CIS 668 Assignment 2 Report

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Overview of Process

1. Extract only the reviews from baby.txt
2. Tokenize into sentences and change to lower case
3. Get the sentence polarity from library and create the word list
4. Get the stop-words and negation words
5. For subjectivity lexicon features, remove the stop-words and Naïve Bayes Classifier to train and find the accuracy
6. For negation word features, remove the stop-words that are not in the negation words and Naïve Bayes Classifier to train and find the accuracy
7. For each feature used, classify the tokenized reviews into positive and negative and save to the file.

Process in Details

1. In this part, I split the lines in the baby.txt and for each line starting with 'reviewText', I extracted the review into a new file 'new.txt'. There are ~160k reviews extracted.

```
In [3]: #open the file, split lines and obtain the line starting with reviewText.
        #save this line to a new text file called new.txt and open it

        f = open("baby.txt")
        text = f.read()
        text_split = text.splitlines()

        def reviewTexts(f):
            f2 = open("new.txt",'w+')
            for rt in f:
                if 'reviewText' in rt:
                    writeText = re.sub('reviewText:', '', rt)
                    f2.write(writeText+'\n')
            f2.close()

        reviewTexts(text_split)

        f3 = open("new.txt")
        text2 = f3.read()
        text2[0:1000]
```

```
Out[3]: "Perfect for new parents. We were able to keep track of baby's feeding, sleep and diaper change schedule for the first two and
        a half months of her life. Made life easier when the doctor would ask questions about habits because we had it all right ther
        e!\nThis book is such a life saver.  It has been so helpful to be able to go back to track trends, answer pediatrician questio
        ns, or communicate with each other when you are up at different times of the night with a newborn.  I think it is one of those
        things that everyone should be required to have before they leave the hospital.  We went through all the pages of the newborn
        version, then moved to the infant version, and will finish up the second infant book (third total) right as our baby turns 1.
        See other things that are must haves for baby at [...]\nHelps me know exactly how my babies day has gone with my mother in law
        watching him while I go to work.  It also has a section for her to write notes and let me know anything she may need. "
```

2. For each review in the new.txt, I tokenized them into individual sentences. There are around 900k sentences.

```python
#tokenize the sentences and change all to lower case

tokenize_sentence = tokenize.sent_tokenize(text2)
tokenize_sentence = [w.lower() for w in tokenize_sentence]
print(len(tokenize_sentence))
print(tokenize_sentence[:20])
```

```
893984
['perfect for new parents.', "we were able to keep track of baby's feeding, sleep and diaper change schedule for the first two
and a half months of her life.", 'made life easier when the doctor would ask questions about habits because we had it all righ
t there!', 'this book is such a life saver.', 'it has been so helpful to be able to go back to track trends, answer pediatrici
an questions, or communicate with each other when you are up at different times of the night with a newborn.', 'i think it is
one of those things that everyone should be required to have before they leave the hospital.', 'we went through all the pages
of the newborn version, then moved to the infant version, and will finish up the second infant book (third total) right as our
baby turns 1.', 'see other things that are must haves for baby at [...]\nhelps me know exactly how my babies day has gone with
my mother in law watching him while i go to work.', 'it also has a section for her to write notes and let me know anything she
may need.', "i couldn't be happier with this book.", 'i bought this a few times for my older son and have bought it again for
my newborn.', 'this is super easy to use and helps me keep track of his daily routine.', 'when he started going to the sitter
when i went back to work, it helped me know how his day went to better prepare me for how the evening would most likely go.',
'when he was sick, it help me keep track of how many diapers a day he was producing to make sure he was getting dehydrated.',
'the note sections to the side and bottom are useful too because his sitter writes in small notes about whether or not he like
d his lunch or if the playtime included going for a walk, etc.excellent for moms who are wanting to keep track of their kids d
aily routine even though they are at work.', 'excellent for dads to keep track as my husband can quickly forget what time he f
ed our son.', 'lol\ni wanted an alternative to printing out daily log sheets for the nanny to fill out, and this has worked ou
t great!', "i'm no longer searching my daughter's bag for a crumpled piece of paper each day.", "it's also nice to be able to
look back on previous days and weeks for eating and sleeping patterns.", "i would have preferred a plastic-type cover, but i
t's held up well so far."]
```

3. Like the lab, get the polarity sentences, randomize them and create the words list. The list contains around 190k words.

```python
sentences = sentence_polarity.sents()
documents = [(sent, cat) for cat in sentence_polarity.categories() for sent in sentence_polarity.sents(categories=cat)]
random.shuffle(documents)
documents[:20]
```

```
Out[5]: [(['makes',
   'even',
   'the',
   'claustrophobic',
   'on-board',
   'quarters',
   'seem',
   'fun',
   '.'],
  'pos'),
 (['feels', 'strangely', 'hollow', 'at', 'its', 'emotional', 'core', '.'],
  'neg'),
 (['another',
   'one',
   'of',
   'those',
   'estrogen',
   'overdose',
   'movies',
   'like',
```

```python
#get all the words, make sure they are words and change all to lower case

all_words_list = [word for (sent,cat) in documents for word in sent]
all_words = nltk.FreqDist(all_words_list)
```

```python
all_words_list = [w.lower() for w in all_words_list]
all_words_list = [w for w in all_words_list if w.isalpha()]
print(len(all_words_list))
print(all_words_list[:200])
```

```
187486
['makes', 'even', 'the', 'claustrophobic', 'quarters', 'seem', 'fun', 'feels', 'strangely', 'hollow', 'at', 'its', 'emotiona
l', 'core', 'another', 'one', 'of', 'those', 'estrogen', 'overdose', 'movies', 'like', 'divine', 'secrets', 'of', 'the', 'ya',
'ya', 'sisterhood', 'except', 'that', 'the', 'writing', 'acting', 'and', 'character', 'development', 'are', 'a', 'lot', 'bette
r', 'by', 'the', 'time', 'it', 'ends', 'in', 'a', 'rush', 'of', 'sequins', 'flashbulbs', 'blaring', 'brass', 'and', 'babes',
'it', 'has', 'said', 'plenty', 'about', 'how', 'show', 'business', 'has', 'infiltrated', 'every', 'corner', 'of', 'society',
'and', 'not', 'always', 'for', 'the', 'better', 'strident', 'and', 'inelegant', 'in', 'its', 'posturing', 'by', 'no', 'means',
'a', 'and', 'sure', 'to', 'ultimately', 'disappoint', 'the', 'action', 'fans', 'who', 'will', 'be', 'moved', 'to', 'the', 'edg
e', 'of', 'their', 'seats', 'by', 'the', 'dynamic', 'first', 'act', 'it', 'still', 'comes', 'off', 'as', 'a', 'touching', 'tra
nscendent', 'love', 'story', 'somewhat', 'clumsy', 'and', 'too', 'lethargically', 'paced', 'but', 'its', 'story', 'about',
'a', 'mysterious', 'creature', 'with', 'psychic', 'abilities', 'offers', 'a', 'solid', 'a', 'terrific', 'climax', 'and', 'som
e', 'nice', 'chills', 'along', 'the', 'way', 'everybody', 'loves', 'a', 'david', 'and', 'goliath', 'story', 'and', 'this', 'on
e', 'is', 'told', 'almost', 'entirely', 'from', 'point', 'of', 'view', 'an', 'entertaining', 'if', 'somewhat', 'standardized',
'action', 'movie', 'one', 'long', 'bore', 'the', 'result', 'is', 'solemn', 'and', 'horrifying', 'yet', 'strangely', 'detache
d', 'reminiscent', 'of', 'alfred', 'thrillers', 'most', 'of', 'the', 'scary', 'parts', 'in', 'occur', 'while', 'waiting', 'fo
r', 'things']
```

4. Get the stop-words and negation words. We want to make sure the stop-words are not included in further processing.

```python
In [8]: #get stopwords and negation words

stopwords = nltk.corpus.stopwords.words('english')
morestopwords = ['could','would','might','must','need','sha','wo','y',"'s","'d","'ll","'t","'m","'re","'ve"]
negationwords = ['no', 'not', 'never', 'none', 'nowhere', 'nothing', 'noone', 'rather', 'hardly', 'scarcely', 'rarely', 'seldom'
negationwords.extend(['ain', 'aren', 'couldn', 'didn', 'doesn', 'hadn', 'hasn', 'haven', 'isn', 'ma', 'mightn', 'mustn', 'needn'
stopwords = stopwords + morestopwords

#stopwords for NOT feature should not contain negation words
stopwords2 = [w for w in stopwords if w not in negationwords]
```

5. I used subjectivity lexicon for the first feature set. First, remove the stop words, sort by frequency, and use the most common 2000 words. Then use the Naïve Bayes Classifier to train and find the accuracy.

```python
In [9]: #for SL features, remove all the stopwords first
#calculate the classifier accuracy using Naive Bayes Classifier

all_words = [w for w in all_words_list if not w in stopwords]
all_words = nltk.FreqDist(all_words_list)
word_item = all_words.most_common(2000)
word_features = [word for (word,count) in word_item]
print(word_features[:50])
```

```
['the', 'a', 'and', 'of', 'to', 'is', 'in', 'that', 'it', 'as', 'but', 'with', 'film', 'this', 'for', 'its', 'an', 'movie', 'b
e', 'on', 'you', 'not', 'by', 'about', 'one', 'more', 'like', 'has', 'are', 'at', 'from', 'than', 'all', 'his', 'have', 'so',
'if', 'or', 'story', 'i', 'too', 'just', 'who', 'into', 'what', 'most', 'out', 'no', 'much', 'even']
```

```python
In [10]: SLpath = 'subjclueslen1-HLTEMNLP05.tff'
def readSubjectivity(path):
    flexicon = open(path, 'r')
    # initialize an empty dictionary
    sldict = { }
    for line in flexicon:
        fields = line.split()   # default is to split on whitespace
        # split each field on the '=' and keep the second part as the value
        strength = fields[0].split("=")[1]
        word = fields[2].split("=")[1]
        posTag = fields[3].split("=")[1]
        stemmed = fields[4].split("=")[1]
        polarity = fields[5].split("=")[1]
        if (stemmed == 'y'):
            isStemmed = True
        else:
            isStemmed = False
        sldict[word] = [strength, posTag, isStemmed, polarity]
    return sldict
SL = readSubjectivity(SLpath)
```

```python
In [11]: def SL_features(document, word_features, SL):
    document_words = set(document)
    features = {}
    for word in word_features:
        features['V_{}'.format(word)] = (word in document_words)
    # count variables for the 4 classes of subjectivity
    weakPos = 0
    strongPos = 0
    weakNeg = 0
    strongNeg = 0
    for word in document_words:
        if word in SL:
            strength, posTag, isStemmed, polarity = SL[word]
            if strength == 'weaksubj' and polarity == 'positive':
                weakPos += 1
            if strength == 'strongsubj' and polarity == 'positive':
                strongPos += 1
            if strength == 'weaksubj' and polarity == 'negative':
                weakNeg += 1
            if strength == 'strongsubj' and polarity == 'negative':
                strongNeg += 1
            features['positivecount'] = weakPos + (2 * strongPos)
            features['negativecount'] = weakNeg + (2 * strongNeg)
    return features

SL_featuresets = [(SL_features(d, word_features, SL), c) for (d, c) in documents]
train_set, test_set = SL_featuresets[1000:], SL_featuresets[:1000]
classifier = nltk.NaiveBayesClassifier.train(train_set)
nltk.classify.accuracy(classifier, test_set)
```

```
Out[11]: 0.764
```

6. I used negation word feature for the second feature. Different from SL feature, the stop-words removed should not contain negation words as they are needed for the process. Then use the Naïve Bayes Classifier to train and find the accuracy.

```python
#for NOT feature, we want to make sure the stopwords do not contain negation words

all_words2 = [w for w in all_words_list if not w in stopwords2]
all_words2 = nltk.FreqDist(all_words2)
word_items2 = all_words2.most_common(2000)
word_features2 = [word for (word,count) in word_items2]
def NOT_features(document, word_features, negationwords):
    features = {}
    for word in word_features:
        features['V_{}'.format(word)] = False
        features['V_NOT{}'.format(word)] = False
    # go through document words in order
    for i in range(0, len(document)):
        word = document[i]
        if ((i + 1) < len(document)) and ((word in negationwords) or (word.endswith("n't"))):
            i += 1
            features['V_NOT{}'.format(document[i])] = (document[i] in word_features)
        else:
            features['V_{}'.format(word)] = (word in word_features)
    return features

NOT_featuresets = [(NOT_features(d, word_features2, negationwords), c) for (d, c) in documents]
train_set, test_set = NOT_featuresets[1000:], NOT_featuresets[:1000]
classifier2 = nltk.NaiveBayesClassifier.train(train_set)
nltk.classify.accuracy(classifier2, test_set)
```

Out[12]: 0.78

7. For each feature used and for each review, classify them as positive or negative. I created four text files to save the results. Since there are too many sentences and words to be processed and it takes hours to complete. I force stopped the program and will only analyse the data in the output file so far.

```
In [13]: #loop through each sentence, decide whether it's positive or negative,
         #and save this sentence to the list and its corresponding file.
         #Since it takes too long due to large amount of data, I have manually stopped it and
         #only analyse the sentences categorized in the text files

         SLpositive = []
         SLnegative = []
         SLp = open('SLpositive.txt', 'w')
         SLn = open('SLnegative.txt', 'w')

         for sentence in tokenize_sentence:
             word = nltk.word_tokenize(sentence)
             feature = SL_features(word, word_features, SL)
             if classifier.classify(feature) == 'pos':
                 SLpositive.append(sentence)
                 SLp.write(sentence + '\n')
             elif classifier.classify(feature) == 'neg':
                 SLnegative.append(sentence)
                 SLn.write(sentence + '\n')

         SLp.close()
         SLn.close()
```

```
---------------------------------------------------------------------------
KeyboardInterrupt                         Traceback (most recent call last)
<ipython-input-13-f693da167ff2> in <module>
     15         SLpositive.append(sentence)
     16         SLp.write(sentence + '\n')
---> 17     elif classifier.classify(feature) == 'neg':
     18         SLnegative.append(sentence)
     19         SLn.write(sentence + '\n')

d:\users\owner\appdata\local\programs\python\python39\lib\site-packages\nltk\classify\naivebayes.py in classify
(self, featureset)
     87
     88     def classify(self, featureset):
---> 89         return self.prob_classify(featureset).max()
     90
     91     def prob_classify(self, featureset):

d:\users\owner\appdata\local\programs\python\python39\lib\site-packages\nltk\classify\naivebayes.py in prob_clas
sify(self, featureset)
    112             for (fname, fval) in featureset.items():
    113                 if (label, fname) in self._feature_probdist:
--> 114                     feature_probs = self._feature_probdist[label, fname]
    115                     logprob[label] += feature_probs.logprob(fval)
    116                 else:

KeyboardInterrupt:
```

```
In [14]: print(len(SLpositive))
         print(SLpositive[:10])

         print(len(SLnegative))
         print(SLnegative[:10])
```

```
27240
['perfect for new parents.', "we were able to keep track of baby's feeding, sleep and diaper change schedule for the first two
and a half months of her life.", 'this book is such a life saver.', 'it has been so helpful to be able to go back to track tre
nds, answer pediatrician questions, or communicate with each other when you are up at different times of the night with a newb
orn.', 'this is super easy to use and helps me keep track of his daily routine.', 'excellent for dads to keep track as my husb
and can quickly forget what time he fed our son.', "it's also nice to be able to look back on previous days and weeks for eati
ng and sleeping patterns.", 'my 3 month old son spend half of his days with my mother and half with a neighbor while i worke
d.', 'it was the best way to have some cohesion in his life while i was at work.', 'this book is perfect!']
56058
['made life easier when the doctor would ask questions about habits because we had it all right there!', 'i think it is one of
those things that everyone should be required to have before they leave the hospital.', 'we went through all the pages of the
newborn version, then moved to the infant version, and will finish up the second infant book (third total) right as our baby t
urns 1.', 'see other things that are must haves for baby at [...]\nhelps me know exactly how my babies day has gone with my mo
ther in law watching him while i go to work.', 'it also has a section for her to write notes and let me know anything she may
need.', "i couldn't be happier with this book.", 'i bought this a few times for my older son and have bought it again for my n
ewborn.', 'when he started going to the sitter when i went back to work, it helped me know how his day went to better prepare
me for how the evening would most likely go.', 'when he was sick, it help me keep track of how many diapers a day he was produ
cing to make sure he was getting dehydrated.', 'the note sections to the side and bottom are useful too because his sitter wri
tes in small notes about whether or not he liked his lunch or if the playtime included going for a walk, etc.excellent for mom
s who are wanting to keep track of their kids daily routine even though they are at work.']
```

```
In [15]: #loop through each sentence, decide whether it's positive or negative,
         #and save this sentence to the list and its corresponding file.
         #Since it takes too long due to large amount of data, I have manually stopped it and
         #only analyse the sentences categorized in the text files

         NOTpositive = []
         NOTnegative = []
         NOTp = open('NOTpositive.txt', 'w')
         NOTn = open('NOTnegative.txt', 'w')

         for sentence in tokenize_sentence:
             word = nltk.word_tokenize(sentence)
             feature = NOT_features(word, word_features2, negationwords)
             if classifier2.classify(feature) == 'pos':
                 NOTpositive.append(sentence)
                 NOTp.write(sentence + '\n')
             elif classifier2.classify(feature) == 'neg':
                 NOTnegative.append(sentence)
                 NOTn.write(sentence + '\n')

         NOTp.close()
         NOTn.close()
```

```
---------------------------------------------------------------------------
KeyboardInterrupt                         Traceback (most recent call last)
<ipython-input-15-9b5afb424ba7> in <module>
     12         word = nltk.word_tokenize(sentence)
     13         feature = NOT_features(word, word_features2, negationwords)
---> 14         if classifier2.classify(feature) == 'pos':
     15             NOTpositive.append(sentence)
     16             NOTp.write(sentence + '\n')

d:\users\owner\appdata\local\programs\python\python39\lib\site-packages\nltk\classify\naivebayes.py in classify
(self, featureset)
     87
     88     def classify(self, featureset):
---> 89         return self.prob_classify(featureset).max()
     90
     91     def prob_classify(self, featureset):

d:\users\owner\appdata\local\programs\python\python39\lib\site-packages\nltk\classify\naivebayes.py in prob_clas
sify(self, featureset)
     95         featureset = featureset.copy()
     96         for fname in list(featureset.keys()):
---> 97             for label in self._labels:
     98                 if (label, fname) in self._feature_probdist:
     99                     break

KeyboardInterrupt:
```

```
In [16]: print(len(NOTpositive))
         print(NOTpositive[:10])

         print(len(NOTnegative))
         print(NOTnegative[:10])
```

```
8655
['perfect for new parents.', 'this book is such a life saver.', 'see other things that are must haves for baby at [...]\nhelps
me know exactly how my babies day has gone with my mother in law watching him while i go to work.', 'i bought this a few times
for my older son and have bought it again for my newborn.', 'excellent for dads to keep track as my husband can quickly forget
what time he fed our son.', "it's also nice to be able to look back on previous days and weeks for eating and sleeping pattern
s.", 'a lot times i need struggle trying to read what the caretaker wrote in because the spaces go together.', 'my 3 month old
son spend half of his days with my mother and half with a neighbor while i worked.', 'this book is perfect!', 'the baby tracke
r brand books are the absolute best of the trackers that are available.']
22422
["we were able to keep track of baby's feeding, sleep and diaper change schedule for the first two and a half months of her li
fe.", 'made life easier when the doctor would ask questions about habits because we had it all right there!', 'it has been so
helpful to be able to go back to track trends, answer pediatrician questions, or communicate with each other when you are up a
t different times of the night with a newborn.', 'i think it is one of those things that everyone should be required to have b
efore they leave the hospital.', 'we went through all the pages of the newborn version, then moved to the infant version, and
will finish up the second infant book (third total) right as our baby turns 1.', 'it also has a section for her to write notes
and let me know anything she may need.', "i couldn't be happier with this book.", 'this is super easy to use and helps me keep
track of his daily routine.', 'when he started going to the sitter when i went back to work, it helped me know how his day wen
t to better prepare me for how the evening would most likely go.', 'when he was sick, it help me keep track of how many diaper
s a day he was producing to make sure he was getting dehydrated.']
```

Results and Analysis

The SL feature has produced an accuracy of 0.764 and the negation word feature has an accuracy of 0.78. In the classification of positivity, the SL feature classified ~27k positives and ~56k negatives whereas negation word feature classified ~8.6k positives and ~22.4k negatives. For this analysis, I will just use the NOTnegatives.txt and NOTpositives.txt produced from the negation feature.

Below are the reviews classified as negative. We can see some sentences are indeed negative. For example, "problem was i could not find the adhesive to attach the thing to the table." This is most likely due to the word 'problem' and 'could not.' However, we can also see some positive sentences, such as "good product." Many of the sentences are classified as negative because of the negation words. We can find this easily in the reviews.

```
i gave it only four stars because the item arrived with some of it missing,that was however resolved.the product does what it is supposed to.
my crazy bruiser has made this probably the best baby purchase i made.
doesn't come unstuck like the crappy clear one i tried before.sticks to my wood coffee table and glass trim on tv stand.haven't tried to take it off yet so i don't know what that's going to be like but it was def worth it.
well i procrastinated and didn't put it up till this week.
my son is 10 months and is full blown running so it was time.
problem was i could not find the adhesive to attach the thing to the table.
so i improvised.
we then attached the corner pieces to the cut out parts using gorilla glue and then clear packing tape to re-enforece the hold.
finally we put it on the table, it has just enough give to put on and off but not enough that lo will pull it off easily and huge plus for us...no damage to our pottery barn table!
once i get so me photos i will attach but for the moment it is serving its purpose and we are very happy!
another plus we had about 6 inches left over that we used to cover our desk pull out keyboard thing.
can't beat that.
we love prince lionheart products.
this are awesome around our coffee table, end tables and entertainment center.
however the glue on this device could be a little stronger because soon after applying it to what ever you need it on, our son figured out how to pull it off and now it won't stay on!
i used this product on our fireplace to cover up the sharp edges but it doesn't stick very well to natural stone.
so occasionally i have to re-stick it once it comes loose.
i just put this up yesterday and was glad i did.
just right after i put it on she was doing that!
thank god this was on so she was fine!not sure how it would work on a walking/running baby into corners/edges.
but this seem to be doing well.
it's nice and thick.the tape that came with it isn't that sticky though.
it makes it easy to stick and restick back on so you get it on good.
but at the same time, i fear my daughter would figure out that she can pull it off.i'll see how that goes but so far i'm content with this.cutting the roll itself seems a bit annoying.
because i can't seem to get a straight edge using a scissor.
very cushioned.
they stick fairly well, but a toddler could peel them off if motivated.
i'm not wild about the brown color, but this is a case where the safety and thick soft material outweighs my aesthetic sense.
we have even used this around a rock fireplace base and it stayed stuck.
i've reordered and used this product for two houses and i will reorder again if i ever need more.
i think my daughter would pull off any table corner i put on, but this one at least seems the most sturdy and is easy to put back on when she does pull it off.
just installed in on my coffee table and it is not an eyesore!
will be buying more to apply to the underside corners and the leg corners - for some reason my son keeps hitting his head on every corner possible!
this a great product.
also it would be good if you could buy plastic cover for the top of the crib railling.
we started with just corners and found we missed a lot of other dangerous areas, including a knee-high tall toy chest with thick drawers.
this set was perfect to secure the entire thing.
i prefer the gray to the chocolate for lighter woods.
good product.
people seem to have unrealistic expectations of products sometimes.
they want it to stick like crazy yet not hurt their furniture.
there is a balance there that you have to have.
you can't have everything.
i bought this to try to cover some of the worst corners.
you can't cover everything, but we have to make an effort since our 10 month old is scooting around now.
he hasn't paid any attention to the padding nor tried to pull it off yet.
and we haven't had to remove any to see if it hurts our furniture.
i care more about the safety than the aesthetics of my furniture.
the padding should be sufficient to stop minor bumps and bruises.
i'm satisfied for the moment...i'll update if that changes.i deducted a star because i ordered beige and got chocolate...not worth the hassle to return it.
neither was a huge deal to us, but i could see this mattering to people wanting to match their furniture more.
it serves it purpose well.
overall a  good product.
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On the other hand, the positive reviews are mostly actually positive reviews. We hardly find any contradictions. One noticeable thing we can find is that many neutral comments are classified into negative reviews. This is a main reason why the difference between the number of positives and negatives are huge. Another reason may be that such reviews are for baby products, but the data set we used was for movie reviews. Moreover, it also depend on the training features we used. For example, the highest accuracy we got was

78%, so if we use a better set, we may be able to get a better result.

around the outside.
we use it daily.
this sterilizer is absolutely wonderful, especially if you take your baby on the road, i.e.
plus, unlike a bottle warmer appliance, there are no moving part or electrical components to wear out or break, so we expect we'll be using ours for years/babies to come.
this is such a great item and i can't say enough good things about it!
this is great for anyone with the avent bottles.
after a couple weeks of use she decided to get this sterilizer.
it is fast and simple to use and holds a lot of bottles as well as my breast pump accessories.
it fits all of her bottles and pacifiers in one process and it fits perfectly in my small kitchen when i am not using it.
you will get good use out of it.
love the convience and ease of use.
very convient and can do 6 bottles at a time or even baby spoons, forks & even bowls or cups your choice.
i am not a clean freak who sterilizes everything my son touches.
after a brief, and horrible stint with stovetop sterilizing, i began to use the dishwasher to clean my son&#65533;s bottles.
there is no way to confuse the stacking order: the base, the bottle rack, and the lid.
keep the manual handy, as the loading order for large bottles, differs from the 4-ounce size.3.)
in 4 or 5-minutes it&#65533;s done.
it&#65533;s hot!
plus, any steam that&#65533;s emitted can burn.
once the cooling time has passed, 2-minutes or so, remove the lid carefully.
if it&#65533;s top-drawer dishwasher safe, than it&#65533;s probably sterilizer safe.
some might complain about the price of the sterilizer, but considering two, 9-ounce bottles come with the unit, it may seem more reasonable knowing they retail for $4.00 a piece.
the sterilizer works great, simply, and fast!
the express steam sterilizer is really the easiest and most efficient way to go if you want to be assured that your baby's bottles are truly clean.
when i first started using bottles i would use the sterilizer between dishwasher uses.
it is quick, easy and effective.
it is very quick and completely uncomplicated.
the avent bottles fit perfectly.
i now use the dr. brown's bottles and just have to lay them on their sides.
i sterilized bottles and breast pumps the old fashioned way with my first child and in the begining w/ my 2nd child.
this is a very simple, fast, effective and economical way to get just about everything for baby sterilized.
this is the most wonderful item i have gotten.
since i express milk and freeze it, it is reassuring knowing that the storage containers are sterile.
i also love it because you never know if you are washing the bottles and pacifiers and such with warm enough water (i am a first time mom).
it is so easy to use and comes with extra bottles.
it can sterilize 5 small bottles & nipples 5 minutes at a time!!!
i am happy to say that neither of us has suffered from thrush or any infection.it's also wonderful for pacifiers and bottles.
i use the avent bottles which fit perfectly... but also have mendela bottles that fit wonderfully, too.i would highly recommend.
the wattage is simple to use, just look inside your microwave on the bottom with all the info and it tells you what wattage it is and them refer to the manual to see the time.
highly reccomended
we initially bought this sterilizer for use with our first child born in 2005.
i loved it then, but i'm even more impressed with some updated details in the version we just bought for our second child.
now, easy-to-use latches have made doing both completely hassle-free.
that the sterilizer comes with bottles is pure bonus.
i bought this sterilizer when i was using avent bottles and it worked great.
our microwave is 1200 watts, so using this sterilizer saved me a ton of time...bottles were done in 3 minutes!
it saves my skin from hand washing in scorching hot water (but i still give things a quick rince in warm soapy water before tossing them in the sterilizer).
it is a lifesaver when pumping and bottle feeding.the only drawback is the space that it takes up - it is about 12 inches in diameter and 6 inhes tall.
this is a great item if you don't run the dishwasher alot.
we use this for home and travel.
good item.
finally, and perhaps most important of all: this is an essential piece of baby gear.
this is a great thing to have and we still use it a few times a week and my son is 10 wks old.