Quantifying Images

```
def quantify_image(image):
  features = feature.hog(image, orientations=9, pixels_per_cell=(13, 13), cells_per_block=(4, 4), transform_sqrt=True,
block_norm="L1")
  return features

def load_split(path):
  imagePaths = list(paths.list_images(path))
  data = []
  labels = []

  for imagePath in imagePaths:
    image = cv2.imread(imagePath)
    label = imagePath.split(os.path.sep)[-2]
    image = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)
    image = cv2.resize(image, (200, 200))
    image = cv2.threshold (image, 0, 255,
    cv2.THRESH_BINARY_INV | cv2.THRESH_OTSU) [1]
    features = quantify_image(image)
    data.append(features)
    labels.append(label)
  return (np.array(data), np.array(labels))
```