**NB.py**

({'saying': True, 'cheap': True, 'looks': True, 'its': True, 'fit': True, 'lining': True, 'Fred': True, 'to': True, 'only': True, 'excited': True, 'do': True, 'sued': True, 'D': True, 'very': True, 'material': True, 'not': True, 'now': True, 'like': True, 'leather': True, 'small': True, 'hard': True, 'are': True, 'little': True, 'really': True, 'for': True, 'pictures': True, 'Flare': True, 'however': True, 'base': True, 'put': True, 'by': True, 'card': True, 'extreme': True, 'about': True, 'of': True, 'credit': True, 'shipped': True, 'place': True, 'nylon': True, 'feel': True, 'Also': True, 'snug': True, 'slots': True, 'quality': True, "doesn't": True, 'use': True, "it's": True, 'there': True, 'fast': True, 'start': True, 'much': True, 'too': True, 'recommend': True, 'was': True, 'sort': True, 'that': True, 'but': True, 'part': True, 'with': True, 'duped': True, 'And': True, 'made': True, 'this': True, 'inside': True, 'smooth': True, 'friendly': True, 'wallet': True, 'my': True, 'and': True, 'have': True, 'is': True, 'it': True, 'cant': True, 'itself': True, 'want': True, 'in': True, 'You': True, 'seem': True, 'no': True, 'note': True, 'also': True, 'book': True, 'higher': True, 'product': True, 'I': True, 'problems': True, 'user': True, 'included': True, 'The': True, 'a': True, 'transaction': True, 'the': True, "that's": True}, 'neg')

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({'cute': True, 'all': True, 'because': True, 'feel': True, "It's": True, 'is': True, 'it': True, 'It': True, 'say': True, 'hassle': True, 'are': True, 'have': True, 'in': True, "I'm": True, 'containing': True, 'opened': True, 'etc': True, "it's": True, 'when': True, 'to': True, 'does': True, 'indeed': True, 'ripped': True, 'was': True, 'worth': True, 'product': True, 'that': True, 'I': True, 'listing': True, 'what': True, 'but': True, 'back': True, 'photos': True, 'job': True, 'not': True, 'The': True, 'disappointed': True, 'First': True, "wasn't": True, 'keeping': True, 'off': True, 'package': True, 'leather': True, 'of': True, 'iPod': True, '60ish': True, 'up': True, 'shipping': True, 'wallet': True, 'misleading': True, 'expecting': True, 'suede': True, 'lining': True, 'the': True, 'nylon': True, 'my': True, "isn't": True}, 'neg')

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train on 840 instances, test on 281 instances

accuracy: 0.800711743772

Most Informative Features

returned = True neg : pos = 13.7 : 1.0

disappointed = True neg : pos = 12.3 : 1.0

return = True neg : pos = 11.6 : 1.0

pleased = True pos : neg = 11.6 : 1.0

plastic = True neg : pos = 10.4 : 1.0

perfect = True pos : neg = 9.2 : 1.0

credit = True neg : pos = 8.4 : 1.0

send = True neg : pos = 8.2 : 1.0

weeks = True neg : pos = 8.2 : 1.0

easy = True pos : neg = 7.8 : 1.0

**SVM.py**

({'saying': True, 'cheap': True, 'looks': True, 'its': True, 'fit': True, 'lining': True, 'Fred': True, 'to': True, 'only': True, 'excited': True, 'do': True, 'sued': True, 'D': True, 'very': True, 'material': True, 'not': True, 'now': True, 'like': True, 'leather': True, 'small': True, 'hard': True, 'are': True, 'little': True, 'really': True, 'for': True, 'pictures': True, 'Flare': True, 'however': True, 'base': True, 'put': True, 'by': True, 'card': True, 'extreme': True, 'about': True, 'of': True, 'credit': True, 'shipped': True, 'place': True, 'nylon': True, 'feel': True, 'Also': True, 'snug': True, 'slots': True, 'quality': True, "doesn't": True, 'use': True, "it's": True, 'there': True, 'fast': True, 'start': True, 'much': True, 'too': True, 'recommend': True, 'was': True, 'sort': True, 'that': True, 'but': True, 'part': True, 'with': True, 'duped': True, 'And': True, 'made': True, 'this': True, 'inside': True, 'smooth': True, 'friendly': True, 'wallet': True, 'my': True, 'and': True, 'have': True, 'is': True, 'it': True, 'cant': True, 'itself': True, 'want': True, 'in': True, 'You': True, 'seem': True, 'no': True, 'note': True, 'also': True, 'book': True, 'higher': True, 'product': True, 'I': True, 'problems': True, 'user': True, 'included': True, 'The': True, 'a': True, 'transaction': True, 'the': True, "that's": True}, 'neg')

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({'cute': True, 'all': True, 'because': True, 'feel': True, "It's": True, 'is': True, 'it': True, 'It': True, 'say': True, 'hassle': True, 'are': True, 'have': True, 'in': True, "I'm": True, 'containing': True, 'opened': True, 'etc': True, "it's": True, 'when': True, 'to': True, 'does': True, 'indeed': True, 'ripped': True, 'was': True, 'worth': True, 'product': True, 'that': True, 'I': True, 'listing': True, 'what': True, 'but': True, 'back': True, 'photos': True, 'job': True, 'not': True, 'The': True, 'disappointed': True, 'First': True, "wasn't": True, 'keeping': True, 'off': True, 'package': True, 'leather': True, 'of': True, 'iPod': True, '60ish': True, 'up': True, 'shipping': True, 'wallet': True, 'misleading': True, 'expecting': True, 'suede': True, 'lining': True, 'the': True, 'nylon': True, 'my': True, "isn't": True}, 'neg')

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train on 840 instances, test on 281 instances

['neg', 'pos']

set(['neg', 'pos'])

281

281

0.754448398577

precision recall f1-score support

pos 0.75 0.76 0.75 140

neg 0.76 0.75 0.75 141

avg / total 0.75 0.75 0.75 281

**Test3.py (1st run)**

Positives: 192.0 276.0

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Negatives: 161.0 275.0

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Accuracy: 0.640653357532

**Test3.py(2nd run)-with intensifiers and negators**

Positives: 196.0 276.0

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Negatives:168.0 275.0

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Accuracy:0.660617059891

**Test3.py(2nd run)-with intensifiers and negators + negative\*1.1**

Positive:185.0 276.0

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Negative:176.0 275.0

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Accuracy:0.655172413793

**Test3.py(3rd run)-with intensifiers and negators + converting ‘s’ to ‘a’ + negators not in sentiwordnet lexicon -> negate the signs**

Positives: 206.0 276.0

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Negative: 174.0 275.0

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Accuracy: 0.689655172414

**Test3.py(4th run)-with intensifiers and negators + converting ‘s’ to ‘a’ + negators not in sentiwordnet lexicon -> negate the signs + changing simple\_lesk to cosine\_lesk**

Positive: 228.0 276.0 205

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Negative:165.0 275.0 172

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Accuracy: 0.713248638838 0.684210526316

**Test3.py(5th run)-with intensifiers and negators + converting ‘s’ to ‘a’ + negators not in sentiwordnet lexicon -> negate the signs + changing simple\_lesk to cosine\_lesk + \*1.1**

Positive: 219.0 276.0

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Negative: 171.0 275.0

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Accuracy: 0.70780399274

**Test3.py(6th run)-with intensifiers and negators + converting ‘s’ to ‘a’ + negators not in sentiwordnet lexicon -> negate the signs + changing simple\_lesk to cosine\_lesk + \*1.1 +obj0.8**

Positive: 212.0 276.0

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Negative: 170.0 275.0

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Accuracy: 0.693284936479

**Test3.py(7th run)-with intensifiers and negators + converting ‘s’ to ‘a’ + negators not in sentiwordnet lexicon -> negate the signs + changing simple\_lesk to cosine\_lesk + obj0.8**

Positive: 223.0 276.0

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Negative: 166.0 275.0

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Accuracy: 0.705989110708

**Test3.py(8th run)-with intensifiers and negators + converting ‘s’ to ‘a’ + negators not in sentiwordnet lexicon -> negate the signs + changing simple\_lesk to cosine\_lesk + stanfordPOStagger**

Positives: 218.0 275.0

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Negatives: 177.0 275.0

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Accuracy: 0.718181818182

**Test3.py(9th run)-with intensifiers and negators + converting ‘s’ to ‘a’ + negators not in sentiwordnet lexicon -> negate the signs + changing simple\_lesk to cosine\_lesk + stanfordPOStagger + without punctuators**

Positives: 213.0 275.0

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Negatives: 177.0 275.0

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Accuracy: 0.709090909091