Confusion matrix		<b>Actual class</b>		
		Food	No food	
Predi	Food	1510	1187	
cted class	No food	565	6142	

```
tag doesn't have food, but picture have food : 565
tag have food, but picture haven't food : 1187
food picutre number: 1510
no_food picture number: 6142
food accuracy: 0.6258278145695364
no_food accuracy : 0.8067404754151742
total accuracy: 0.7710402509147936
```

*****	****	********	aining set	t report *	*****	*****
		precision	recall	f1-score	support	
	0	0.89	0.98	0.93	1079	
	1	0.97	0.85	0.91	921	
accur	acv			0.92	2000	
macro	-	0.93	0.92	0.92	2000	
weighted	avg	0.93	0.92	0.92	2000	
+++++++	++++	++++++++	sting set	roport +++	*****	+++++
^^^^	^^^		_			^ ^ ^ ^ ^ ^ ^ /
		precision	recall	fl-score	support	
	0	0.72	0.77	0.75	514	
	1	0.74	0.69	0.71	486	
200115	261/			0.73	1000	
accur						
macro	avg	0.73	0.73	0.73	1000	
weighted	avg	0.73	0.73	0.73	1000	

## SVM & RBF Kernel

Select 311 tags, the number of occurrences of these tags accounted for 70% of the total.

Total tags: 3641

(recall \* support ) is the number of correct classification

*****	****	**********	aining set	report **	*****	****
		precision				
	_	2 24	1 00	0.07	1070	
	0	0.94	1.00	0.97	1079	
	1	1.00	0.93	0.96	921	
accur	acy			0.97	2000	
macro	-	0.97	0.96	0.97	2000	
weighted	avg	0.97	0.97	0.97	2000	
*****	****	*********te	sting set	report ***	*****	****
		precision				
	_	0.70	0.75	0 74	514	
	0	0.73	0.75	0.74	514	
	1	0.73	0.70	0.71	486	
accur	racv.			0.73	1000	
accur			120 (0.00)			
macro	avg	0.73	0.73	0.73	1000	
weighted	avg	0.73	0.73	0.73	1000	

## SVM & Polynomial kernel

Select 311 tags, the number of occurrences of these tags accounted for 70% of the total.

Total tags: 3641

(recall \* support ) is the number of correct classification

******	*******	raining se	t report *	******	*****
	precision	recall	f1-score	support	
0	0.75	0.82	0.78	1079	
1	0.76	0.69	0.72	921	
accuracy			0.76	2000	
macro avg	0.76	0.75	0.75	2000	
weighted avg	0.76	0.76	0.75	2000	
0.00					
******	******	esting set	report **	******	*****
	precision	recall	f1-score	support	
0	0.77	0.58	0.66	514	
1	0.65	0.82	0.72	486	
accuracy			0.70	1000	
macro avg	0.71	0.70	0.69	1000	
weighted avg	0.71	0.70	0.69	1000	

## SVM & sigmoid Kernel

			251/2		
	precision	recall	f1-score	support	
0	0.97	1.00	0.98	4813	
1	0.99	0.86	0.92	1187	
accuracy			0.97	6000	
macro avg	0.98	0.93	0.95	6000	
weighted avg	0.97	0.97	0.97	6000	
******	*******	esting set	report **	*****	***
	precision	recall	f1-score	support	
0	0.94	0.98	0.96	1329	
1	0.91	0.76	0.83	323	
accuracy			0.94	1652	
macro avg	0.93	0.87	0.89	1652	
weighted avg	0.94	0.94	0.94	1652	

SVM & Polynomial kernel

## After shuffle data