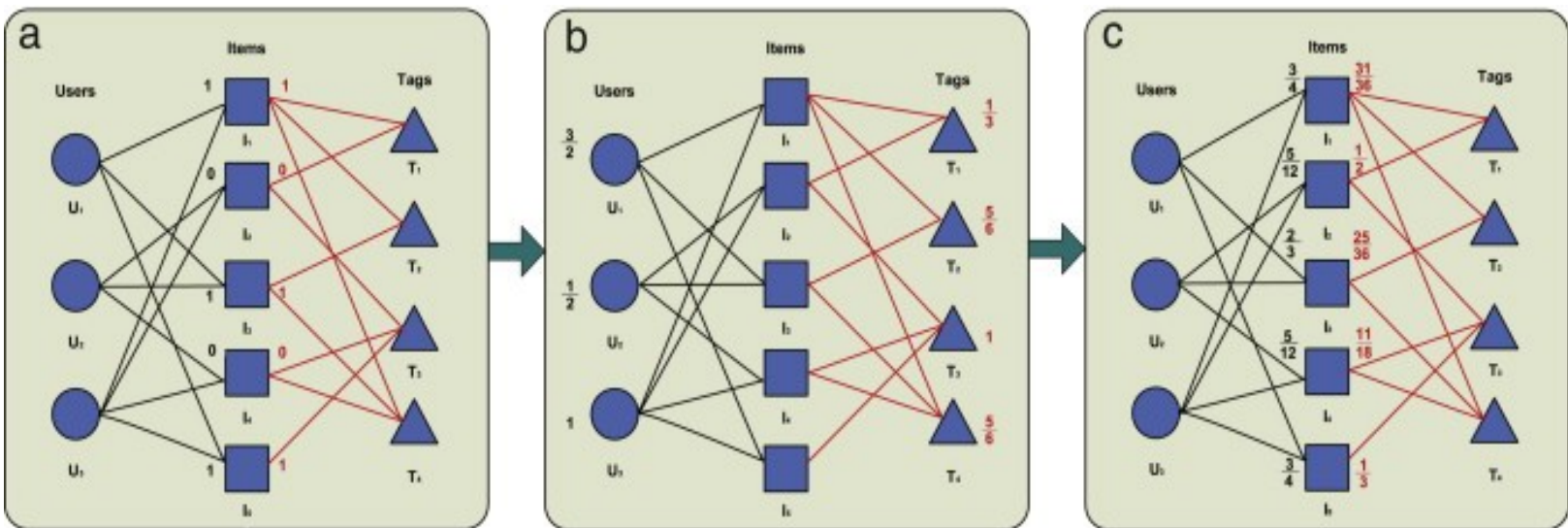


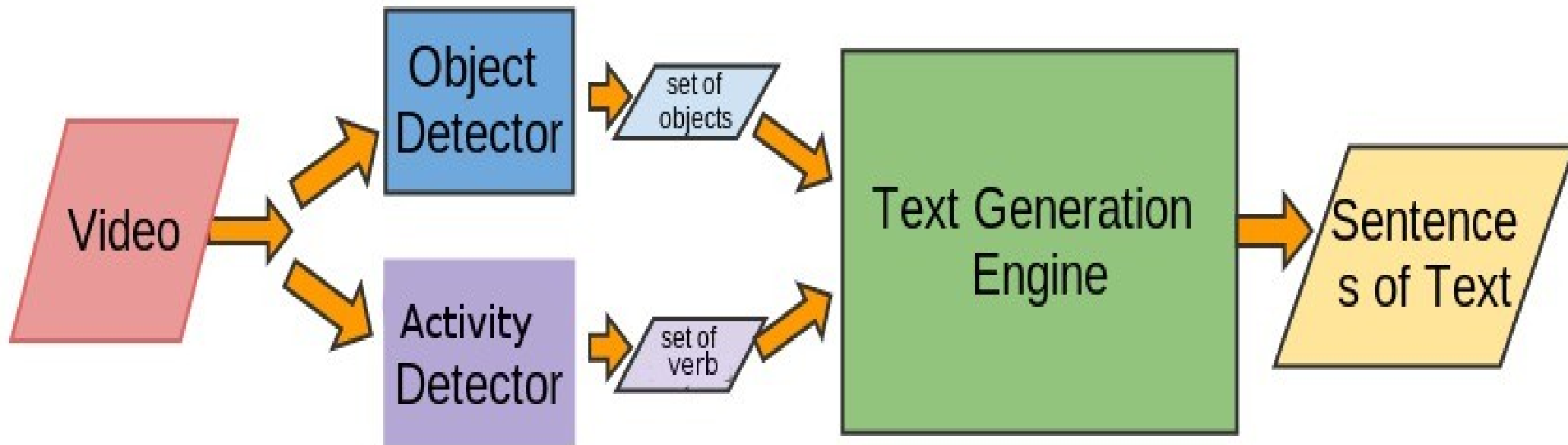
Tripartite graph structure learning



Contents

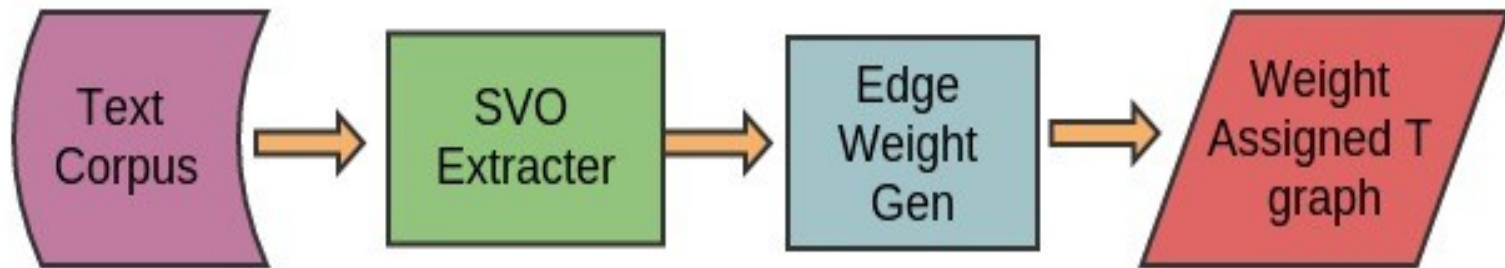
- Overview
- Sentence Generation Overview
- Method 1
 - Case 1
 - Case 2
- Method 2
- Results

Video to Text Overview

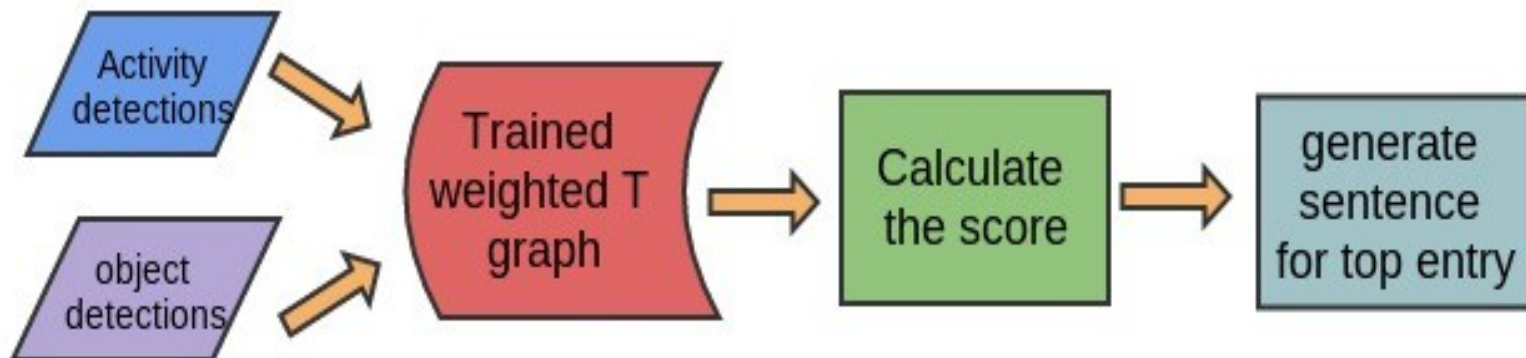


Text Sentence Generation

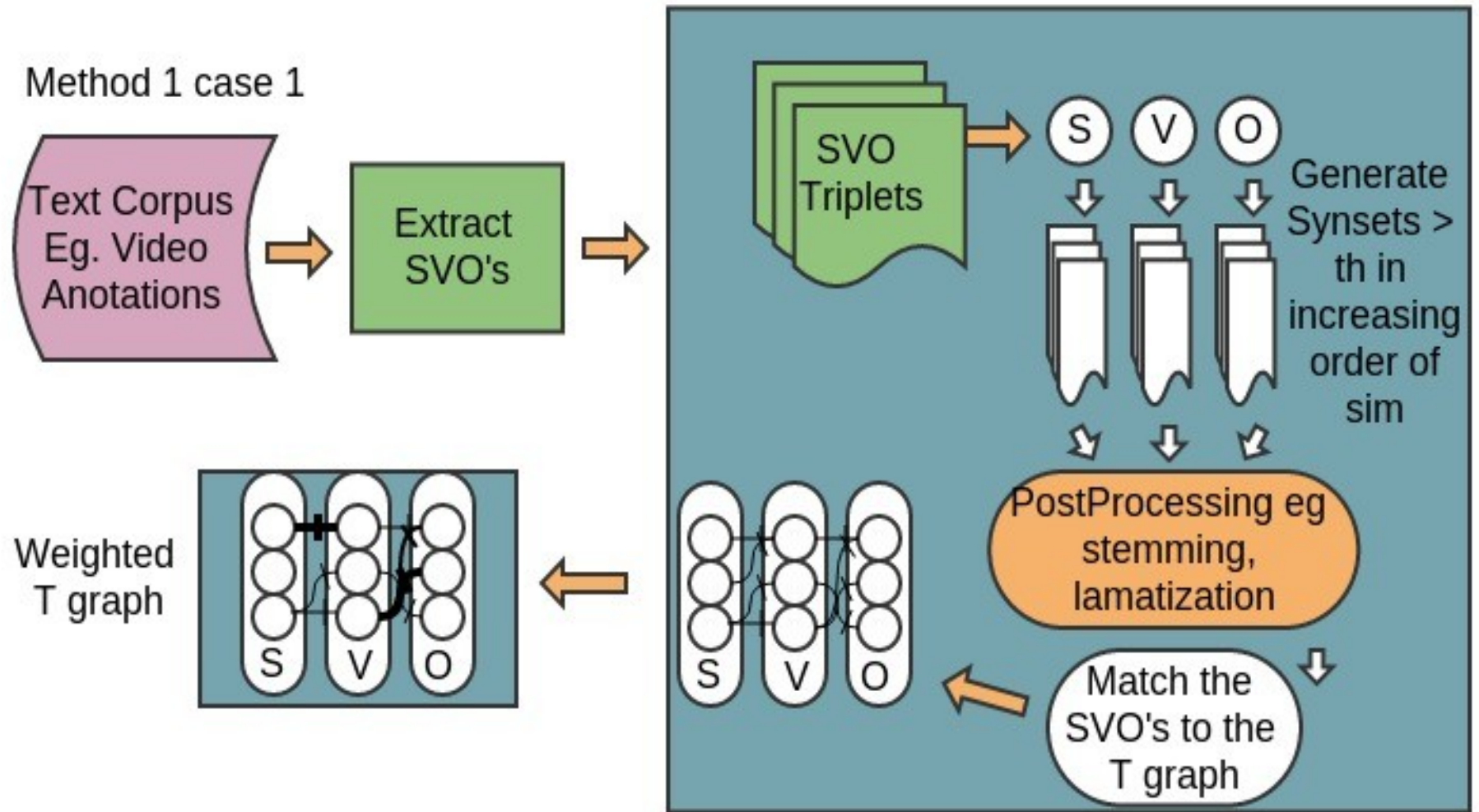
Training



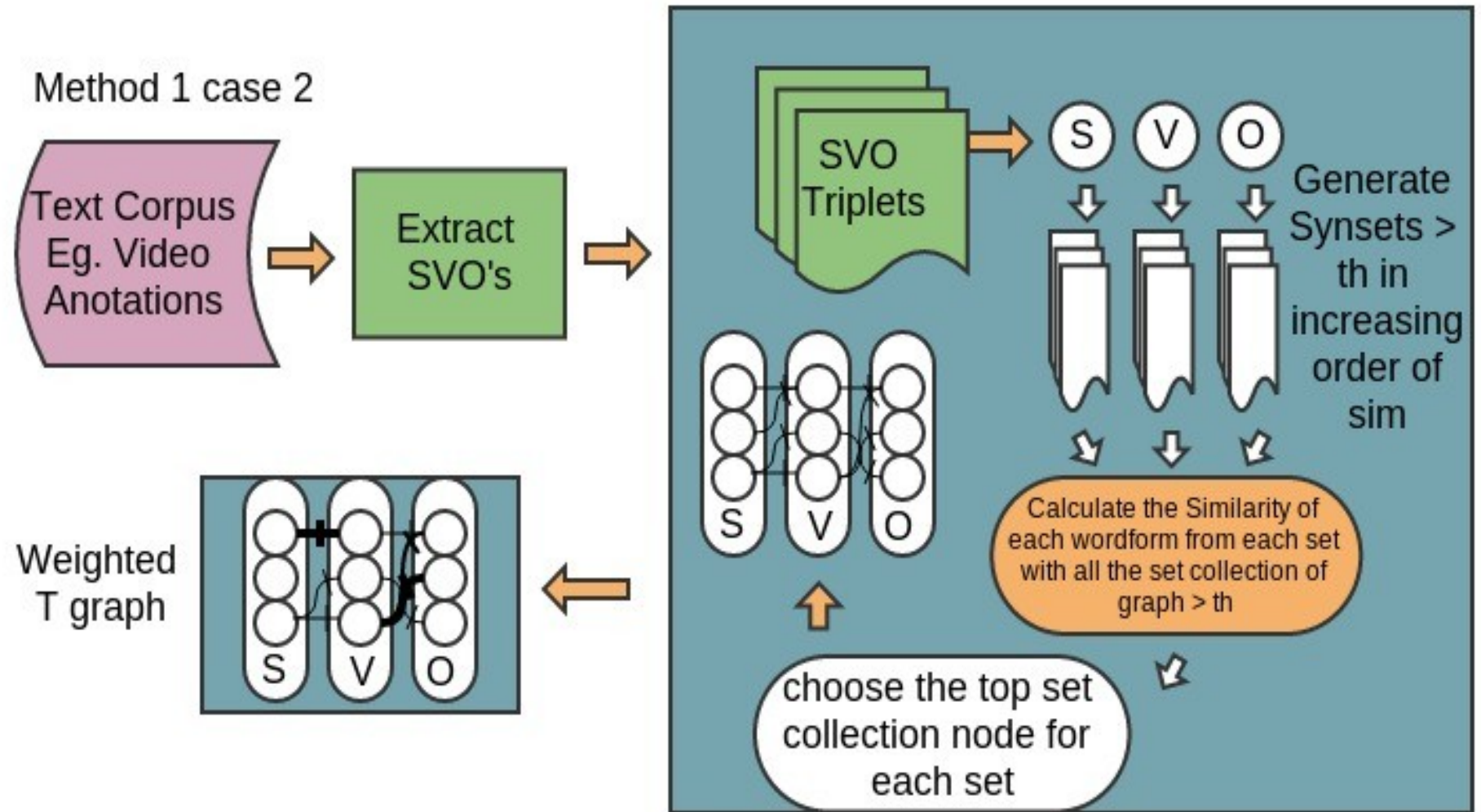
Testing



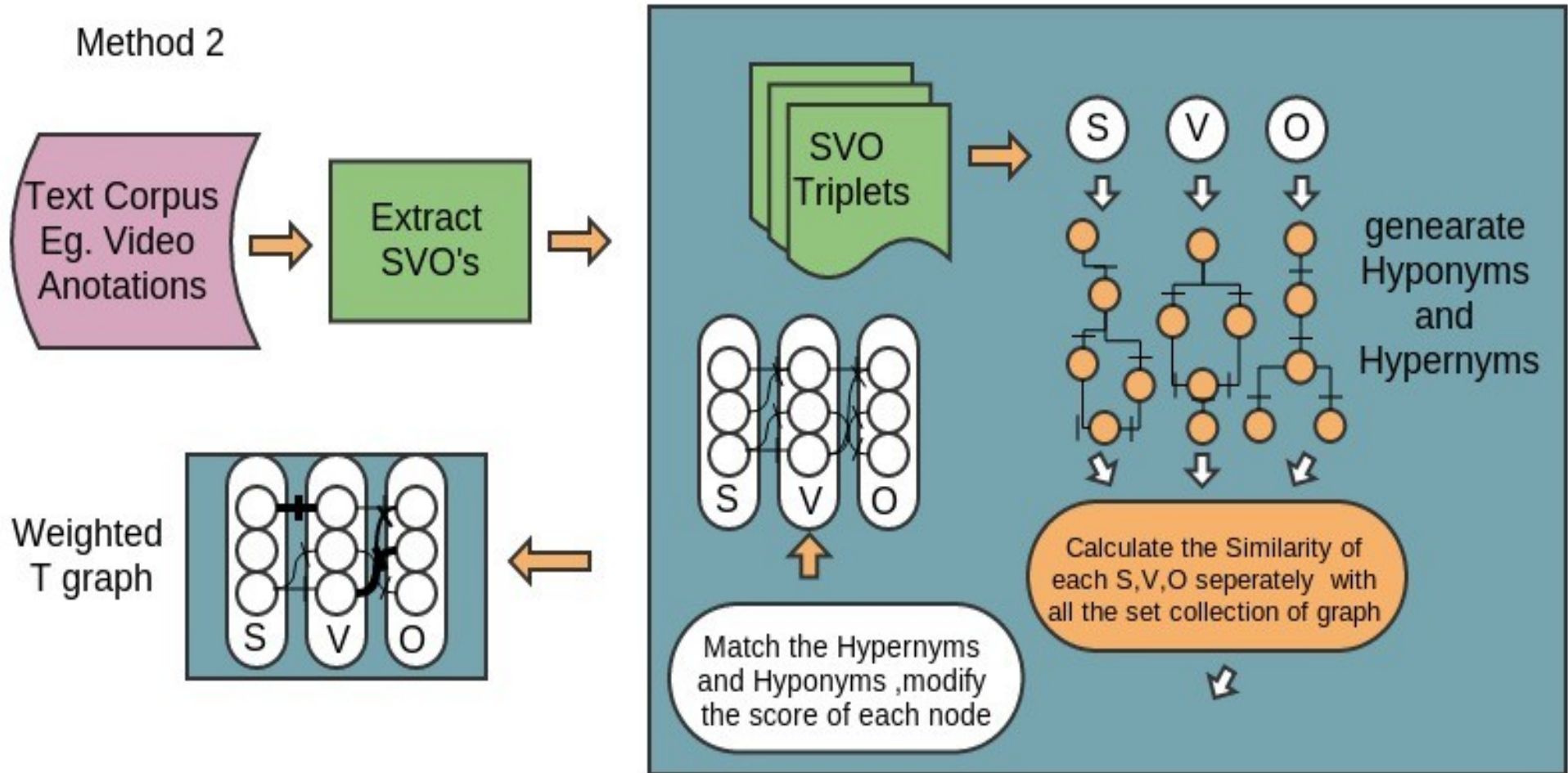
Proposed Methods



Proposed Methods

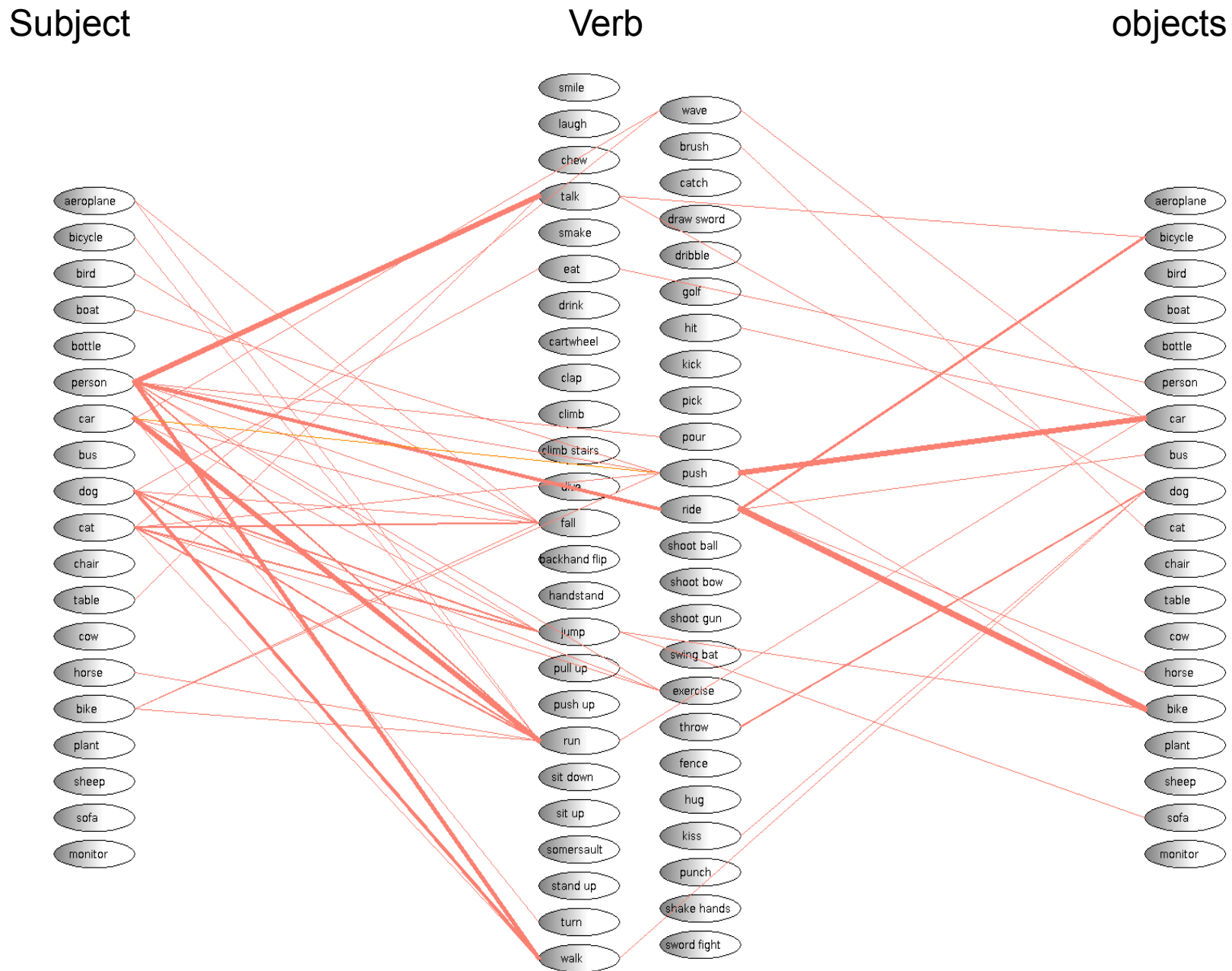


Proposed Methods

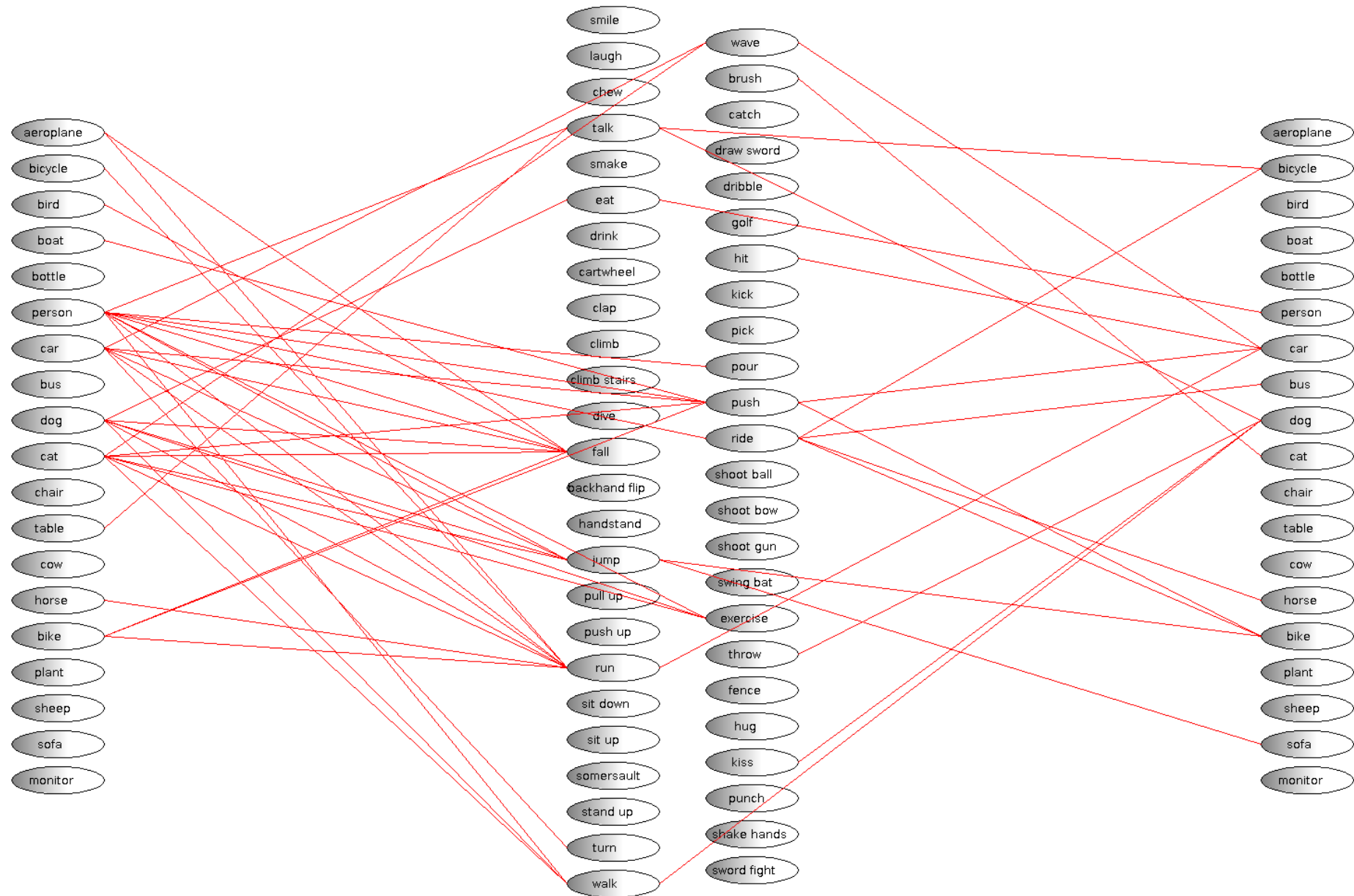


Node Score =

Results: Method1 case1 weighted



Results: Method1 case1 Non-weighted

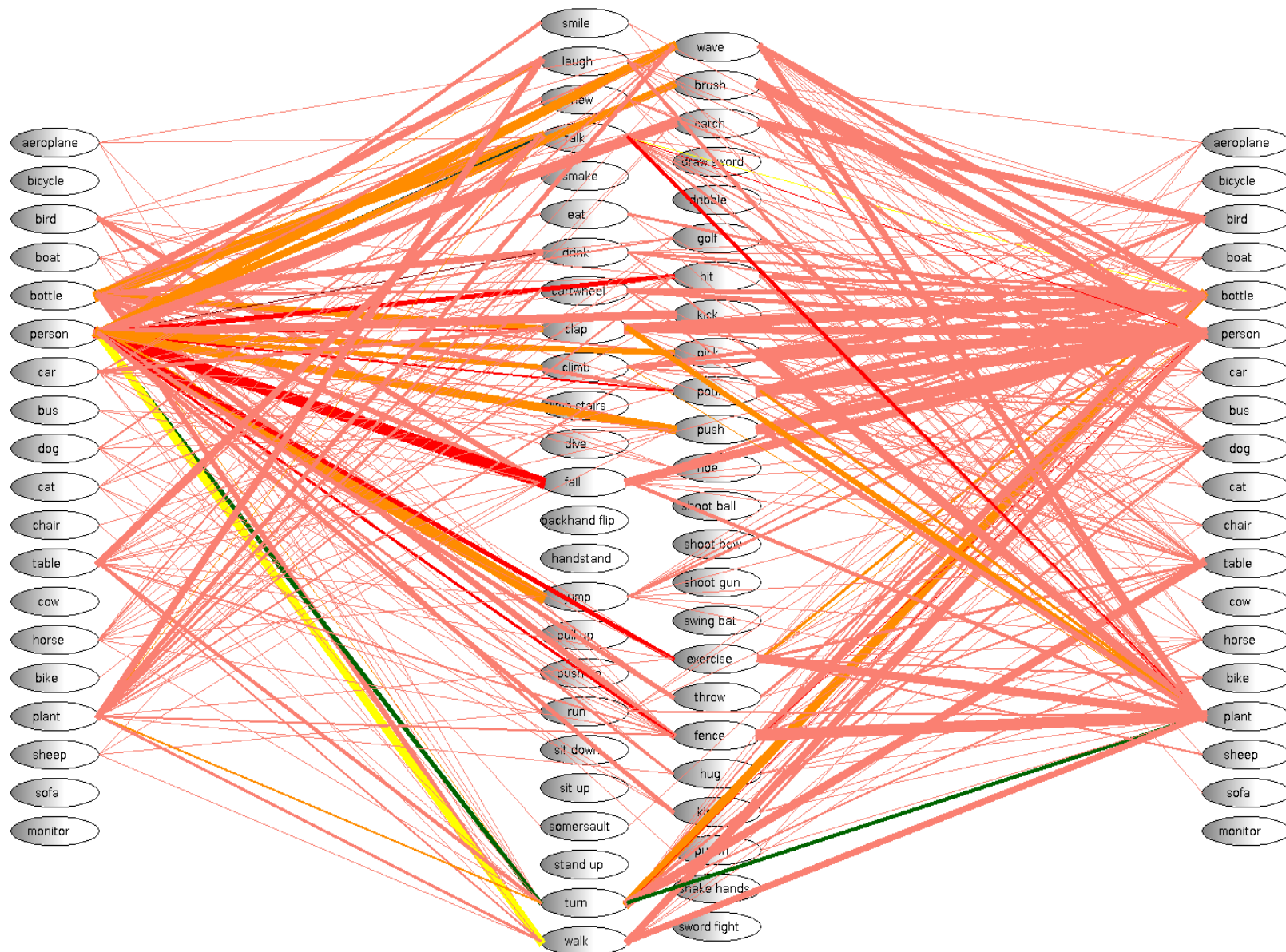


Results: Method1 case2 weighted

Subject

Verb

objects

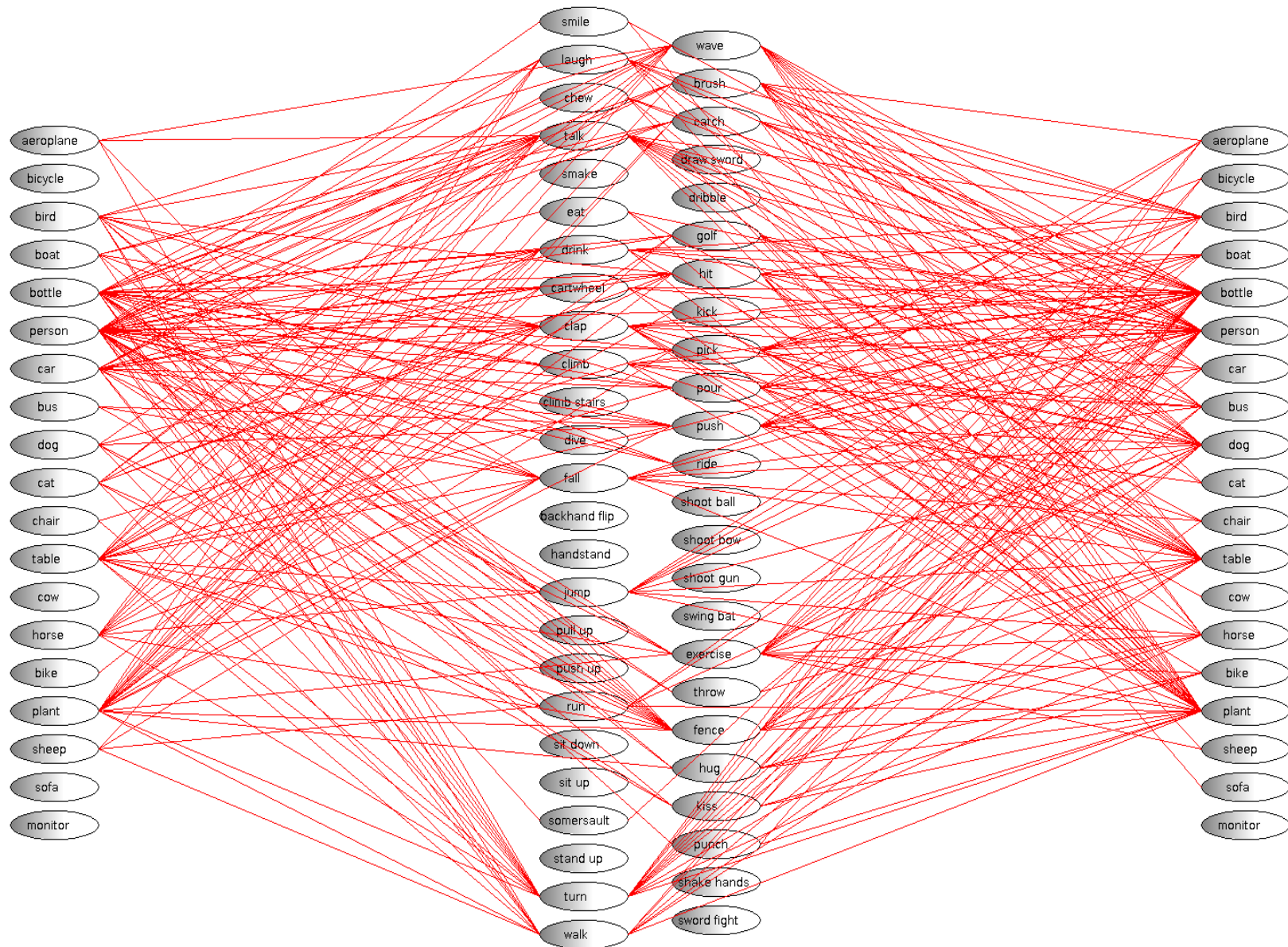


Results: Method1 case2 Non-weighted

Subject

Verb

objects



Results:

Each method outputs two files along with the graph
The files are

1. edgeweight.txt – outputs the connection and its weight, which could be used for calculation of triplet scores
2. SVOoutput.txt – outputs the list of SV, VO and SVO results along with their counts

Methods	Time Taken to complete execution using
Method 1 case 1	31 min
Method 1 case 2	1h 2 min
Method 2	33 min

Table 1: list of methods and time taken to calculate the results for the 3500 annotations text