

```
In [1]: # Set up matplotlib.
        %matplotlib inline
```

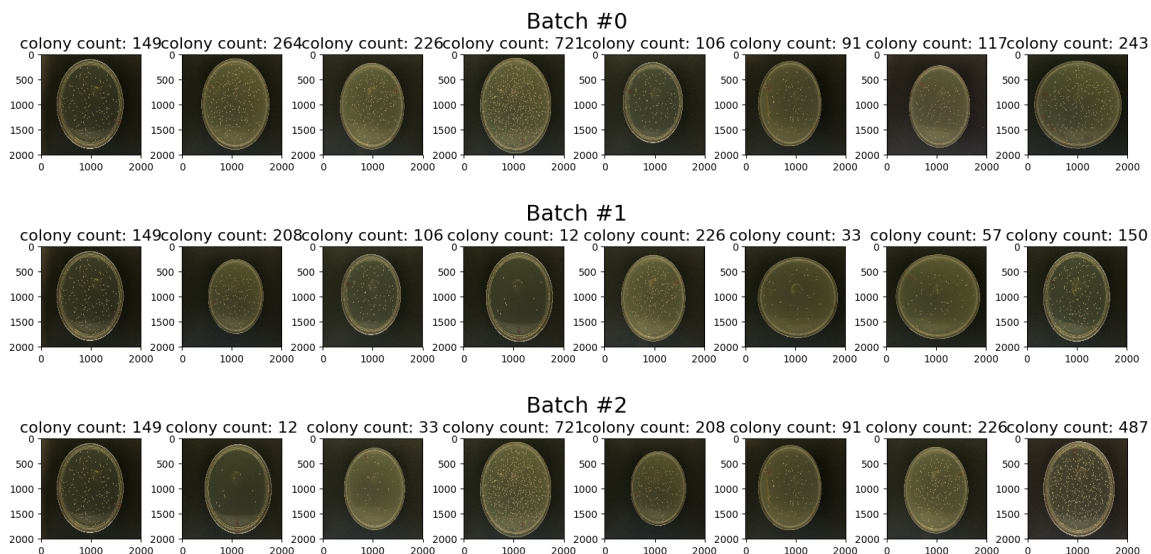
```
In [30]: # Import our package.
import sys, importlib
sys.path.append("/home/ubuntu/cell_counting")

from src import dataset, visualization
importlib.reload(dataset)
importlib.reload(visualization)
```

```
Out[30]: <module 'src.visualization' from '/home/ubuntu/cell_counting/src/visualization.py'>
```

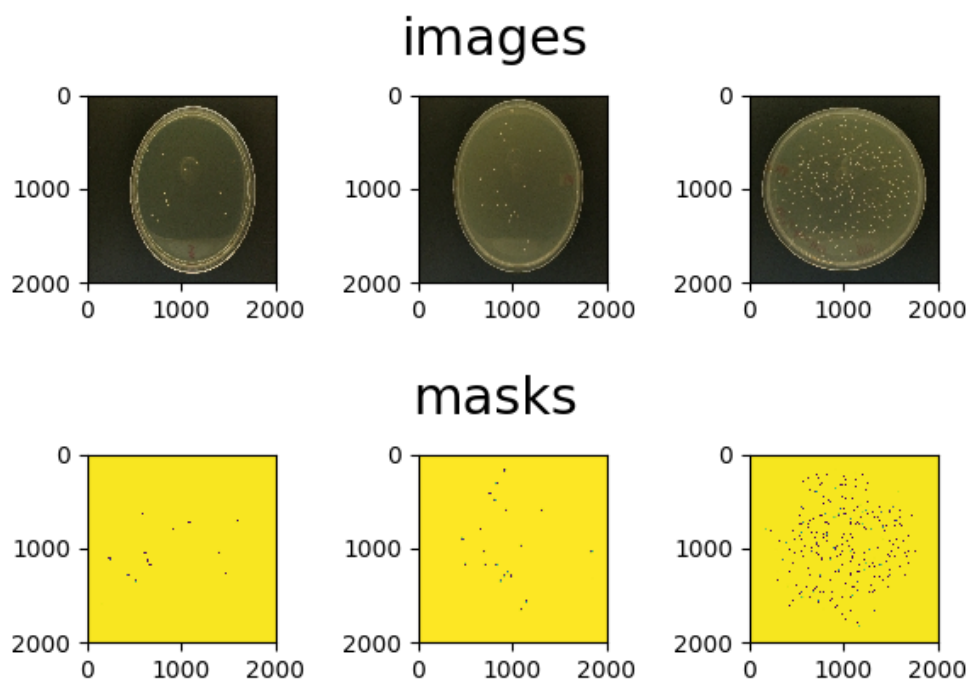
```
In [3]: # Load the dataset, processing it as a collection of image-count pairs.
images_counts = dataset.Dataset(3)
images_counts.load_images_and_excel_labels("/home/ubuntu/cell_counting/data/easy/raw/images",
                                           "/home/ubuntu/cell_counting/data/easy/raw/Plates.xlsx", "A", "C",
                                           (2000, 2000))
```

```
In [4]: # Plot a few batches.
for batch in range(3):
    inputs, outputs = images_counts.get_batch(8)
    visualization.show_image_grid(inputs, 1, 8, 2.5, 16, "Batch #{0}".format(batch),
                                  ["colony count: {0}".format(count) for count in
                                   outputs])
```



```
In [31]: # Load the dataset, processing it as a collection of image-mask pairs.
images_masks = dataset.Dataset(1)
images_masks.load_image_mask_pairs("/home/ubuntu/cell_counting/data/easy/raw/images",
                                   "/home/ubuntu/cell_counting/data/easy/raw/masks",
                                   (2000, 2000))
```

```
In [32]: # Plot a batch.
inputs, outputs = images_masks.get_batch(3)
visualization.show_image_grid(inputs, 1, 3, 2, 6, "images")
visualization.show_image_grid(outputs, 1, 3, 2, 6, "masks")
```



```
In [ ]: # Close the datasets.
images_counts.close()
images_masks.close()
```