categorization_labeling

March 21, 2016

```python
In [1]: import json
        import nltk
```

```python
In [2]: product_id = 'B00AW2P98E'
        reviewFile = open('AmazonReviews/cameras/{0}.json'.format(product_id), 'r')
        reviews = json.load(reviewFile)

        print 'This product has {0} reviews.'.format(len(reviews['Reviews']))
```

```
This product has 54 reviews.
```

```python
In [3]: category_dict={
            '1':'price',
            '2':'pictures',
            '3':'video',
            '4':'zoom',
            '5':'size',
            '6':'design',
            '7':'battery',
            '8':'screen',
            '9':'detection',
            '10':'ease of use',
            '11':'quality',
            '12':'other features',
            '13':'no feature'
        }
```

```python
In [4]: output_string = ''
        sent_detector = nltk.data.load('tokenizers/punkt/english.pickle')
        for review in reviews['Reviews'][:1]:
            print review['Title']
            sentences = sent_detector.tokenize(review['Content'])
            print 'This review has {0} reviews.'.format(len(sentences))
            # start labeling
            for sentence in sentences:
                category = category_dict[raw_input(sentence)]
                output_string += category + '***' + sentence + '\n'
```

```
Compact and versatile camera with a 3 inch touch-enabled screen
This review has 20 reviews.
The Nikon Coolpix S6400 is very small, measuring 3.8 x 2.4 x 1.1 inches and weighs about 5 ounces.5
The 12X lens extends from a 35 mm equivalent focal length of 25 mm to 300 mm.4
The 1/2.3 inch image sensor is typical of digital cameras of this class.13
Because the sensor's low light performance is proportional to its size (generally, the large the sensor
```

It is amazing that Nikon can squeeze a 12X lens into a case that is just 1.1 inches thick.The Coolpix S
A 3-inch screen can be fitted here mainly because of the minimization of real buttons.8
This also leaves very little space to place your thumb when holding the camera; luckily the camera is ve
I always tie a hand strap between the camera and its case (not included), so that I can hold the case wi
This is a safety arrangement to make sure that I am less likely to drop my camera to the ground when som
For the Coolpix S6400, you can typically get two EN-EL19 compatible batteries with free shipping for le
This means the battery needs to be charged inside the camera, like so many others.7
This problem can be solved with just a little cost.1
While Nikon's MH-66 battery charger costs $42.95 retail, you can buy a third party external charger for
I bought the S6400 because I don't need this feature and the S6400 has a better bang-for-the-buck.Update
Upon pressing the on/off button to turn on the camera, I need to wait about 8 seconds before I can press
Moreover, if the camera goes into energy-saving mode after the default 1-minute time (user changeable),
Touch control may not be as accurate and reliable as physical button.12
I cannot browse pictures quickly, as the touch interface simply won't allow it, furthermore, navigating
The auto focus lens is fast and sharp, and the colors are very nice.4
Pictures taken with flash always look evenly lit and well-exposed.12

```
In [5]: output_file = open('{0}_labeled.txt'.format(product_id), 'w')
        output_file.write(output_string)
        output_file.close()

In [ ]:
```