* 1. (see code)

|  |  |  |
| --- | --- | --- |
|  | w = 3 | w = 6 |
| #(chicken, the) | 52 | 103 |
| #(chicken, wings) | 6 | 7 |
| #(chicago, chicago) | 38 | 122 |
| #(coffee, the) | 95 | 201 |
| #(coffee, cup) | 10 | 14 |
| #(coffee, coffee) | 4 | 36 |

1.3

simlex999: correlation=0.05876135331349779

MEN: correlation=0.2251396048448754

2.

IDF without logarithm transformations or other scaling techniques:

simlex999: correlation=0.12778528309126566

MEN: correlation=0.4388165624442915