Sentiment Analysis of Amazon Product Reviews

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DESCRIPTION OF AMAZON PRODUCT REVIEWS DATASET

BRIEF DESCRIPTION

This dataset consists of online reviews for Amazon products; from 1996 to 2017. The core products under discussion Baby, Clothing, Shoes, Jewelry, Health and Personal Care. The data is distributed in the JSON format with the reviewerID, product ID, reviewerName, helpfulness rating, reviewText, overall rating of the product, summary of the review, unixReviewTime and raw time of the review.

Naming Convention

There are 2 text files with the product reviews data. 'Baby.txt' and 'clothing_jewlery_shoes.txt' are the names of files. As the names suggest, the content of each of these files is related to baby products and clothing, jewelry and shoes respectively.

Number of Documents

The 142.8 million reviews have been consolidated into two files. The size of Baby.txt is almost 112 MB and that of clothing_shoes_jewelry.txt is 139 MB.

PRE-PROCESSING

EXPLANATION

To perform the sentiment analysis, I chose the file 'clothing_shoes_jewelry.txt'. Because of the huge size of the reviews, in order to reduce the processing time, the reviews data under consideration has been reduced. It has been made specific to the year 2013.

STEP 1: Read the entire content from the file 'clothing shoes jewelry.txt'.

STEP 2: Extraction of review text

Considering the presence of other metadata in the file, we need to extract only the review text. To do so, I designed the regular expression pattern "reviewText[:](.+)" and retrieved only the review text. Additionally, the trailing new line character was stripped off for better processing in future.

STEP 3: Extraction of review year

As mentioned earlier, my year of interest is '2013', To filter out, the reviews of this year I designed another similar regular expression 'reviewTime[:](.+)'. This gives the matched text as '08 17, 2013'. The obtained matched tokens were further split based on comma and the second part was extracted. This corresponds to the year of the review.

After performing the above steps, the total number of reviews was found to be 128,518. I reduced them into 10, 000 for our analysis. On checking the number of individual sentences in these reviews it was 40,702.

Because we will be dealing with this size of data, it is better to eliminate as much noise and unnecessary data as possible. As part of the pre-processing,

STEP 3: The sentences were converted into lower case.

STEP 4: When I explored the review sentences, I found that some of them were merely of length 1 and consisted of a single punctuation mark. This kind of tokenization must be because of the sentence tokenizer from NLTK. So, I removed such sentences and thereby, decreased the final number of sentences for analysis from 40,702 to 40,415. I did not remove the stopwords from the reviews in order to retain the overall meaning of the sentence with the presence of stopwords.

SENTIMENT ANALYSIS

CORPUS DEFINITION

The first step in any classification problem is to obtain the training corpus of words. Here we are making use of the Movie review dataset from the sentence_polarity corpus that consists of already labeled words. For our current analysis, we intend to use 2000 words from this corpus and particularly, the most frequently occurring words.

ALGORITHM FOR CURRENT SENTIMENT ANALYSIS

The following common steps are used for all the types of sentiment classification that we will be performing as part of this assignment. Except for the features that we will be using the remaining details remain the same.

- 1. We apply the specific function on the above corpus to obtain the intended features sets in the required format.
- 2. We split this feature sets into training and test datasets, preferably the 90/10 split.
- 3. The classifiers such as Naïve-Bayes, DecisionTree are trained on the training dataset.
- 4. We determine the baseline accuracy of the classifier using the test dataset.
- 5. To get a better picture of the performance of the classifier model, I defined the function that can display the precision, F-measure and recall values.
- 6. Apply the same function as used in the step 1, on our Amazon product review dataset to obtain it in the format of required feature sets.
- 7. The classifier model is now tested on these Amazon product review feature sets to classify each of the sentences into positive and negative sentiments.
- 8. The classified positive and negative sentences are added into separate lists. These are written into the output text files of the format 'pos_model_n' and 'neg_model_n' where 'n' is the model number.

The model performance values and other details of the model are tabulated after the explanation of all models.

BASELINE MODEL 1 – WORD FEATURES

Here, we choose the unigram or BOW features wherein the 'contains(keyword)' acts as the feature. The feature of interest is basically the presence of the word in the reviews. This is a simple model that acts as our baseline for comparison of the future models.

MODEL 2 – SUBJECTIVITY COUNT FEATURES

Here, we make use of the Subjectivity lexicon of the MPQA project wherein each word is mapped to a list containing the strength, POSTag, whether it is stemmed and the polarity. The feature extraction function maintains two features 'positivecount' and 'negativecount'. These features correspond to the count of all the positive and negative subjectivity words, where each weakly subjective word is counted once and each strongly subjective word is counted twice.

MODEL 3 – NEGATION FEATURES

It is obvious that we have negation words preceding the positive words which makes the meaning as whole negative. To handle such kind of scenarios we make use of this feature extraction function that maintains the two features 'contains(NOTword)' and 'contains(word)'. We maintain a negation word list as well, that contains the most commonly used words (other than those ending with n't). While parsing the given corpus, the function keeps adding the word features for the words, but as soon as the word follows a negation words, it changes the feature to negated word.

The next set of models concentrate on the same features but with a pruned stopwords list. The stopwords list is modified by removing the negation words and retaining the rest of the words

MODEL 4 – WORD FEATURES WITH STOPWORDS REMOVED

The feature function remains the same, but the input corpus will now not contain the stopwords. This presents a considerable change in the classification performance.

MODEL 5 – SUBJECTIVITY FEATURES WITH STOPWORDS REMOVED

The process remains the same except for the modified trained corpus.

MODEL 6 – NEGATION FEATURES WITH STOPWORDS REMOVED

The feature extraction function involves the same processing except for the input feature sets (without stopwords).

MODELS COMPARISON

MODEL NAME	CLASSIFIER	ACCURACY	OTHER MEASURES	NUMBER OF POSITIVE SENTENCES	NUMBER OF NEGATIVE SENTENCES
Model-1: Word features	Naïve- Bayes	0.73	Positive precision: 0.8032 Positive recall: 0.7908 Positive F-measure: 0.7969 Negative precision: 0.7940 Negative recall: 0.8062 Negative F-measure: 0.80007	11710	28705
Model-2: Subjectivity Features	Decision Tree	0.6235	Positive precision: 0.9193 Positive recall: 0.8784 Positive F-measure: 0.8984 Negative precision: 0.8836	19874	20541

			Negative recall: 0.9229 Negative F-measure: 0.9028		
Model 3: Negation Features	Naïve- Bayes	0.764	Positive precision: 0.9250 Positive recall: 0.9101 Positive F-measure: 0.9175 Negative precision: 0.9115 Negative recall: 0.9262 Negative F-measure: 0.91886	13478	26937
Model-4: Word Features without stopwords	Naïve- Bayes	0.752	Positive precision: 0.8014 Positive recall: 0.7857 Positive F- measure: 0.7935 Negative precision: 0.7898 Negative recall: 0.8052 Negative F- measure: 0.7975	11869	28546

Model-5:	Decision	0.663	Positive	19846	20569
Subjectivity	Tree		precision:		
Features			0.9491		
without			Positive recall:		
stopwords			0.9077		
1			Positive F-		
			measure:		
			0.9279		
			Negative		
			precision:		
			0.9115		
			Negative		
			recall: 0.9514		
			Negative F-		
			measure:		
			0.9310		
Model-6:	Naïve-	0.766	Positive	13784	26631
Negation	Bayes		precision:		
features			0.9450		
without			Positive recall:		
stopwords			0.9221		
			Positive F-		
			measure:		
			0.9334		
			Negative		
			precision:		
			0.9239		
			Negative		
			recall: 0.9463		
			Negative F-		
			measure:		
			0.9350		

RESULTS ANALYSIS

Here are few of my observations and analysis based on the above exercise,

The above tabular results depict that the Model-6: Negation features with stopwords removed has the maximum accuracy. Additionally, the precision, recall and F-measure values for both the positive and the negative features are shown to be better when compared to the models. At the same time, in case of models such as Model-1, Model-3 even thought their accuracy values crossed 70% the precision and recall are shown to remain in the range of 0.70 to 0.80. Unlike the models – Model-2 & Model-4 with Decision Tree classifier were found to have comparatively lesser accuracy but a better precision, recall values crossing 0.85. This shows that accuracy alone cannot be used as the determiner of the model performance.

Also, I observed that in case of the models using Decision Tree classifier the difference in the number of classified positive and negative sentences is considerably less – around hundreds. Whereas in case of the models with Naïve-Bayes classifier possess a larger difference – more than 10,000. These difference values tell us that the model might be overfitting and is acting like a random classifier with half of them as positive and the other half as negative when tested on the new test dataset.

Considering the model trained on a Movie review dataset is being used on a different domain Amazon Product review dataset, there will be significant error introduced. For example, in the Movie reviews, 'terrific' can be used in the context of a very good movie and classified as positive. But in the context of product reviews the same word gives a negative sense; classifying it as negative sentiment here would be wrong.

MY EXPERIMENT

Procedure –

CountVectorizer – I made use of this transformer to convert the entire corpus of movie reviews into a vector containing the number of occurrences of each word in the review sentence. Here, I put the constraint for counting and considering only those words occurring in more than 3 documents.

Tfidf transformer – To overcome the effect of certain words such as stopwords that occur very frequently and certain other words which occur in few documents but are of great importance I used this Tfidf transformer.

SVC from sklearn – I used the svm classification from the Scikit learn python library to train the model.

Then I classified the product reviews using the above model.

With the above steps, I was able to obtain an accuracy of 0.49413970932958273. This does not seem like a very good performance considering the fact that I have not added any features except for the word features on this model. I observed that the processing time using this kind of approach was comparatively better than that using nltk.

APPENDIX

PYTHON PROCESSING SCREENSHOTS

1. The preprocessing code,

2. A glimpse of the final review set after preprocessing,

```
In [3]:

#The final list of reviews contains 128518
print("The total number of reviews",len(final_reviews))

#Retreving 10,000 reviews from this list
final_reviews = final_reviews[:10000]
print("The final number of reviews used for processing", len(final_reviews))

The total number of reviews 128518
The final number of reviews used for processing 10000

In [23]: final_reviews[:5]

Out[23]: ['I bought this for my 4 yr old daughter for dance class, she wore it today for the first time and the teacher thought it was a dorable. I bought this to go with a light blue long sleeve leotard and was happy the colors matched up great. Price was very go od too since some of these go for over $15.00 dollars.',
    'What can I say.' my daughters have it in orange, black, white and pink and I am thinking to buy for they the fuccia one. It is a very good way for exalt a dancer outfit: great colors, comfortable, looks great, easy to wear, durables and little girls l ove it. I think it is a great buy for costumer and play too.',
    'My daughter liked this, and it with her costume, but she would have liked it to be a bit fuller.',
    'Full and well stitched. This tutu is a beautiful purple color that looks just like the picture. It looks just adorable on o ur little fairy.',
    'This was a gift for a two year old and a five year old. The girls squealed upon opening the box, they grabbed the tutus, put them on, and wore them the rest of the day. The tutus seem to be well made, and can stand up to handling by little princesses. I recommend these tutus.']
```

3. Model-1 with its accuracy

```
In [12]: #Define the function for word features
def document_features(sentence, words):
    unique_words = set(sentence)
    features = {}
    for word in words:
        features['contains({})'.format(word)] = (word in unique_words)
    return features

In [13]: #Obtaining the feature set for the sentences
    feature_set_1 = [(document_features(sent, freq_word_features), label) for (sent, label) in sents_with_labels]

In [14]: #Split the feature set data into training and test data
    train_feature_set_1, test_feature_set_1 = feature_set_1[1000:], feature_set_1[:1000]
    #Apply NB classification on the training feature set
    classifier_1 = nltk.NaiveBayesClassifier.train(train_feature_set_1)

In [15]: #Determine the Accuracy
    print("The baseline accuracy of the first word features",nltk.klassify.accuracy(classifier_1, test_feature_set_1))
    The baseline accuracy of the first word features 0.73
```

4. Model-2, with its accuracy

5. A glimpse of the positive and negative sentences classified using model-2

6. Model-3 with accuracy and other measure,

```
In [18]: #Obtaining the feature set for the sentences
feature_set_3 = [(NOT_features(sent, freq_word_features, negationwords), label) for (sent, label) in sents_with_labels]

In [19]: #Split the feature set data into training and test data
train_feature_set_3, test_feature_set_3 = feature_set_3[2000:], feature_set_3[:2000]

#Apply NB Classification on the training feature set
classifier_3 = nltk.NaiveBayesClassifier.train(train_feature_set_3)

In [20]: #Determine the Accuracy
print("The accuracy after adding Negation features ",nltk.classify.accuracy(classifier_3, test_feature_set_3))

The accuracy after adding Negation features 0.764

In [46]: #Display the other measures
display_accuracy_measures(feature_set_3, classifier_3)

Positive precision: 0.9250714966634891
Positive recall: 0.9116748679273827
Negative precision: 0.9115746732278567
Negative precision: 0.9115746732278567
Negative recall: 0.9262802476083286
Negative F-measure: 0.9188686267212505
```

7. Model-4 with its function and accuracy

```
In [25]: #Feature 4 : Removing the stopwords
           #Remove the negated stopwords from the original stopwords list
           stopwords = nltk.corpus.stopwords.words('english')
new_stopwords_list = [word for word in stopwords if word not in negationwords]
           #Obtain the most frequent words from these sentences
           #Retreiving the most frequent 2000 words
           all_sents = [word for (sent, label) in sents_with_labels for word in sent]
all_sents_freq = nltk.FreqDist(all_sents)
most_freq_words = all_sents_freq.most_common(2000)
           new_freq_word_features = [word for (word,freq) in most_freq_words]
In [26]: #Re-running all the classifiers with the new feature set
           #Word Features
           #Obtaining the feature set for the sentences
           new_feature_set_1 = [(document_features(sent, new_freq_word_features), label) for (sent, label) in sents_with_labels]
           #Split the feature set data into training and test data
           new_train_feature_set_1, new_test_feature_set_1 = new_feature_set_1[1000:], new_feature_set_1[:1000]
           #Apply NB Classification on the training feature set
new classifier 1 = nltk.NaiveBayesClassifier.train(new train feature set 1)
           #Determine the Accuracy
           print("The new accuracy with word features after removing stopwords ",nltk.classify.accuracy(new_classifier_1, new_test_feature_si
           The new accuracy with word features after removing stopwords 0.752
```

8. Model-5 with accuracy and other measures

```
In [56]: #Obtaining the feature set for the sentences
           new_feature_set_2 = [(SL_features(sent, new_freq_word_features, SL), label) for (sent, label) in sents_with_labels]
            #Split the feature set data into training and test data
           new_train_feature_set_2, new_test_feature_set_2 = new_feature_set_2[1000:], new_feature_set_2[:1000]
           #Apply NB Classification on the training feature set
new classifier 2 = nltk.DecisionTreeClassifier.train(new train feature set 2)
           #Determine the Accuracy
print("The new accuracy with Subjectivity Count features after removing stopwords ",nltk.classify.accuracy(new_classifier_2, new_
           The new accuracy with Subjectivity Count features after removing stopwords 0.663
In [57]: #Create the positive and negative lists
pos_sentence_list_5 = []
neg_sentence_list_5 = []
                if(new_classifier_2.classify(SL_features(nltk.word_tokenize(sent),new_freq_word_features, SL)) == 'pos'):
    pos_sentence_list_5.append(sent)
                elif(new_classifier_2.classify(SL_features(nltk.word_tokenize(sent),new_freq_word_features, SL)) == 'neg'):
                    neg_sentence_list_5.append(sent)
In [58]: #Display the other measures for the classifier
display_accuracy_measures(new_feature_set_2, new_classifier_2)
           Positive precision: 0.9491957630443311
           Positive recall: 0.907709622960045
           Positive F-measure: 0.927989260715313
           Negative precision: 0.9115744069015097
           Negative recall: 0.9514162446070156
           Negative F-measure: 0.9310692978430474
```

9. Model-6, with accuracy and other measures

```
In [61]: #Obtaining the feature set for the sentences
             new_feature_set_3 = [(NOT_features(sent, new_freq_word_features, negationwords), label) for (sent, label) in sents_with_labels]
             #Split the feature set data into training and test data
            new_train_feature_set_3, new_test_feature_set_3 = new_feature_set_3[1000:], new_feature_set_3[:1000]
            #Apply NB Classification on the training feature set
new_classifier_3 = nltk.NaiveBayesClassifier.train(new_train_feature_set_3)
            #Determine the Accuracy
            print("The new accuracy with Negation features after removing stopwords ",nltk.classify.accuracy(new_classifier_3, new_test_featu
            4
            The new accuracy with Negation features after removing stopwords 0.766
In [62]: #Create the positive and negative lists
pos sentence list 6 = []
             neg_sentence_list_6 = []
             for sent in final_sent_list:
                 if(new_classifier_3.classify(NOT_features(nltk.word_tokenize(sent),new_freq_word_features, negationwords)) == 'pos'):
    pos_sentence_list_6.append(sent)
elif(new_classifier_3.classify(NOT_features(nltk.word_tokenize(sent),new_freq_word_features, negationwords)) == 'neg'):
                       neg_sentence_list_6.append(sent)
In [65]: #Display the other measures for the classifier
display_accuracy_measures(new_feature_set_3, new_classifier_3)
            Positive precision: 0.9450211457131872
Positive recall: 0.9221534421309323
            Positive F-measure: 0.9334472609892718
Negative precision: 0.923992673992674
            Negative recall: 0.9463515287938473
            Negative F-measure: 0.9350384579742378
```

10. Model -7, with its accuracy

OUTPUT

NOTE: Considering the large output that are generated, only a glimpse of the results has been included here. The output files containing the entire set of results are attached with this report separately.

REVIEW SET AFTER PREPROCESSING

['i bought this for my 4 yr old daughter for dance class, she wore it today for the first time and the teacher thought it was adorable.',

'i bought this to go with a light blue long sleeve leotard and was happy the colors matched up great.', 'price was very good too since some of these go for over \$15.00 dollars.',

'what can i say... my daughters have it in orange, black, white and pink and i am thinking to buy for they the fuccia one.'.

'it is a very good way for exalt a dancer outfit: great colors, comfortable, looks great, easy to wear, durables and little girls love it.',

'i think it is a great buy for costumer and play too.',

'my daughter liked this, and it with her costume, but she would have liked it to be a bit fuller.',

'full and well stitched.',

'this tutu is a beautiful purple color that looks just like the picture.',

'it looks just adorable on our little fairy.',

'this was a gift for a two year old and a five year old.',

'the girls squealed upon opening the box, they grabbed the tutus, put them on, and wore them the rest of the day.',

'the tutus seem to be well made, and can stand up to handling by little princesses.',

'i recommend these tutus.',

'perfect for my budding grand daughter ballerina!',

'beautiful vibrant color.',

'fits great and easy to clean!',

'i bought several more colors!',

'nice and puffy tutu skirt.',

'i would recommend this for girls under 10 yr. old.',

'it will be too short and small for older girls.',

bought this for my niece as part of her fairy outfit.',

'she loves it and wears it all the time.',

'well made for the price.',

'our granddaughters are all very girlie, so when the youngest one received this for christmas, they all wanted it!']

POSITIVE SENTENCES BY MODEL-1

i bought this for my 4 yr old daughter for dance class, she wore it today for the first time and the teacher thought it was adorable.

i bought this to go with a light blue long sleeve leotard and was happy the colors matched up great.

it is a very good way for exalt a dancer outfit: great colors, comfortable, looks great, easy to wear, durables and little girls love it.

my daughter liked this, and it with her costume, but she would have liked it to be a bit fuller.

full and well stitched.

the girls squealed upon opening the box, they grabbed the tutus, put them on, and wore them the rest of the day.

perfect for my budding grand daughter ballerina!

beautiful vibrant color.

fits great and easy to clean!

nice and puffy tutu skirt.

bought this for my niece as part of her fairy outfit.

great color and fit for a 2 year old as well as her aunt who is 30!

it is suitable for an adult though.

got another brown shining image jewelry case and it's fine!

really nice box, a bit cheaply made.

it is made of carboard with pleather.

every inch is useable space for jewelry & very compact, which is a nice feature.

NEGATIVE SENTENCES BY MODEL-1

price was very good too since some of these go for over \$15.00 dollars.

what can i say... my daughters have it in orange, black, white and pink and i am thinking to buy for they the fuccia one.

i think it is a great buy for costumer and play too.

this tutu is a beautiful purple color that looks just like the picture.

it looks just adorable on our little fairy.

this was a gift for a two year old and a five year old.

the tutus seem to be well made, and can stand up to handling by little princesses.

i recommend these tutus.

i bought several more colors!

i would recommend this for girls under 10 yr. old.

it will be too short and small for older girls.

she loves it and wears it all the time.

well made for the price.

our granddaughters are all very girlie, so when the youngest one received this for christmas, they all the elastic waist will expand with her as she grows.

the minute i saw this my heart skipped a beat.

what a nice case to sort my collection.

i love all the compartments and the layout too.

you will love this color too.

if this is a gift do not hesitate.

it will please even the most fussy, as i am.

the price is fair if you check around as i did.

seems well made too.

not meant as a toy.

this is for serious jewelry lover's.

buy it.....

i already own this particular shining image jewelry box in brown, so this was my second buy.

it arrived with some of the leather scratched, even though it looked like i was the first one opening the box.

this particular color pink also looked pretty bad in person.

POSITIVE SENTENCES BY MODEL-2

these shoes are so very nice.

as well as attractive.

well worth the price of 55 dollars.

this product is excellent!

after 5 months of just average wear they have developed a hole in the side interior of one shoe.needless to say i would not be purchasing this product in the future.

therefore, the quality could be better n i just have to say you just have to hope the making of these sneakers n shoes will try harder to make them as best as possible!that's all i can relate.

they are a great fit, are very comfortable, and seem to be quite durable.

outstanding g shoes mouthpiece and quality.

i recommend these shoes.outlastallothers perhaps not the most attractive of the lot but a very masculine shoe

however, it looked good and was comfortable.

they are durable shoes though.

these shoes fit great.

i have very wide big feet 5e.

these don't look super expensive, but they are nice looking casual shoes.

fits great, feels great, and lasts long.

they look great with jeans or khakis, and will last a long time if they are anything like my past rockports. these shoes fit true to size and are very comfortable.

i have several pairs of these shoes and they are great.

i got this in a 9.5 and returned it as the size was a little large.

i got a half size smaller and it fits great.

then again that just about says it all for rockport's products

the quality is great.

and if he is happy i am happy.

they are a great fit and a great price.

stores rarely have this waist size and shopping for jeans in the boys department will get you a wrangler size 16, which should be 28 x 31, but does not fit the same as a men's jean.

these will look nice for a couple of years with heavy wear.

wrangler is a top grand.

bought this as a gift and haven't heard any feedback yet but wrangler has the best quality and fit.

i have high arches and wear orthodics in my shoes for extra support.

i bought both.let's face it, they are not the most attractive shoes...

however, in the summertime, when it is hot - your feet will sweat in the boston!

so i bought the arizona for hot days/shorts and the boston for cool days/pants.again, they are not stylish or attractive, but they are comfortable.

and they will get more comfortable with age.

as you wear them they will mold around your feet, making them even more comfortable.regarding sizing: the suede stretches.

but the suede is definitely more comfortable.

NEGATIVE SENTENCES BY MODEL-2

that's where rosetta stone comes in.rosetta stone tries to be more than just a computer program.

instead it's interactive, and is a cross between software and an at-home classroom spanish lesson.

the software helps one learn how to pronounce the words and practice what you've learned to help retain it.

when i took a spanish class, some of the students flew ahead of me, while the rest of us were just trying to keep up.

although i haven't kept up with the lessons as i should have, i have learned a lot of italian with only the first level.

i have the older version too, and i like the new audio-visual matching; it's different from the older version and moves a lot faster with this version, you can move at your own pace a lot easier, and see your mistakes sooner, which is helpful not only does this have visual learning, and learning by audio, but also by speaking, and comparing your pronunciation to that of a native speaker, which i think is the most helpful part of the software.

i love rosetta stone it is easy to use in a few quick lessons you are speaking italian.

i like how the lessons are short and easy to finish.i like the pictures i can't wait to go to italy.

thanks to rosetta stone i was comfortable not only listening but also speaking italian because i had so much practice doing both.i'd give yourself at least 2-3 months before trying this in-country, but the pace in which you learn is really up to you.

we got this costume for my son to wear to disneyland.

my daughter likes to dress up like her favorite princess, so he wanted to dress up, too.

this costume is better quality than i had anticipated, based on some of the other reviews.

the boot covers pull on over the white jumpsuit pants, and the costume can be worn without them.

the arm panels, however, remain attached.

the suit has an opening in the back, under the hood, for the child to get into it, and the opening has two velcro dots to close it.

to use the bathroom, you have to take off the whole top of the costume, and then hold onto it so it doesn't touch a dirty bathroom floor (i definitely had to help my son with this in a public bathroom).

he absolutely loves the costume, and has worn it everywhere (except school) since he got it.

i also bought the inflatable jet pack/wings.

can't wait to see him all dressed up on the big day!

this is one of the cutest costumes i've ever seen!

the material is a little thin so we layered with a pair of white long johns and it worked great.

my grandson is 5 and i gave him this for christmas.

it has hat, suit and "boots" and he put it all on right away and wore it home.

my son wouldn't wear it because he can be a stick in the mud.

however, the costume is very cute, came within e boot covers, holster, bandana, hat, and one piece costume.

have they lost their minds??!!

over 100\$ for a costume!!

amazon, you are an idiot.

it better include a meeting with tom hanks for that price.

i bought this, but it is too large for me.

if i put anything in it, it is very visible under my shirts.

i ended up buying a runner's belt with a pocket and that works much easier to strap around my upper waist.

i also didn't like the idea of the string around my neck being visible.

thought of it getting caught or someone seeing it and pulling it.

i bought this to replace another one i had that was kinda heavy (in comparison).

the strap is long so you can wear it in a purse style or tighten it up and wear it under your shirt.

fear of pickpockets is over blown anyway i think having been to the " worst " cities of europe and asia.

just don't talk to people who take an extra interest in you because you are obviously american.

POSITIVE SENTENCES BY MODEL-3

i bought this for my 4 yr old daughter for dance class, she wore it today for the first time and the teacher thought it was adorable.

i bought this to go with a light blue long sleeve leotard and was happy the colors matched up great.

it is a very good way for exalt a dancer outfit: great colors, comfortable, looks great, easy to wear, durables and little girls love it.

my daughter liked this, and it with her costume, but she would have liked it to be a bit fuller.

full and well stitched.

this tutu is a beautiful purple color that looks just like the picture.

this was a gift for a two year old and a five year old.

the tutus seem to be well made, and can stand up to handling by little princesses.

perfect for my budding grand daughter ballerina!

beautiful vibrant color.

fits great and easy to clean!

i bought several more colors!

nice and puffy tutu skirt.

bought this for my niece as part of her fairy outfit.

our granddaughters are all very girlie, so when the youngest one received this for christmas, they all wanted it!

great color and fit for a 2 year old as well as her aunt who is 30!

the elastic waist will expand with her as she grows.

you will love this color too.

it is suitable for an adult though.

got another brown shining image jewelry case and it's fine!

really nice box, a bit cheaply made.

it is made of carboard with pleather.

every inch is useable space for jewelry & very compact, which is a nice feature.

while a class environment might work better for some, there's not always time for that either.

the software comes with a headset and microphone so that while you are learning, you also speak into the headset and respond to questions.

the software helps one learn how to pronounce the words and practice what you've learned to help retain it.

unlike a classroom environment, you can work at this at your own pace, which i appreciate.

i'm more comfortable learning from the program as well, than in front of a group of strangers .while going to france and living there for a while is probably the easiest and fastest way to learn french, rosetta stone is the next best thing, and a more realistic option for most people.

this is most assuredly the best program i've used to learn italian.

i have the older version too, and i like the new audio-visual matching; it's different from the older version and moves a lot faster with this version, you can move at your own pace a lot easier, and see your mistakes sooner, which is helpful not only does this have visual learning, and learning by audio, but also by speaking, and comparing your pronunciation to that of a native speaker, which i think is the most helpful part of the software.

the way the teaching of the language is set up, is i believe, the closest to learning it naturally with native speakers.

i love rosetta stone it is easy to use in a few quick lessons you are speaking italian.

i like how the lessons are short and easy to finish.i like the pictures i can't wait to go to italy.

i got rosetta stone italian level 1 a few months prior to a vacation in rome, mainly because the last time my wife and i visited italy, we went without knowing any italian and all... and that made for some frustration.i speak japanese and some spanish, so i am familiar with the challenges involved in learning a new language.

however, rosetta stone made it easy and fun to learn very basic italian.

thanks to rosetta stone i was comfortable not only listening but also speaking italian because i had so much practice doing both.i'd give yourself at least 2-3 months before trying this in-country, but the pace in which you learn is really up to you.

there are so many options that i didn't use... like the online lessons, the games, the community.

NEGATIVE SENTENCES BY MODEL-3

half size up should do well for me.

i remember when people said doc martens were indestructible and i destroyed those as well back in high school.

i have very wide big feet 5e.

the price ranges from around 60 to 90.

these were a little dressier than what i was looking for, no complaint otherwise.

i just wanted something i could wear with jeans or khakis, these are more khaki/slack/suit style in my opinion.

i got my boyfriend two pair of these in black, they are the only shoes he will wear.

fits great, feels great, and lasts long.

i really like these shoes.

they look great with jeans or khakis, and will last a long time if they are anything like my past rockports.

i recommend them to anyone looking for a good-looking, comfortable dress casual shoe.

they have held up well and give me the additional support i need due to a bad ankle.

i got this in a 9.5 and returned it as the size was a little large.

i got a half size smaller and it fits great.

then again that just about says it all for rockport's products

liked them so much that i bought several in other colors.

it fits perfect and not like today's pants that have no "butt" or very low ride on the hip (hate that look).

my husband only wears the wrangler carpenter fit jeans.

he loves them.

a wrangler size 18 is impossible to find in the stores, but that would compare to a 29 x 31.

an alternative would be the husky sizes which should be a 30" waist for a size 16h; too big and the pockets get bigger too.with these jeans, i have fit with a comfortable waist, heavy material that is washed out enough to be softer.

these are the same carpenter's jeans found in the discount stores.

well this fits me well, already made clothes are difficult to please, some no qualms about this, take or leave it

i have high arches and wear orthodics in my shoes for extra support.

i also have a little bit of foot pain from plantar fasciitis, which i control by wearing shoes with orthodics.the problem is, when i wake up in the morning (or am hanging around the house) i don't want to put on 'real shoes' - i just want to slip something on so that i don't have to walk around barefoot (which hurts after a bit).birkenstock only has two models with high arches - this one (boston) and the arizona.

but i think the boston looks better than the arizona when wearing pants/jeans.

as you wear them they will mold around your feet, making them even more comfortable.regarding sizing: the suede stretches.

i have been wearing birkenstocks on and off for 20 years.

POSITIVE SENTENCES BY MODEL-4

i wear them when i dance and i have a great range of flexibility.

they are also very comfortable and warm (lycra).

these are very cute and very comfortable.

the arch in the middle keeps your feet from getting achy.

they are versatile, comfortable, and supportive.

as a design they are beautiful but very uncomfortable, sorry

i love these sneakers.

these fit just fine, but they make my feet look big.

i have a couple of pairs of the old new balance 407s.

easy to setup.

timex - good warranty.

timex has a kids loss protection plan for 1 year and offers an extended 4 year warranty too.

i am an adult woman who chose this watch to wear.

the elastic band is far more comfortable than a metal expansion band and is the most comfortable type of band i've ever worn.

it fits him well with the elastic strap.

the lizard them on the strap and watch face is very cute (moving lizards!

wait till you see this!!

it is absolutely adorable wit the lizards chasing each other around the face of the watch.

the watch also is glow in the dark!

he said "my daddy has a watch, and now i have a watch.

this is a nice kids watch.

NEGATIVE SENTENCES BY MODEL-4

price was very good too since some of these go for over \$15.00 dollars.

what can i say... my daughters have it in orange, black, white and pink and i am thinking to buy for they the fuccia one.

i think it is a great buy for costumer and play too.

this tutu is a beautiful purple color that looks just like the picture.

it looks just adorable on our little fairy.

this was a gift for a two year old and a five year old.

the tutus seem to be well made, and can stand up to handling by little princesses.

i recommend these tutus.

i bought several more colors!

i would recommend this for girls under 10 yr. old.

it will be too short and small for older girls.

she loves it and wears it all the time.

well made for the price.

our granddaughters are all very girlie, so when the youngest one received this for christmas, they all the elastic waist will expand with her as she grows.

the minute i saw this my heart skipped a beat.

what a nice case to sort my collection.

i love all the compartments and the layout too.

you will love this color too.

if this is a gift do not hesitate.

it will please even the most fussy, as i am.

the price is fair if you check around as i did.

seems well made too.

not meant as a toy.

this is for serious jewelry lover's.

buy it.....

i already own this particular shining image jewelry box in brown, so this was my second buy.

it arrived with some of the leather scratched, even though it looked like i was the first one opening the box.

this particular color pink also looked pretty bad in person.

POSITIVE SENTENCES BY MODEL-5

e put these on & wore them the we received them.

i purchased these shoes 6/13 mainly based on their reputation for quality.

i bought these for my security-related job.

they are a great fit, are very comfortable, and seem to be quite durable.

outstanding g shoes mouthpiece and quality.

i recommend these shoes.outlastallothers perhaps not the most attractive of the lot but a very masculine shoe

however, it looked good and was comfortable.

i have owned 3 pairs of these because i wear them out.

they are durable shoes though.

i remember when people said doc martens were indestructible and i destroyed those as well back in high school.

these shoes fit great.

i have very wide big feet 5e.

these don't look super expensive, but they are nice looking casual shoes.

fits great, feels great, and lasts long.

these shoes fit true to size and are very comfortable.

i have several pairs of these shoes and they are great.

they have held up well and give me the additional support i need due to a bad ankle.

i got a half size smaller and it fits great.

liked them so much that i bought several in other colors.

the quality is great.

and if he is happy i am happy.

they are a great fit and a great price.

suck it up, don't tuck in your shirt and you are going to look like a twig in jeans made for little boys.

an alternative would be the husky sizes which should be a 30" waist for a size 16h; too big and the pockets get bigger too.with these jeans, i have fit with a comfortable waist, heavy material that is washed out enough to be softer.

these are the same carpenter's jeans found in the discount stores.

these will look nice for a couple of years with heavy wear.

wrangler is a top grand.

bought this as a gift and haven't heard any feedback yet but wrangler has the best quality and fit.

i have high arches and wear orthodics in my shoes for extra support.

i bought both.let's face it, they are not the most attractive shoes...

however, in the summertime, when it is hot - your feet will sweat in the boston!

so i bought the arizona for hot days/shorts and the boston for cool days/pants.again, they are not stylish or attractive, but they are comfortable.

and they will get more comfortable with age.

but the suede is definitely more comfortable.

(you will know it has stretched when your toes start to hit the front of the shoe.)

this is the epitome of comfort and coolness.

it is easy put it in in out, it is stylish and the workmanship is impeccable.

the shoes fit true to size.

great value.

NEGATIVE SENTENCES BY MODEL-5

do not stop making it wacoal.the lace is sheer and still provides the support i need for my figure.

i only buy original seiko replacement bands for this particular watch.

the bands are great, problem is my watch just went kaput

it is difficult to find off the rack watch bands for this seiko but that is okay.

the oem strap is a much better looking item.

i do like theses shoes and i have gotten compliments while wearing them.

the reason i gave them only four stars was because they are a slightly larger compared to regular low cut canvas converse mainly in volume not length.

the tongue does not stay in place.

it tends to slide to the side a little exposing a bit if your sock at some point during wear, but nothing terrible.

these are cool looking shoes.

but the leather seems cheap.

i'll have to see how they hold up over time.

good looking sneaker--it's a pretty classic chuck taylor all-star so there isn't much to say.

bought this and wore it maybe 3 times.

it is not as good as a girdle, you can still see every line of your body with this thing!

i am not that big and i still didn't look good in it.

wouldn't buy another one

i ordered a black shaper tank from self expressions in a med (from amazon) and it was less expensive than this one.

nope.

if this does not bother you, at least order a size down for extra smoothing.

defeats the purpose for a shaper.

i returned and hope for white to come along from other seller

i'm going to try something else.

not too thin.

can be worn as outerwear or underwear.

arrived quickly too.

always forget its there and always had a normal bottle opener with reach.

what surprised me most is the comfort and quality of the item.

this is actually my second pair.

i owned a pair of brown ones for the past few years.

the brown pair to this day aside from a little dirt and sand are like new.

i have been very impressed.

POSITIVE SENTENCES BY MODEL-6

when i opened the box, the shoes were black suede again.

i am a server in a fine dining restaurant.

i have been wearing these shoes for a couple of years and they are very comfortable.

these are the most comfortable shoes i've ever worn.

but wearing them is a different story- they are so comfortable.

i've owned a bunch of merrells, mostly of the "moc" variety.

however, past merrells have held up nicely; the outsoles always wear down smooth long before the uppers are ready to pack it in.

good traction, fits well and seems to have extra cushion or sole in the heal area.

the shoe is tight but is not uncomfortable even after long periods of standing and walking around.

bought them for my husband.

he loves them, very comfortable and easy to put on and my take off.

i wish merrell made more wide and extra-wide shoes.

i must like these shoes, this is my fourth pair, and they're all still in use.

my husband will not wear anything but merrell shoes anymore.

these shoes are the most comfortable and durable that i have found.

love merrell ever since i bought my first pair and they lasted me 5 years.

very durable and comfortable.

not overly fond of having to buy shoes online.

he loved them and they're still in really good shape, but they don't look as nice for dressing up anymore. i bought these for the arch support for standing hours on end in surgery with my flat feet, but the toe box is narrow so when my feet move forward even a little, my toes painfully hit the sides and top of the toe box.

but very attractive, great soles and great arch support.

i bought this based on the brand and good reviews.

my husband loved it.

very comfortable and good fit!

ten years ago, my husband bought a pair of these merrell shoes locally.

now (10 years later), after wearing these shoes on a daily basis, they have finally bit the dust.

we bought the same version from amazon to replace his old jungle slip-on's, and the new ones are just as comfortable.

no breaking in even.

they are super-high quality, fit great, have great tread, and look great as well.

merrell makes extremely comfortable slip ons with good durability.

great shoes and really well made.

nice shoes but run very large.

the length was right but the width was considerably wider than the brooks or new balance of the same size.

these shoes are not only stylish but extremely comfortable.

i highly recommend these shoes.

the medium width is a good b size.

i bought my husband a pair of white ones last summer, which--miracles never cease--he's still wearing. these shoes are good for walking and playing tennis.

kswiss classic luxury sneakers are one of the most comfortable sneakers there are, especially for being as simple, less bulky as they are on the inside, they are very cushiony, especially the sole.

these sneakers fit the bill perfectly and were our first choice since they fit every aspect we were looking for they are simple, but look great with anything.

he was very happy with them.

as an alternative to cleats.

these seem comfortable and very durable.

my son is obsessed with super heros so he wears this costume around the house almost daily.

this showed up without a cape and was a " super hero" suit.

these are great, and i love them.

easily my favorite sandals i've ever owned.

NEGATIVE SENTENCES BY MODEL-6

i suppose they are comfortable, but i recommend going to a retailer where you can try them on first. my husband goes through flip flops like underwear, so i convinced him to buy rainbows.

he loves them and they've lasted for more than a month on his schedule.

i really wanted to like these.

i'm wondering if there was a design change, because they were strangely narrow.

i have wide-ish feet, but these were much narrower than standard shoes.

they were strange looking, ultra lightweight, and uncomfortable, and didn't seem to have the arch support that rainbows are known for.

hopefully they'll darken up as i break them in.

my 20-something children all wear rainbows.

i've been buying them for years and finally tried a pair 2 years ago.

these are the first flat sandals i have ever liked.

they have conformed to my feet-- so comfy.

my go-to flip-flops.

when you first get them they will seem tight, but they need to be broken into.

give it a week and you will seed how they form to your feet.

try not to get them wet because they leather will wrinkle.

let's start with this - rainbow sandals are by far the best you'll ever buy.

they last forever and actually have arch support.i had purchased a pair of small men's sandals 9 years ago because they didn't have a large enough women's size at the store (i wear a 9).

they lasted all that time through daily use while in college in florida.

based on the reviews, i went a size down and purchased the large (7.5 - 8.5).

the strap was extremely tight but the foot bed was the right length, maybe slightly small.

unfortunately, my dog ate them after one use (the new leather smell is quite strong).

the strap was just as tight, but the foot bed was way too long.

so i returned them.

after trying on my husband's pair and realizing how comfortable the strap is on the men's, i plan to go back to the men's small.

these flip flops form to your feet after a while and last a long time.

they are usually lost or stolen before they wear out!

warning: you will have to stretch the straps out so be prepared.

but eventually, like all rainbow's, they will form to your foot and be oh-so-comfortable.

these flip flops do not fit true to size.

buying a larger size would make them too long but might not increase the size of the arch.

i gave these as a gift and she loved them.

they get better the more you wear them, plus they have a lifetime guarantee on materials.

POSITIVE SENTENCES BY MODEL-7

prompt delivery, and it is exactly as described.

the only reason i did not give it 5 stars is because i haven't washed it yet- so i don't know how it will hold up... other than that my little girl loves her tutus (we got one in light pink also), especially spinning and running in them:) she's on the little side, so my concern was that it would be too big, but the fit is perfect!

the elastic waist will expand with her as she grows.

the minute i saw this my heart skipped a beat.

what a nice case to sort my collection.

i love all the compartments and the layout too.

you will love this color too.

if this is a gift do not hesitate.

it will please even the most fussy, as i am.

the price is fair if you check around as i did.

seems well made too.

it is suitable for an adult though.

not meant as a toy.

this is for serious jewelry lover's.

buy it.....

i already own this particular shining image jewelry box in brown, so this was my second buy.

it arrived with some of the leather scratched, even though it looked like i was the first one opening the box.

this particular color pink also looked pretty bad in person.

the quality of this box seemed lesser than the brown one i own.i returned this pink case for a refund without a problem.

got another brown shining image jewelry case and it's fine!

really nice box, a bit cheaply made.

it is made of carboard with pleather.

although the organization for all your jewelry is great, i'm not so sure how it will stand up to my tween daughter's use.

every inch is useable space for jewelry & very compact, which is a nice feature.

since learning a language from software is not exactly the same as learning a language from going to live in the country itself, i suggest picking up the rosetta stone software 1 level at a time, like this french level 1

that way you know if you are able to learn from the software, before investing even more money into it. since total immersion into another country to learn is not always an option, rosetta stone it the next best thing.

while a class environment might work better for some, there's not always time for that either.

sometimes there's just enough time on the weekends, or in the evenings after work to get a few hours of studying in.

or maybe you just don't want to sit in a school like classroom, trying to learn from an instructor.

that's where rosetta stone comes in rosetta stone tries to be more than just a computer program.

NEGATIVE SENTENCES BY MODEL-7

i bought this for my 4 yr old daughter for dance class, she wore it today for the first time and the teacher thought it was adorable.

i bought this to go with a light blue long sleeve leotard and was happy the colors matched up great. price was very good too since some of these go for over \$15.00 dollars.

what can i say... my daughters have it in orange, black, white and pink and i am thinking to buy for they the fuccia one.

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i think it is a great buy for costumer and play too.

my daughter liked this, and it with her costume, but she would have liked it to be a bit fuller.

full and well stitched.

this tutu is a beautiful purple color that looks just like the picture.

it looks just adorable on our little fairy.

this was a gift for a two year old and a five year old.

the girls squealed upon opening the box, they grabbed the tutus, put them on, and wore them the rest of the day.

the tutus seem to be well made, and can stand up to handling by little princesses.

i recommend these tutus.

perfect for my budding grand daughter ballerina!

beautiful vibrant color.

i like how the lessons are short and easy to finish.i like the pictures i can't wait to go to italy.

i got rosetta stone italian level 1 a few months prior to a vacation in rome, mainly because the last time my wife and i visited italy, we went without knowing any italian and all... and that made for some frustration.i speak japanese and some spanish, so i am familiar with the challenges involved in learning a new language.

however, rosetta stone made it easy and fun to learn very basic italian.

this allowed me to keep the travel book with frequently used phrases in my pocket when asking questions at shops and for directions, mainly the main problem was once i asked in italian the person usually would speak to me in italian and i had to confess, in italian, that i only knew a very little italian.

so at least they could understand what i was able to say!

thanks to rosetta stone i was comfortable not only listening but also speaking italian because i had so much practice doing both.i'd give yourself at least 2-3 months before trying this in-country, but the pace in which you learn is really up to you.

there are so many options that i didn't use... like the online lessons, the games, the community.

i just didn't have the time for those and found the basic tutorials quite sufficient (and excellent) but it's great to have those options.

it's too short to be particularly useful.

if it had been about 3 inches longer it would have worked.

the problem was when you tilt your suitcases on their side to roll them, this is so short that the wheels of the attached case come off the ground.

the quality of construction looked good.