Latent_semarical_analysis

January 19, 2019

In [3]:
```
#LSA-Latent semarical analysis
from sklearn.datasets import fetch_20newsgroups
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.decomposition import TruncatedSVD
import numpy as np
categories = ['sci.med', 'sci.space']
twenty_sci_news = fetch_20newsgroups(categories=categories)
tf_vect = TfidfVectorizer()
word_freq = tf_vect.fit_transform(twenty_sci_news.data)
tsvd_2c = TruncatedSVD(n_components=50)
tsvd_2c.fit(word_freq)
np.array(tf_vect.get_feature_names())

[tsvd_2c.components_[20].argsort()[-10:][::-1]] # it should display words (version iss
```

Out[3]:
```
[array([25610, 13553, 13699, 21903, 10113,  6815, 11053,  6668, 24389,
        16985], dtype=int32)]
```

In [ ]: