboxusercontent.com/cd/0/inline2/CN-eWya5yE6SvI8YhBmuZ2BCNAxDoCmKD4zMOam
RO4IHfx8I2YshlcR4qqn1EJDknHOS6JCEickK5CSSgxEWWiARjJOff5Tz94x51xKhSPNnVKS4TwJollzSjHU1q1E9eCtF8Nrckht-iG GV9F4kPnGxwE9wMWZI8s0ERljptCDlXebJcN
x-QY-jRvMnj0i7xnEtntw6AImBsYaMOW2yCXAO51COT5pWwXBT0GrtT0gZ361j CJ8JPRbBxXn5Gb7J 68zg5gxaiJIag321jSwNos8G6TagP cy4ZQ6eypP5FUUfdchivke8W0EeTm
0vqldiubDXRC2NCraxrEiEf0yD7k9CNMiYya UQw8Z TbCw/file
Reusing existing connection to uc1a351e1e2f411b7339f7cd5a82.dl.dropboxusercontent.com:443.
HTTP request sent, awaiting response... 200 OK
Length: 9251149 (8.8M) [application/octet-stream]
Saving to: 'Task01 BrainTumour 2D.tar.gz'
Task01 BrainTumour 100%[========>] 8.82M --.-KB/s
                                                                 in 0.1s
2024-02-25 21:17:53 (91.4 MB/s) - 'Task01 BrainTumour 2D.tar.gz' saved [9251149/9251149]
```

Visualise a random set of 4 training images along with their label maps.

Suggested colour map for brain MR image:

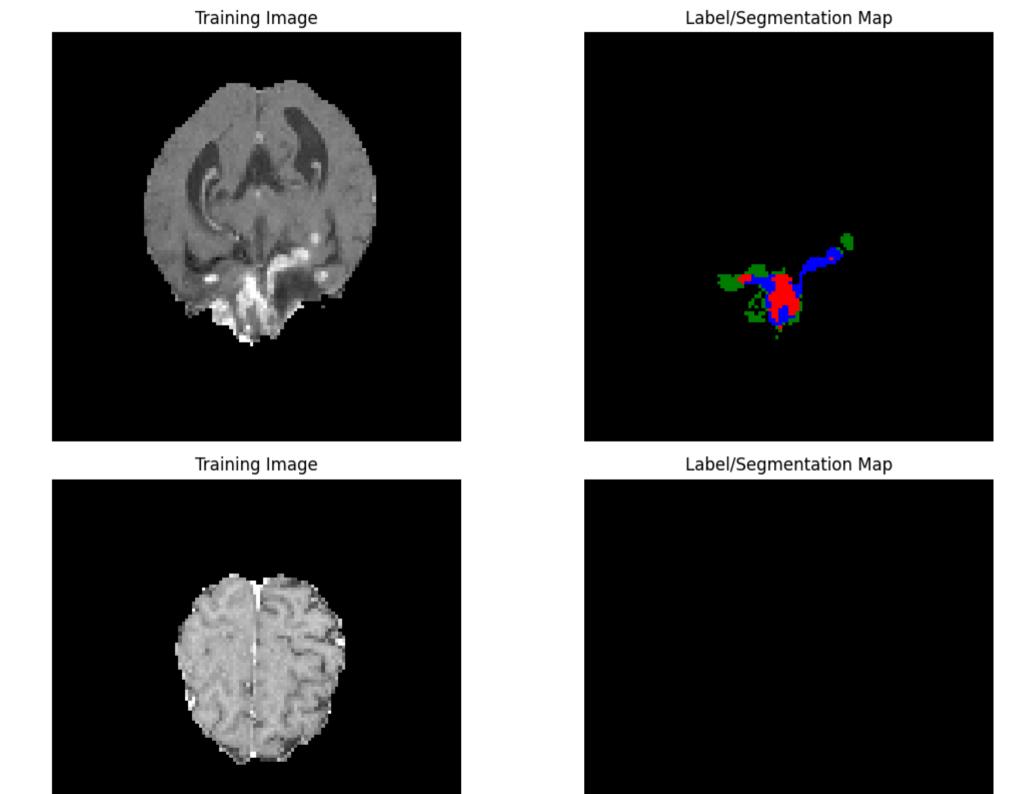
```
cmap = 'gray'
```

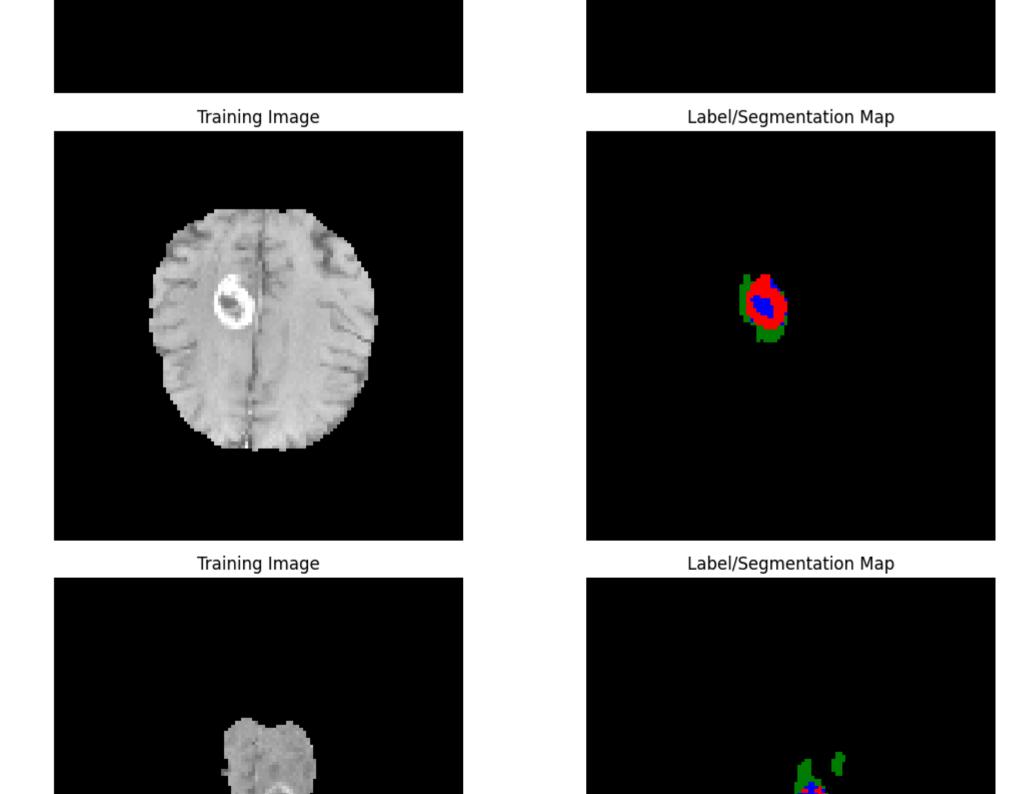
Suggested colour map for segmentation map:

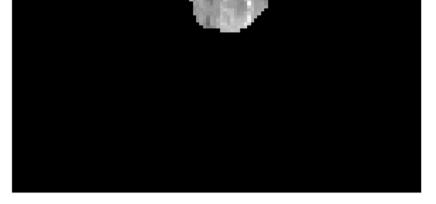
```
cmap = colors.ListedColormap(['black', 'green', 'blue', 'red'])
```

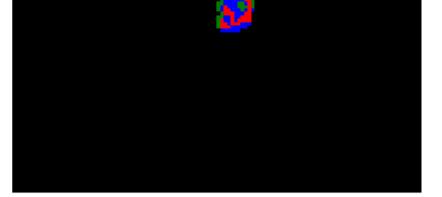
```
In [ ]: ### Insert your code ###
        train image dir = './Task01 BrainTumour 2D/training images/'
        train label dir = './Task01 BrainTumour 2D/training labels/'
        print("Loading training images and labels")
        # Load images and labels using list comprehension
        train images = [np.array(Image.open(os.path.join(train image dir, filename)))
                        for filename in os.listdir(train image dir) if filename.endswith('.png')]
        train labels = [np.array(Image.open(os.path.join(train label dir, filename)))
                        for filename in os.listdir(train label dir) if filename.endswith('.png')]
        print("Training images and labels loaded")
        # Defining color maps for visualization.
        cmap brain mr = 'gray'
        cmap segmentation = colors.ListedColormap(['black', 'green', 'blue', 'red'])
        # Plot the images and their label maps.
        print("Plotting images and label maps")
        fig, axes = plt.subplots(4, 2, figsize=(12, 18))
        rand image = np.random.choice(len(train images), 4, replace=False)
        for i, idx in enumerate(rand image):
            image = train images[idx]
            label map = train labels[idx]
            # Plotting the training image.
            axes[i, 0].imshow(image, cmap=cmap brain mr)
            axes[i, 0].axis('off')
            axes[i, 0].set title('Training Image')
            # Plotting the label map.
            axes[i, 1].imshow(label map, cmap=cmap segmentation, vmin=0, vmax=3)
            axes[i, 1].axis('off')
            axes[i, 1].set title('Label/Segmentation Map')
        plt.tight layout()
        plt.show()
        print("Visualization complete")
        ### End of your code ###
```

Loading training images and labels Training images and labels loaded Plotting images and label maps









Visualization complete

2. Implement a dataset class.

It can read the imaging dataset and get items, pairs of images and label maps, as training batches.

```
In [ ]: def normalise intensity(image, thres roi=1.0):
            """ Normalise the image intensity by the mean and standard deviation """
            # Ensure image is a numpy array
            image = np.array(image)
            # ROI defines the image foreground
            val 1 = np.percentile(image, thres roi)
            roi = (image >= val 1)
            mu, sigma = np.mean(image[roi]), np.std(image[roi])
            eps = 1e-6
            image2 = (image - mu) / (sigma + eps)
            return image2
        class BrainImageSet(Dataset):
            """ Brain image set """
            def init (self, image path, label path='', deploy=False):
                self.image path = image path
                self.deploy = deploy
                self.images = []
                self.labels = []
                image_names = sorted(os.listdir(image_path))
                for image name in image names:
                    # Read the image
                    image = imageio.imread(os.path.join(image_path, image_name))
                    self.images += [image]
```

```
# Read the Label map
        if not self.deploy:
            label name = os.path.join(label path, image name)
            label = imageio.imread(label name)
            self.labels += [label]
def len (self):
    return len(self.images)
def getitem (self, idx):
    # Get an image and perform intensity normalisation
    # Dimension: XY
    image = normalise intensity(self.images[idx])
    # Get its label map
    # Dimension: XY
    label = self.labels[idx]
    return image, label
def get random batch(self, batch size):
    # Get a batch of paired images and label maps
    # Dimension of images: NCXY
    # Dimension of Labels: NXY
    images, labels = [], []
    ### Insert your code ###
    rand batch = np.random.choice(len(self), batch size, replace=False)
    for idx in rand batch:
        image, label = self[idx]
       images.append(image)
       labels.append(label)
   ### End of your code ###
    #print(images.shape)
    return images, labels
```

3. Build a U-net architecture.

You will implement a U-net architecture. If you are not familiar with U-net, please read this paper:

[1] Olaf Ronneberger et al. U-Net: Convolutional networks for biomedical image segmentation. MICCAI, 2015.

For the first convolutional layer, you can start with 16 filters. We have implemented the encoder path. Please complete the decoder path.

```
""" U-net """
class UNet(nn.Module):
   def init (self, input channel=1, output channel=1, num filter=16):
        super(UNet, self).__init__()
        # BatchNorm: by default during training this layer keeps running estimates
        # of its computed mean and variance, which are then used for normalization
        # during evaluation.
        # Encoder path
        n = num filter # 16
        self.conv1 = nn.Sequential(
           nn.Conv2d(input channel, n, kernel size=3, padding=1),
            nn.BatchNorm2d(n),
           nn.ReLU(),
           nn.Conv2d(n, n, kernel size=3, padding=1),
           nn.BatchNorm2d(n),
           nn.ReLU()
        n *= 2 # 32
        self.conv2 = nn.Sequential(
           nn.Conv2d(int(n / 2), n, kernel size=3, stride=2, padding=1),
           nn.BatchNorm2d(n),
           nn.ReLU(),
           nn.Conv2d(n, n, kernel size=3, padding=1),
           nn.BatchNorm2d(n),
           nn.ReLU()
        n *= 2 # 64
        self.conv3 = nn.Sequential(
           nn.Conv2d(int(n / 2), n, kernel_size=3, stride=2, padding=1),
           nn.BatchNorm2d(n),
           nn.ReLU(),
           nn.Conv2d(n, n, kernel size=3, padding=1),
           nn.BatchNorm2d(n),
            nn.ReLU()
        n *= 2 # 128
        self.conv4 = nn.Sequential(
           nn.Conv2d(int(n / 2), n, kernel_size=3, stride=2, padding=1),
           nn.BatchNorm2d(n),
           nn.ReLU(),
           nn.Conv2d(n, n, kernel_size=3, padding=1),
```

In []:

```
nn.BatchNorm2d(n),
        nn.ReLU()
    # Decoder path
    ### Insert your code ###
    self.upconv3 = nn.ConvTranspose2d(n, n // 2, kernel size=4, stride=2, padding=1)
    self.conv3d = nn.Sequential(
        nn.Conv2d(n, n // 2, kernel size=3, padding=1),
        nn.BatchNorm2d(n // 2),
        nn.ReLU(),
        nn.Conv2d(n // 2, n // 2, kernel size=3, padding=1),
       nn.BatchNorm2d(n // 2),
       nn.ReLU()
    n //= 2 # 64
    self.upconv2 = nn.ConvTranspose2d(n, n // 2, kernel_size=4, stride=2, padding=1)
    self.conv2d = nn.Sequential(
       nn.Conv2d(n, n // 2, kernel size=3, padding=1),
        nn.BatchNorm2d(n // 2),
       nn.ReLU(),
       nn.Conv2d(n // 2, n // 2, kernel_size=3, padding=1),
       nn.BatchNorm2d(n // 2),
        nn.ReLU()
    n //= 2 # 32
    self.upconv1 = nn.ConvTranspose2d(n, n // 2, kernel size=4, stride=2, padding=1)
    self.conv1d = nn.Sequential(
       nn.Conv2d(n, n // 2, kernel_size=3, padding=1),
       nn.BatchNorm2d(n // 2),
       nn.ReLU(),
       nn.Conv2d(n // 2, n // 2, kernel_size=3, padding=1),
       nn.BatchNorm2d(n // 2),
       nn.ReLU(),
        nn.Conv2d(n // 2, output channel, kernel size=1) # Output segmentation map
   ### End of your code ###
def forward(self, x):
   # Use the convolutional operators defined above to build the U-net
    # The encoder part is already done for you.
   # You need to complete the decoder part.
    # Encoder
   x1 = self.conv1(x)
```

```
conv1 skip = x1
#print(x1.size())
x2 = self.conv2(x1)
conv2\_skip = x2
#print(x2.size())
x3 = self.conv3(x2)
conv3 skip = x3
#print(x3.size())
x4 = self.conv4(x3)
#print(x4.size())
# Decoder
### Insert your code ###
x = self.upconv3(x4)
#print(x.size())
#print(x3.size())
x = torch.cat([x, x3], dim=1)
#print(x.size())
x = self.conv3d(x)
x = self.upconv2(x)
x = torch.cat([x, x2], dim=1)
x = self.conv2d(x)
x = self.upconv1(x)
x = torch.cat([x, x1], dim=1)
x = self.conv1d(x)
### End of your code ###
return x
```

4. Train the segmentation model.

```
In []: # CUDA device
    device = torch.device('cuda' if torch.cuda.is_available() else 'cpu')
    print('Device: {0}'.format(device))

# Build the model
    num_class = 4
    model = UNet(input_channel=1, output_channel=num_class, num_filter=16)
    model = model.to(device)
    params = list(model.parameters())
```

```
model dir = 'saved models'
if not os.path.exists(model dir):
    os.makedirs(model dir)
# Optimizer
optimizer = optim.Adam(params, lr=1e-3)
# Segmentation Loss
criterion = nn.CrossEntropyLoss()
# Datasets
train set = BrainImageSet('Task01 BrainTumour 2D/training images', 'Task01 BrainTumour 2D/training labels')
test set = BrainImageSet('Task01 BrainTumour 2D/test images', 'Task01 BrainTumour 2D/test labels')
# Train the model
# Note: when you debug the model, you may reduce the number of iterations or batch size to save time.
num iter = 10000
train batch size = 16
eval batch size = 16
start = time.time()
for it in range(1, 1 + num iter):
    # Set the modules in training mode, which will have effects on certain modules, e.g. dropout or batchnorm.
    start iter = time.time()
    model.train()
    # Get a batch of images and labels
    images, labels = train set.get random batch(train batch size)
    images, labels = np.stack(images), np.stack(labels) # Convert List to numpy array
    #print(images.shape) # Add this line to print the shape of images
    images, labels = torch.from numpy(images), torch.from numpy(labels)
    images, labels = images.unsqueeze(1), labels # Add a batch dimension to images
    images, labels = images.to(device, dtype=torch.float32), labels.to(device, dtype=torch.long)
    logits = model(images)
    # Perform optimisation and print out the training loss
    ### Insert your code ###
    optimizer.zero grad()
    loss = criterion(logits, labels)
    loss.backward()
    optimizer.step()
    print("Training [{}/{{}}]: Loss: {:.3f}".format(it, num iter, loss.item()))
    ### End of your code ###
    # Evaluate
```

```
if it % 100 == 0:
         model.eval()
         # Disabling gradient calculation during reference to reduce memory consumption
         with torch.no grad():
             # Evaluate on a batch of test images and print out the test loss
             ### Insert your code ###
             test loss = 0
             num batches = (len(test set) // eval batch size)
             for i in range(num batches):
                 start idx = (i * eval batch size)
                 end idx = (start idx + eval batch size)
                 images, labels = test set[start idx:end idx]
                 images, labels = np.stack(images), np.stack(labels) # Convert List to numpy array
                 images, labels = torch.from numpy(images), torch.from numpy(labels)
                 images, labels = images.unsqueeze(1), labels # Add a batch dimension to images
                 images, labels = images.to(device, dtype=torch.float32), labels.to(device, dtype=torch.long)
                 logits = model(images)
                 test loss = (test loss + criterion(logits, labels).item())
             test loss = (test loss / num batches)
             print("Test Loss: {:.3f}".format(test_loss))
             ### End of your code ###
     # Save the model
     if it % 5000 == 0:
         torch.save(model.state dict(), os.path.join(model dir, 'model {0}.pt'.format(it)))
 print('Training took {:.3f}s in total.'.format(time.time() - start))
Device: cuda
<ipython-input-5-0055689bb296>:25: DeprecationWarning: Starting with ImageIO v3 the behavior of this function will switch to that of iio.v3.
imread. To keep the current behavior (and make this warning disappear) use `import imageio.v2 as imageio` or call `imageio.v2.imread` direct
ly.
 image = imageio.imread(os.path.join(image path, image name))
<ipython-input-5-0055689bb296>:31: DeprecationWarning: Starting with ImageIO v3 the behavior of this function will switch to that of iio.v3.
imread. To keep the current behavior (and make this warning disappear) use `import imageio.v2 as imageio` or call `imageio.v2.imread` direct
ly.
```

label = imageio.imread(label name)

Streaming output truncated to the last 5000 lines. Training [5052/10000]: Loss: 0.018 Training [5053/10000]: Loss: 0.016 Training [5054/10000]: Loss: 0.017 Training [5055/10000]: Loss: 0.013 Training [5056/10000]: Loss: 0.023 Training [5057/10000]: Loss: 0.018 Training [5058/10000]: Loss: 0.015 Training [5059/10000]: Loss: 0.016 Training [5060/10000]: Loss: 0.016 Training [5061/10000]: Loss: 0.010 Training [5062/10000]: Loss: 0.011 Training [5063/10000]: Loss: 0.018 Training [5064/10000]: Loss: 0.013 Training [5065/10000]: Loss: 0.014 Training [5066/10000]: Loss: 0.012 Training [5067/10000]: Loss: 0.013 Training [5068/10000]: Loss: 0.021 Training [5069/10000]: Loss: 0.012 Training [5070/10000]: Loss: 0.012 Training [5071/10000]: Loss: 0.010 Training [5072/10000]: Loss: 0.018 Training [5073/10000]: Loss: 0.023 Training [5074/10000]: Loss: 0.017 Training [5075/10000]: Loss: 0.017 Training [5076/10000]: Loss: 0.016 Training [5077/10000]: Loss: 0.012 Training [5078/10000]: Loss: 0.016 Training [5079/10000]: Loss: 0.016 Training [5080/10000]: Loss: 0.014 Training [5081/10000]: Loss: 0.011 Training [5082/10000]: Loss: 0.024 Training [5083/10000]: Loss: 0.023 Training [5084/10000]: Loss: 0.014 Training [5085/10000]: Loss: 0.016 Training [5086/10000]: Loss: 0.021 Training [5087/10000]: Loss: 0.013 Training [5088/10000]: Loss: 0.014 Training [5089/10000]: Loss: 0.022 Training [5090/10000]: Loss: 0.016 Training [5091/10000]: Loss: 0.015 Training [5092/10000]: Loss: 0.011 Training [5093/10000]: Loss: 0.015 Training [5094/10000]: Loss: 0.013 Training [5095/10000]: Loss: 0.010 Training [5096/10000]: Loss: 0.022

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Training [5097/10000]: Loss: 0.015
Training [5098/10000]: Loss: 0.019
Training [5099/10000]: Loss: 0.013
Training [5100/10000]: Loss: 0.018
Test Loss: 0.053
Training [5101/10000]: Loss: 0.016
Training [5102/10000]: Loss: 0.022
Training [5103/10000]: Loss: 0.022
Training [5104/10000]: Loss: 0.015
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Training [5108/10000]: Loss: 0.017
Training [5109/10000]: Loss: 0.017
Training [5110/10000]: Loss: 0.013
Training [5111/10000]: Loss: 0.016
Training [5112/10000]: Loss: 0.026
Training [5113/10000]: Loss: 0.019
Training [5114/10000]: Loss: 0.019
Training [5115/10000]: Loss: 0.014
Training [5116/10000]: Loss: 0.014
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Training [5118/10000]: Loss: 0.017
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Training [5122/10000]: Loss: 0.017
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Training [5141/10000]: Loss: 0.015
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```
Training [5142/10000]: Loss: 0.016
Training [5143/10000]: Loss: 0.014
Training [5144/10000]: Loss: 0.012
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Training [5153/10000]: Loss: 0.015
Training [5154/10000]: Loss: 0.012
Training [5155/10000]: Loss: 0.014
Training [5156/10000]: Loss: 0.017
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Training [6899/10000]: Loss: 0.008
Training [6900/10000]: Loss: 0.006
Test Loss: 0.055
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Training [6917/10000]: Loss: 0.012
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Training [6962/10000]: Loss: 0.013
Training [6963/10000]: Loss: 0.013
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Training [7003/10000]: Loss: 0.010
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Training [7053/10000]: Loss: 0.014
Training [7054/10000]: Loss: 0.014
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Test Loss: 0.054
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Training [7145/10000]: Loss: 0.014
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Training [7463/10000]: Loss: 0.013
Training [7464/10000]: Loss: 0.007
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Test Loss: 0.055
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Training [7554/10000]: Loss: 0.008
Training [7555/10000]: Loss: 0.018
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_		Loss:	
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Training	[7568/10000]:	Loss:	0.007
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Training	[7600/10000]:	Loss:	0.014
Test Loss	-	_033.	3.314
163C LU33, 0.030			

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Training [7646/10000]: Loss: 0.013
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Training [9737/10000]: Loss: 0.008
Training [9738/10000]: Loss: 0.009
Training [9739/10000]: Loss: 0.010
Training [9740/10000]: Loss: 0.009
Training [9741/10000]: Loss: 0.011
```

```
Training [9742/10000]: Loss: 0.010
Training [9743/10000]: Loss: 0.008
Training [9744/10000]: Loss: 0.012
Training [9745/10000]: Loss: 0.012
Training [9746/10000]: Loss: 0.011
Training [9747/10000]: Loss: 0.012
Training [9748/10000]: Loss: 0.014
Training [9749/10000]: Loss: 0.010
Training [9750/10000]: Loss: 0.011
Training [9751/10000]: Loss: 0.009
Training [9752/10000]: Loss: 0.012
Training [9753/10000]: Loss: 0.007
Training [9754/10000]: Loss: 0.009
Training [9755/10000]: Loss: 0.007
Training [9756/10000]: Loss: 0.012
Training [9757/10000]: Loss: 0.011
Training [9758/10000]: Loss: 0.015
Training [9759/10000]: Loss: 0.011
Training [9760/10000]: Loss: 0.009
Training [9761/10000]: Loss: 0.012
Training [9762/10000]: Loss: 0.013
Training [9763/10000]: Loss: 0.007
Training [9764/10000]: Loss: 0.012
Training [9765/10000]: Loss: 0.009
Training [9766/10000]: Loss: 0.009
Training [9767/10000]: Loss: 0.010
Training [9768/10000]: Loss: 0.011
Training [9769/10000]: Loss: 0.009
Training [9770/10000]: Loss: 0.011
Training [9771/10000]: Loss: 0.010
Training [9772/10000]: Loss: 0.013
Training [9773/10000]: Loss: 0.008
Training [9774/10000]: Loss: 0.010
Training [9775/10000]: Loss: 0.007
Training [9776/10000]: Loss: 0.006
Training [9777/10000]: Loss: 0.009
Training [9778/10000]: Loss: 0.011
Training [9779/10000]: Loss: 0.009
Training [9780/10000]: Loss: 0.005
Training [9781/10000]: Loss: 0.005
Training [9782/10000]: Loss: 0.011
Training [9783/10000]: Loss: 0.009
Training [9784/10000]: Loss: 0.011
Training [9785/10000]: Loss: 0.009
Training [9786/10000]: Loss: 0.013
Training [9787/10000]: Loss: 0.010
```

```
Training [9788/10000]: Loss: 0.009
Training [9789/10000]: Loss: 0.010
Training [9790/10000]: Loss: 0.010
Training [9791/10000]: Loss: 0.010
Training [9792/10000]: Loss: 0.011
Training [9793/10000]: Loss: 0.005
Training [9794/10000]: Loss: 0.009
Training [9795/10000]: Loss: 0.008
Training [9796/10000]: Loss: 0.010
Training [9797/10000]: Loss: 0.011
Training [9798/10000]: Loss: 0.009
Training [9799/10000]: Loss: 0.007
Training [9800/10000]: Loss: 0.007
Test Loss: 0.068
Training [9801/10000]: Loss: 0.010
Training [9802/10000]: Loss: 0.009
Training [9803/10000]: Loss: 0.013
Training [9804/10000]: Loss: 0.009
Training [9805/10000]: Loss: 0.006
Training [9806/10000]: Loss: 0.012
Training [9807/10000]: Loss: 0.008
Training [9808/10000]: Loss: 0.011
Training [9809/10000]: Loss: 0.006
Training [9810/10000]: Loss: 0.009
Training [9811/10000]: Loss: 0.008
Training [9812/10000]: Loss: 0.006
Training [9813/10000]: Loss: 0.008
Training [9814/10000]: Loss: 0.009
Training [9815/10000]: Loss: 0.009
Training [9816/10000]: Loss: 0.008
Training [9817/10000]: Loss: 0.007
Training [9818/10000]: Loss: 0.009
Training [9819/10000]: Loss: 0.011
Training [9820/10000]: Loss: 0.010
Training [9821/10000]: Loss: 0.008
Training [9822/10000]: Loss: 0.012
Training [9823/10000]: Loss: 0.012
Training [9824/10000]: Loss: 0.014
Training [9825/10000]: Loss: 0.008
Training [9826/10000]: Loss: 0.010
Training [9827/10000]: Loss: 0.010
Training [9828/10000]: Loss: 0.009
Training [9829/10000]: Loss: 0.010
Training [9830/10000]: Loss: 0.009
Training [9831/10000]: Loss: 0.009
Training [9832/10000]: Loss: 0.012
```

```
Training [9833/10000]: Loss: 0.011
Training [9834/10000]: Loss: 0.011
Training [9835/10000]: Loss: 0.007
Training [9836/10000]: Loss: 0.011
Training [9837/10000]: Loss: 0.011
Training [9838/10000]: Loss: 0.008
Training [9839/10000]: Loss: 0.010
Training [9840/10000]: Loss: 0.012
Training [9841/10000]: Loss: 0.011
Training [9842/10000]: Loss: 0.011
Training [9843/10000]: Loss: 0.010
Training [9844/10000]: Loss: 0.009
Training [9845/10000]: Loss: 0.007
Training [9846/10000]: Loss: 0.007
Training [9847/10000]: Loss: 0.007
Training [9848/10000]: Loss: 0.009
Training [9849/10000]: Loss: 0.007
Training [9850/10000]: Loss: 0.008
Training [9851/10000]: Loss: 0.010
Training [9852/10000]: Loss: 0.011
Training [9853/10000]: Loss: 0.006
Training [9854/10000]: Loss: 0.008
Training [9855/10000]: Loss: 0.012
Training [9856/10000]: Loss: 0.009
Training [9857/10000]: Loss: 0.007
Training [9858/10000]: Loss: 0.009
Training [9859/10000]: Loss: 0.009
Training [9860/10000]: Loss: 0.010
Training [9861/10000]: Loss: 0.009
Training [9862/10000]: Loss: 0.009
Training [9863/10000]: Loss: 0.010
Training [9864/10000]: Loss: 0.007
Training [9865/10000]: Loss: 0.008
Training [9866/10000]: Loss: 0.008
Training [9867/10000]: Loss: 0.005
Training [9868/10000]: Loss: 0.008
Training [9869/10000]: Loss: 0.011
Training [9870/10000]: Loss: 0.007
Training [9871/10000]: Loss: 0.007
Training [9872/10000]: Loss: 0.010
Training [9873/10000]: Loss: 0.012
Training [9874/10000]: Loss: 0.010
Training [9875/10000]: Loss: 0.006
Training [9876/10000]: Loss: 0.014
Training [9877/10000]: Loss: 0.013
Training [9878/10000]: Loss: 0.010
```

```
Training [9879/10000]: Loss: 0.011
Training [9880/10000]: Loss: 0.013
Training [9881/10000]: Loss: 0.007
Training [9882/10000]: Loss: 0.004
Training [9883/10000]: Loss: 0.009
Training [9884/10000]: Loss: 0.012
Training [9885/10000]: Loss: 0.006
Training [9886/10000]: Loss: 0.007
Training [9887/10000]: Loss: 0.005
Training [9888/10000]: Loss: 0.011
Training [9889/10000]: Loss: 0.007
Training [9890/10000]: Loss: 0.011
Training [9891/10000]: Loss: 0.011
Training [9892/10000]: Loss: 0.009
Training [9893/10000]: Loss: 0.011
Training [9894/10000]: Loss: 0.011
Training [9895/10000]: Loss: 0.009
Training [9896/10000]: Loss: 0.007
Training [9897/10000]: Loss: 0.007
Training [9898/10000]: Loss: 0.012
Training [9899/10000]: Loss: 0.007
Training [9900/10000]: Loss: 0.005
Test Loss: 0.064
Training [9901/10000]: Loss: 0.010
Training [9902/10000]: Loss: 0.011
Training [9903/10000]: Loss: 0.014
Training [9904/10000]: Loss: 0.012
Training [9905/10000]: Loss: 0.007
Training [9906/10000]: Loss: 0.008
Training [9907/10000]: Loss: 0.010
Training [9908/10000]: Loss: 0.007
Training [9909/10000]: Loss: 0.008
Training [9910/10000]: Loss: 0.010
Training [9911/10000]: Loss: 0.014
Training [9912/10000]: Loss: 0.012
Training [9913/10000]: Loss: 0.012
Training [9914/10000]: Loss: 0.012
Training [9915/10000]: Loss: 0.007
Training [9916/10000]: Loss: 0.009
Training [9917/10000]: Loss: 0.009
Training [9918/10000]: Loss: 0.011
Training [9919/10000]: Loss: 0.010
Training [9920/10000]: Loss: 0.007
Training [9921/10000]: Loss: 0.009
Training [9922/10000]: Loss: 0.008
Training [9923/10000]: Loss: 0.007
```

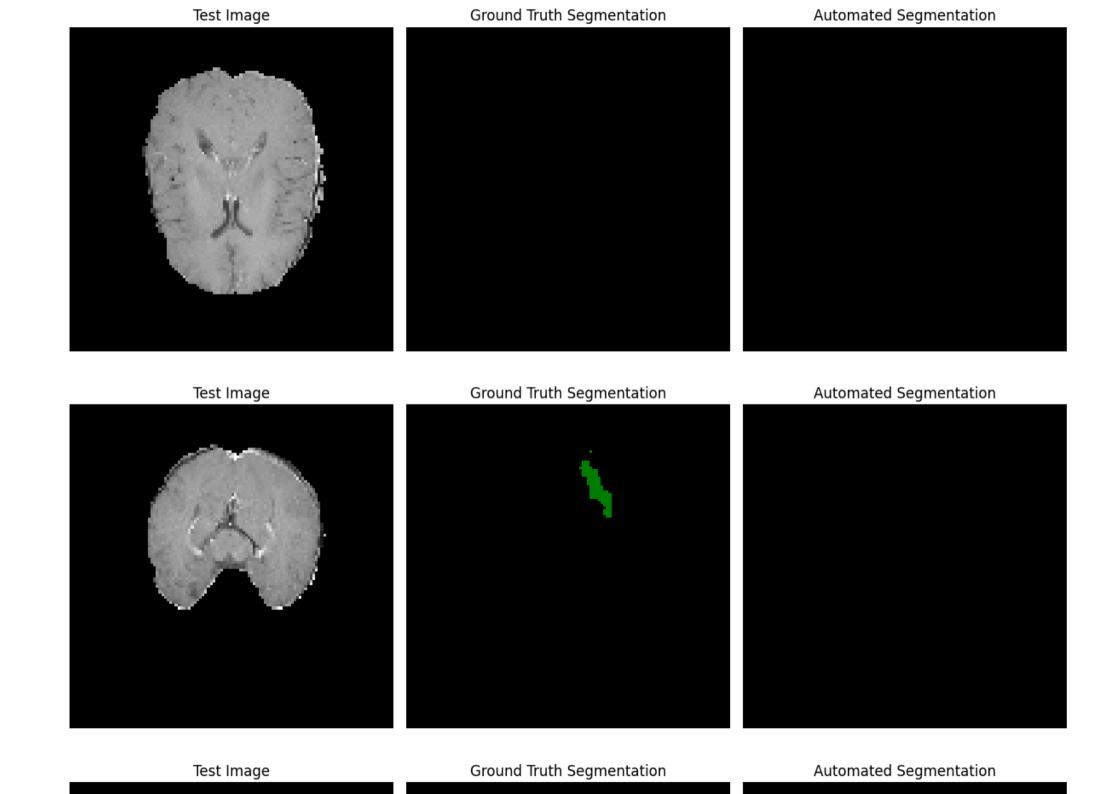
```
Training [9924/10000]: Loss: 0.007
Training [9925/10000]: Loss: 0.015
Training [9926/10000]: Loss: 0.010
Training [9927/10000]: Loss: 0.010
Training [9928/10000]: Loss: 0.007
Training [9929/10000]: Loss: 0.010
Training [9930/10000]: Loss: 0.009
Training [9931/10000]: Loss: 0.009
Training [9932/10000]: Loss: 0.012
Training [9933/10000]: Loss: 0.014
Training [9934/10000]: Loss: 0.010
Training [9935/10000]: Loss: 0.009
Training [9936/10000]: Loss: 0.010
Training [9937/10000]: Loss: 0.010
Training [9938/10000]: Loss: 0.015
Training [9939/10000]: Loss: 0.012
Training [9940/10000]: Loss: 0.014
Training [9941/10000]: Loss: 0.008
Training [9942/10000]: Loss: 0.011
Training [9943/10000]: Loss: 0.006
Training [9944/10000]: Loss: 0.012
Training [9945/10000]: Loss: 0.010
Training [9946/10000]: Loss: 0.010
Training [9947/10000]: Loss: 0.009
Training [9948/10000]: Loss: 0.015
Training [9949/10000]: Loss: 0.008
Training [9950/10000]: Loss: 0.013
Training [9951/10000]: Loss: 0.008
Training [9952/10000]: Loss: 0.008
Training [9953/10000]: Loss: 0.017
Training [9954/10000]: Loss: 0.009
Training [9955/10000]: Loss: 0.011
Training [9956/10000]: Loss: 0.015
Training [9957/10000]: Loss: 0.011
Training [9958/10000]: Loss: 0.013
Training [9959/10000]: Loss: 0.012
Training [9960/10000]: Loss: 0.009
Training [9961/10000]: Loss: 0.006
Training [9962/10000]: Loss: 0.004
Training [9963/10000]: Loss: 0.011
Training [9964/10000]: Loss: 0.011
Training [9965/10000]: Loss: 0.010
Training [9966/10000]: Loss: 0.009
Training [9967/10000]: Loss: 0.011
Training [9968/10000]: Loss: 0.013
Training [9969/10000]: Loss: 0.012
```

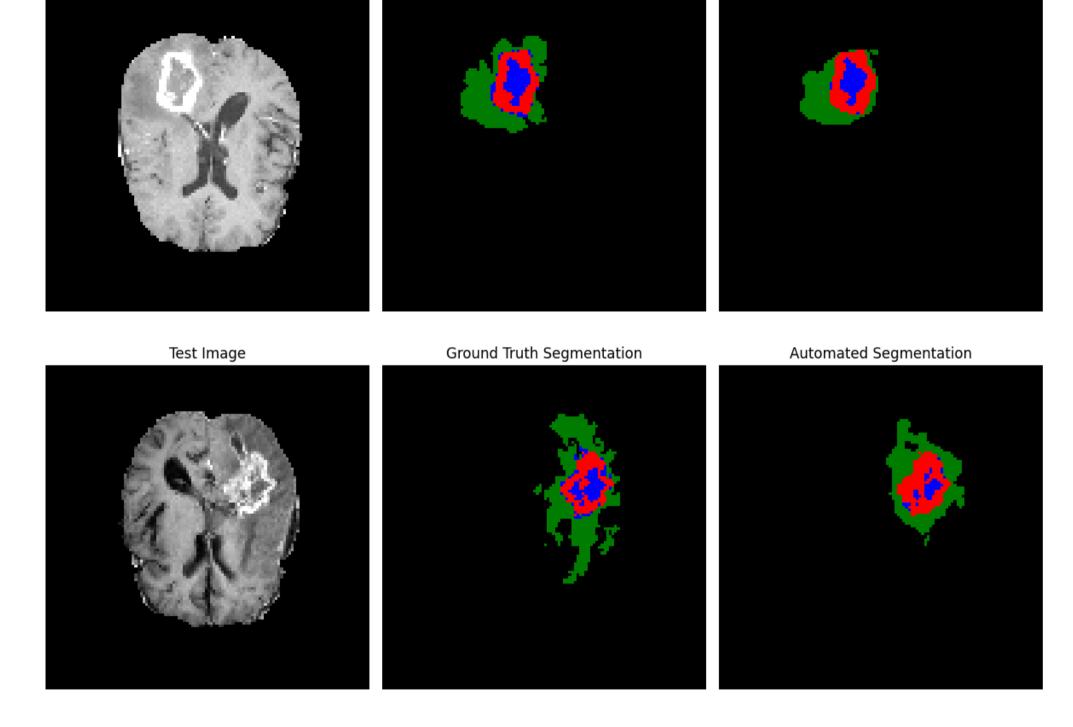
```
Training [9970/10000]: Loss: 0.009
Training [9971/10000]: Loss: 0.011
Training [9972/10000]: Loss: 0.009
Training [9973/10000]: Loss: 0.008
Training [9974/10000]: Loss: 0.004
Training [9975/10000]: Loss: 0.014
Training [9976/10000]: Loss: 0.010
Training [9977/10000]: Loss: 0.019
Training [9978/10000]: Loss: 0.008
Training [9979/10000]: Loss: 0.006
Training [9980/10000]: Loss: 0.007
Training [9981/10000]: Loss: 0.013
Training [9982/10000]: Loss: 0.006
Training [9983/10000]: Loss: 0.010
Training [9984/10000]: Loss: 0.013
Training [9985/10000]: Loss: 0.009
Training [9986/10000]: Loss: 0.007
Training [9987/10000]: Loss: 0.009
Training [9988/10000]: Loss: 0.006
Training [9989/10000]: Loss: 0.008
Training [9990/10000]: Loss: 0.008
Training [9991/10000]: Loss: 0.008
Training [9992/10000]: Loss: 0.009
Training [9993/10000]: Loss: 0.008
Training [9994/10000]: Loss: 0.012
Training [9995/10000]: Loss: 0.010
Training [9996/10000]: Loss: 0.013
Training [9997/10000]: Loss: 0.006
Training [9998/10000]: Loss: 0.013
Training [9999/10000]: Loss: 0.008
Training [10000/10000]: Loss: 0.007
Test Loss: 0.069
Training took 495.031s in total.
```

5. Deploy the trained model to a random set of 4 test images and visualise the automated segmentation.

You can show the images as a 4 x 3 panel. Each row shows one example, with the 3 columns being the test image, automated segmentation and ground truth segmentation.

```
fig, axes = plt.subplots(4, 3, figsize=(12, 18))
    for ax row, (image, label map) in zip(axes, zip(images, labels)):
        # Plotting the test image.
        ax row[0].imshow(image, cmap=cmap brain mr)
        ax row[0].axis('off')
        ax row[0].set title('Test Image')
        # Plotting the ground truth segmentation.
        ax row[1].imshow(label map, cmap=cmap segmentation, vmin=0, vmax=3)
        ax row[1].axis('off')
        ax row[1].set title('Ground Truth Segmentation')
        # Perform automated segmentation
        image tensor = torch.from numpy(image).unsqueeze(0).unsqueeze(0).to(device, dtype=torch.float32)
        logits = model(image tensor)
        , predicted labels = torch.max(logits, dim=1)
        predicted labels = predicted labels.squeeze().cpu().numpy()
        # Plotting the automated segmentation.
        ax_row[2].imshow(predicted_labels, cmap=cmap_segmentation, vmin=0, vmax=3)
        ax row[2].axis('off')
        ax row[2].set title('Automated Segmentation')
    plt.tight layout()
    plt.show()
# Get a random set of 4 test images and labels
test images, test labels = test set.get random batch(4)
# Visualize the automated segmentation
visualize segmentation(test images, test labels, model)
### End of your code ###
```





6. Discussion. Does your trained model work well? How would you improve this model so it can be deployed to the real clinic?

In []:	At first glance, it appears the trained model is able to differentiate the different parts of the brain MR with reasonable accuracy, labell
	edema, non-enhancing and enhancing tumours similar to the ground truth segmentation. The model does not veer far from the ground truth, eit
	a class or under classifying slightly, as apparent in one of the test cases. It also appears that the average test loss equates to about 7%
	error given the scope of this model. The loss values are relatively stable towards the end of training, suggesting that the model has conve
	The loss values during training appear to fluctuate around a relatively low value, with occasional spikes. This suggests that the model is
	overall, as the loss is decreasing over iterations.

However, a 7% average loss is not fit for a clinical environment as it may lead to misdiagnosis or confusion, where patients vary in the magnetic improvements that can be taken to reduce test loss, and also improve the output segmentation of the model include:

- Augmenting the training images with some image rotation, translation and scaling. This increases the diversity and difficulty of the train model may learn to better generalise an unknown test set, and increase in robustness.
- Try different variations of the UNet model, such as UNet+ to better capture the local and global features of the training and test images
- Exploring alternative loss functions or custom loss functions tailored to the specific characteristics of the segmentation task can potential optimization and convergence of the model.