

RUHR-UNIVERSITÄT BOCHUM

# NETWORK VISUALIZATION

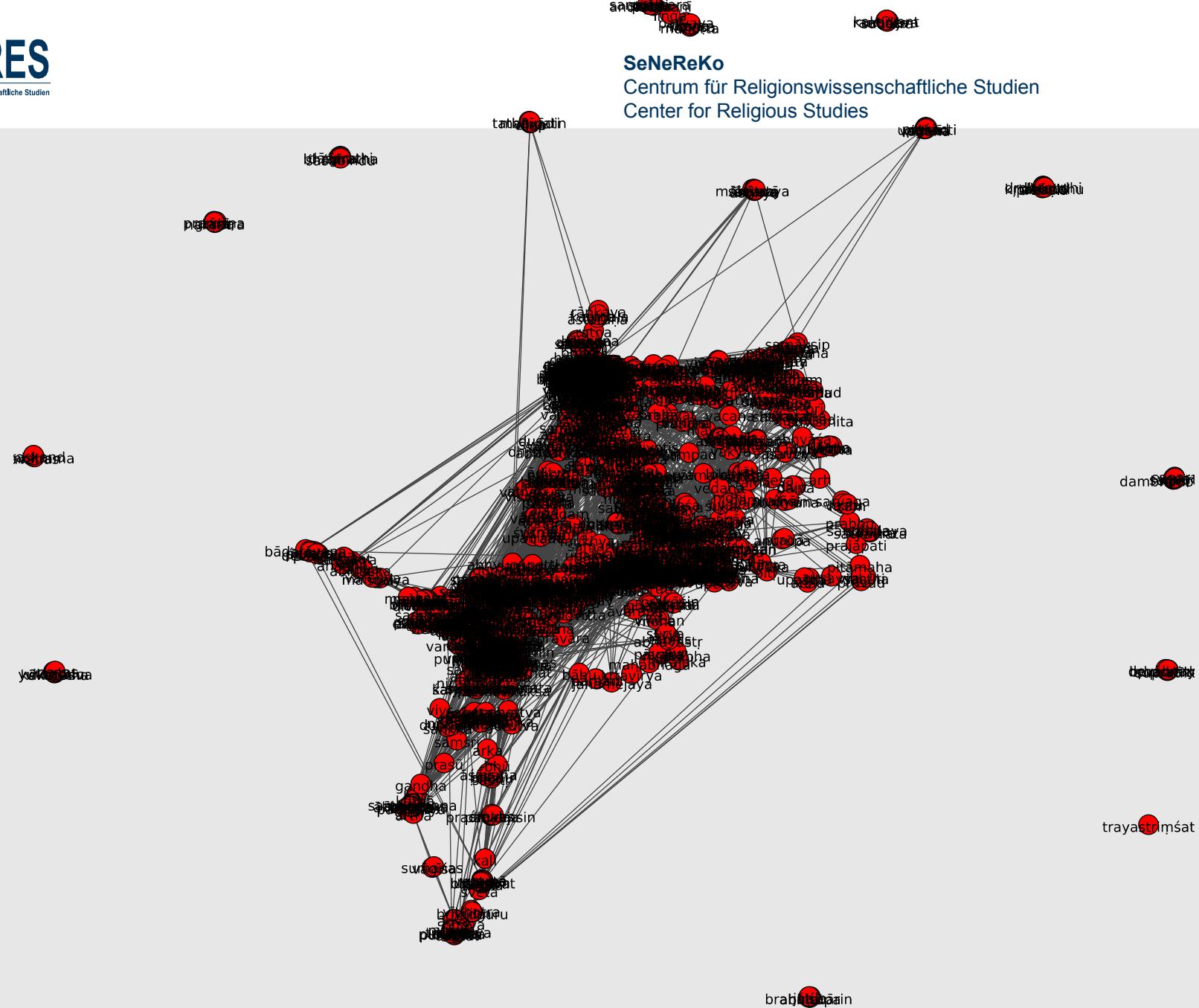
## FREDERIK ELWERT

### July 7, 2014

what  
do we  
visualize?

# Cooccurrence Networks

```
graph = Graph()
for sentence in sentences:
    words = [generalize(word) for word in sentence.words if filter(word)]
    for a, b in combinations(words, 2):
        edge = graph.find_edge(a, b)
        if edge:
            edge['weight'] += 1
        else:
            graph.add_edge(a, b, weight=1)
```





SeNeReKo

Centrum für Religionswissenschaftliche Studien

Center for Religious Studies

# How do we visualize?



SeNeReKo

Centrum für Religionswissenschaftliche Studien

Center for Religious Studies

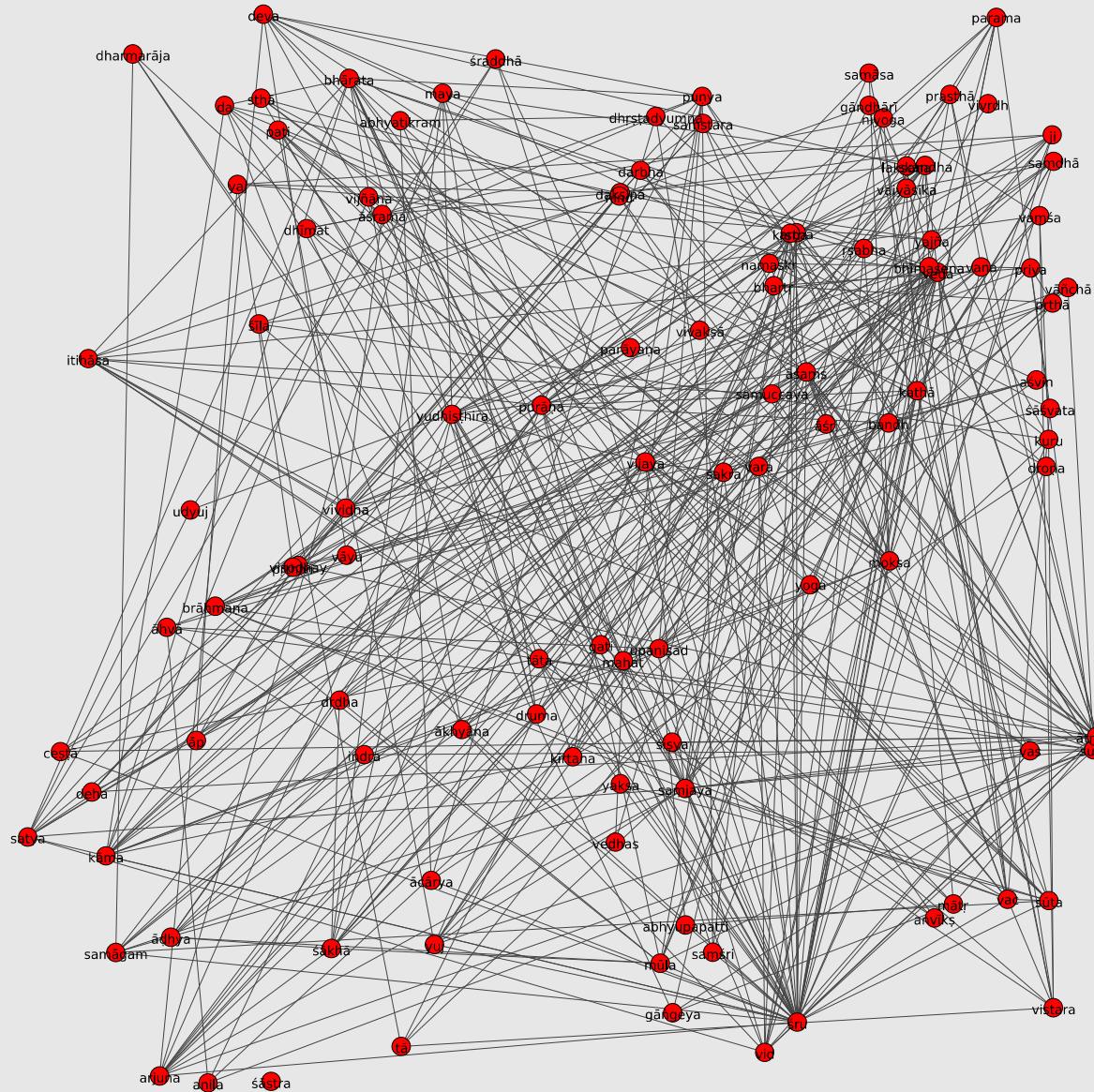
I.

# Layout



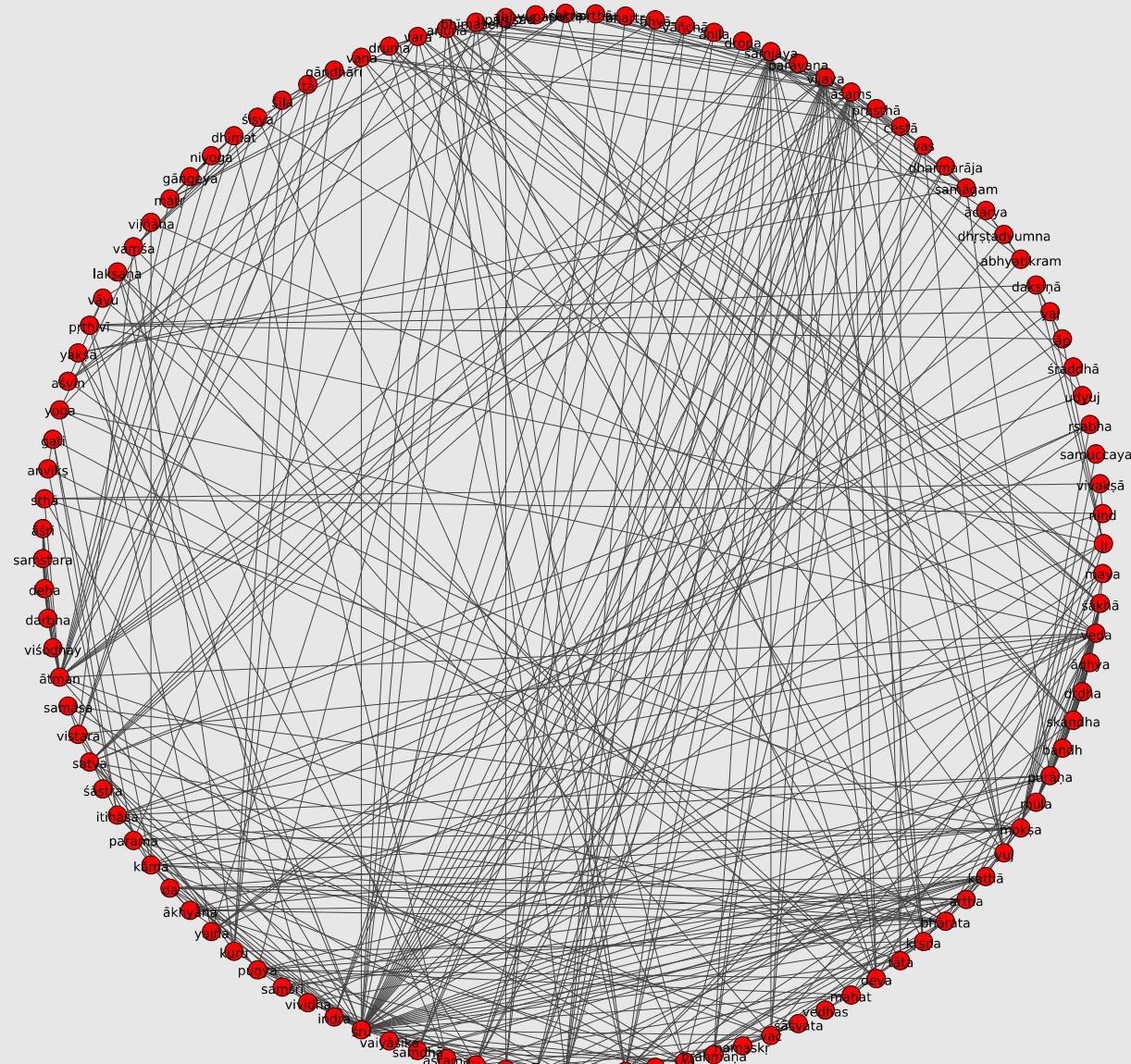
SeNeReKo

Centrum für Religionswissenschaftliche Studien  
Center for Religious Studies



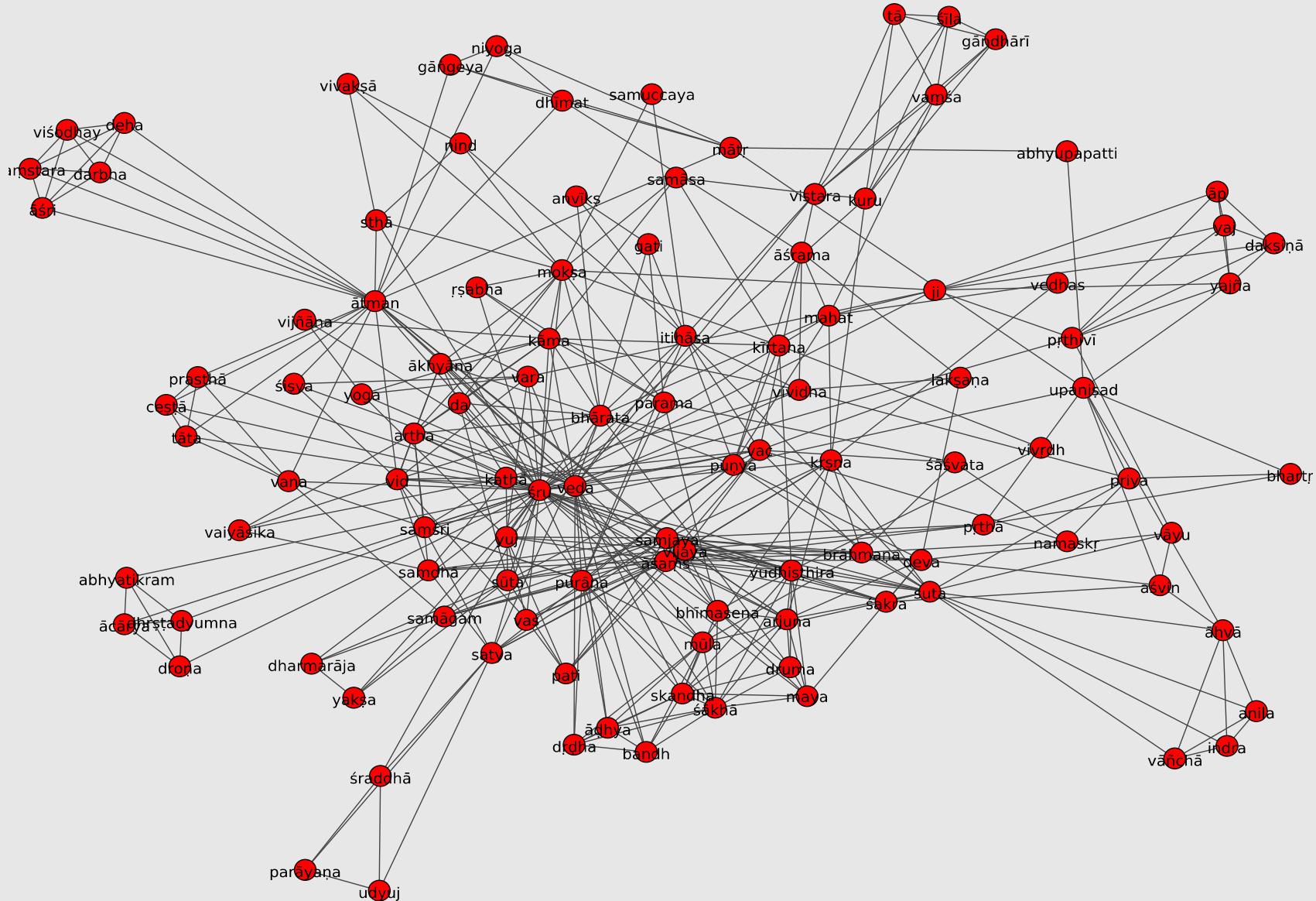


**SeNeReKo**  
Centrum für Religionswissenschaftliche Studien  
Center for Religious Studies





**SeNeReKo**  
Centrum für Religionswissenschaftliche Studien  
Center for Religious Studies



**II.**

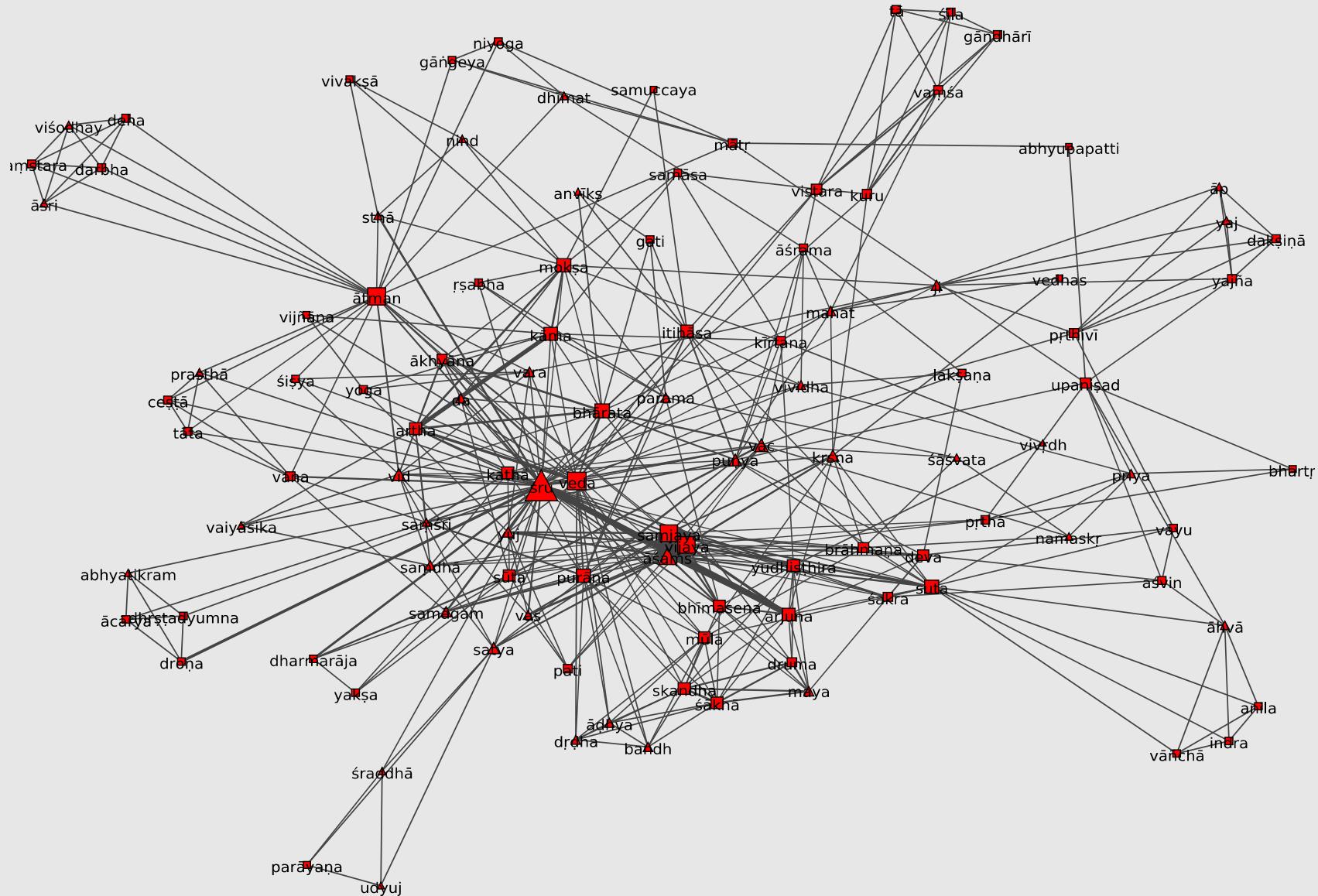
# **Properties**

map(  
    d   a   t   a  
    to  
    *style*)



SeNeReKo

Centrum für Religionswissenschaftliche Studien  
Center for Religious Studies





SeNeReKo

Centrum für Religionswissenschaftliche Studien

Center for Religious Studies

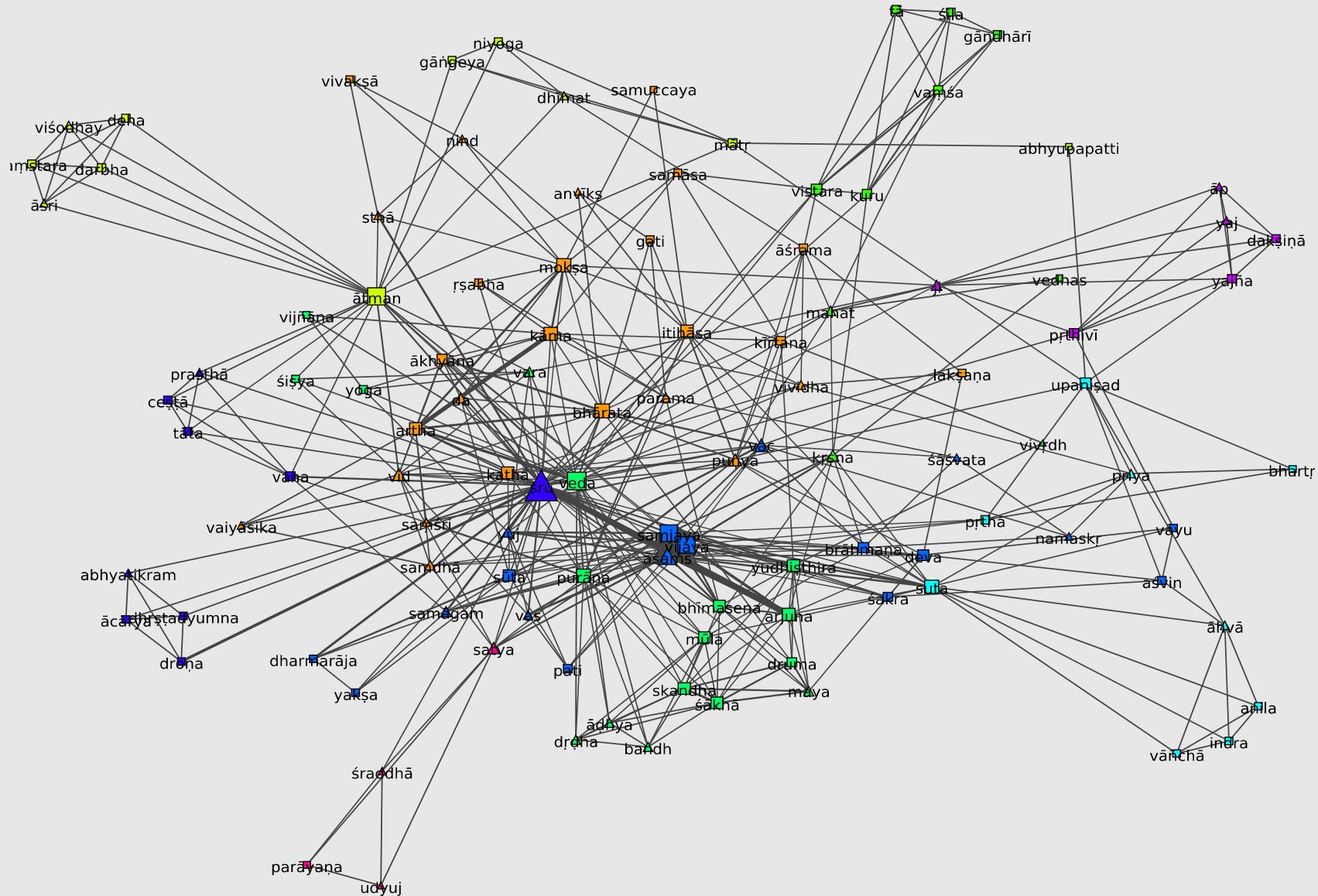
# III.

# Structure



SeNeReKo

Centrum für Religionswissenschaftliche Studien  
Center for Religious Studies





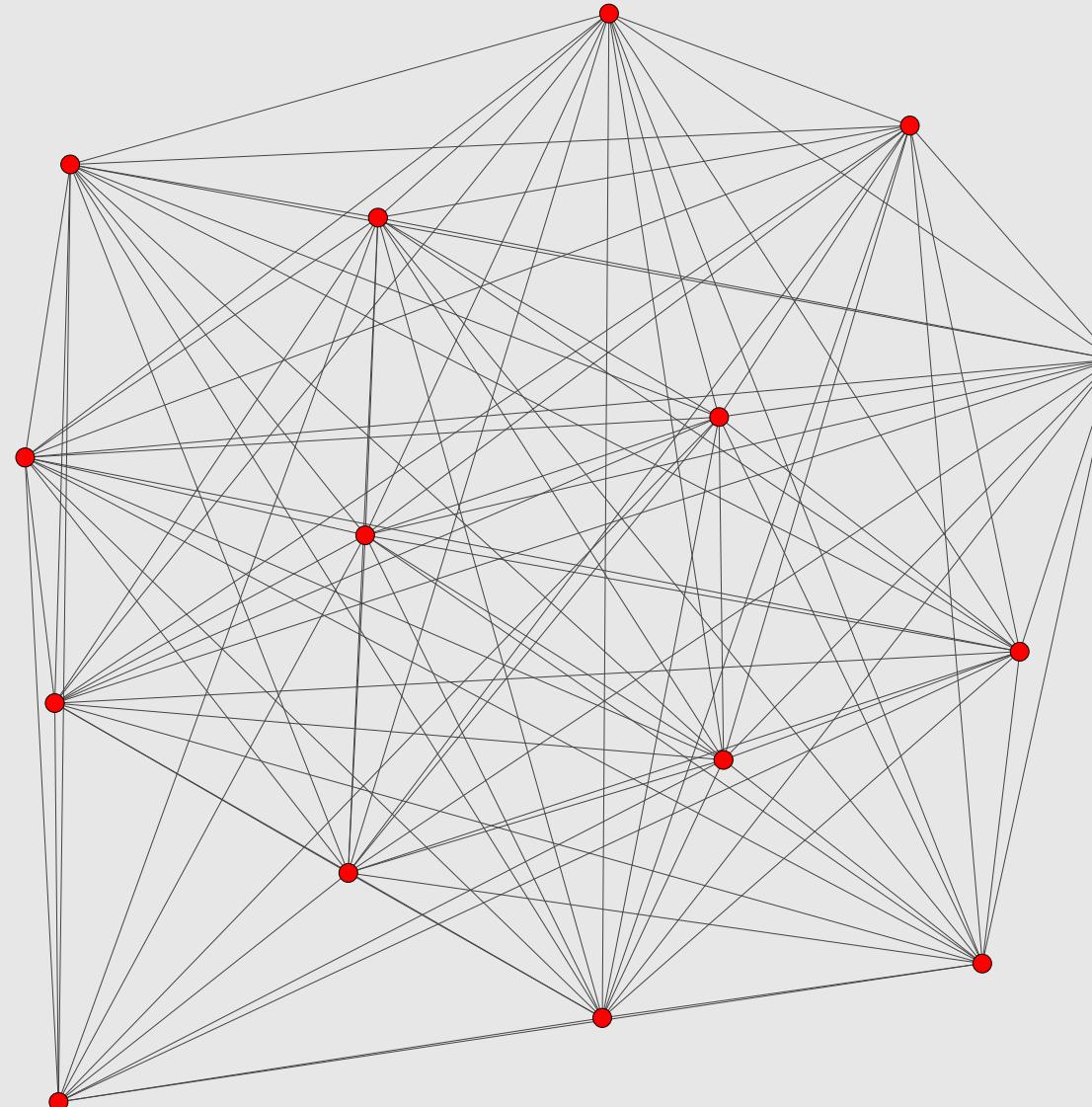
SeNeReKo

Centrum für Religionswissenschaftliche Studien

Center for Religious Studies

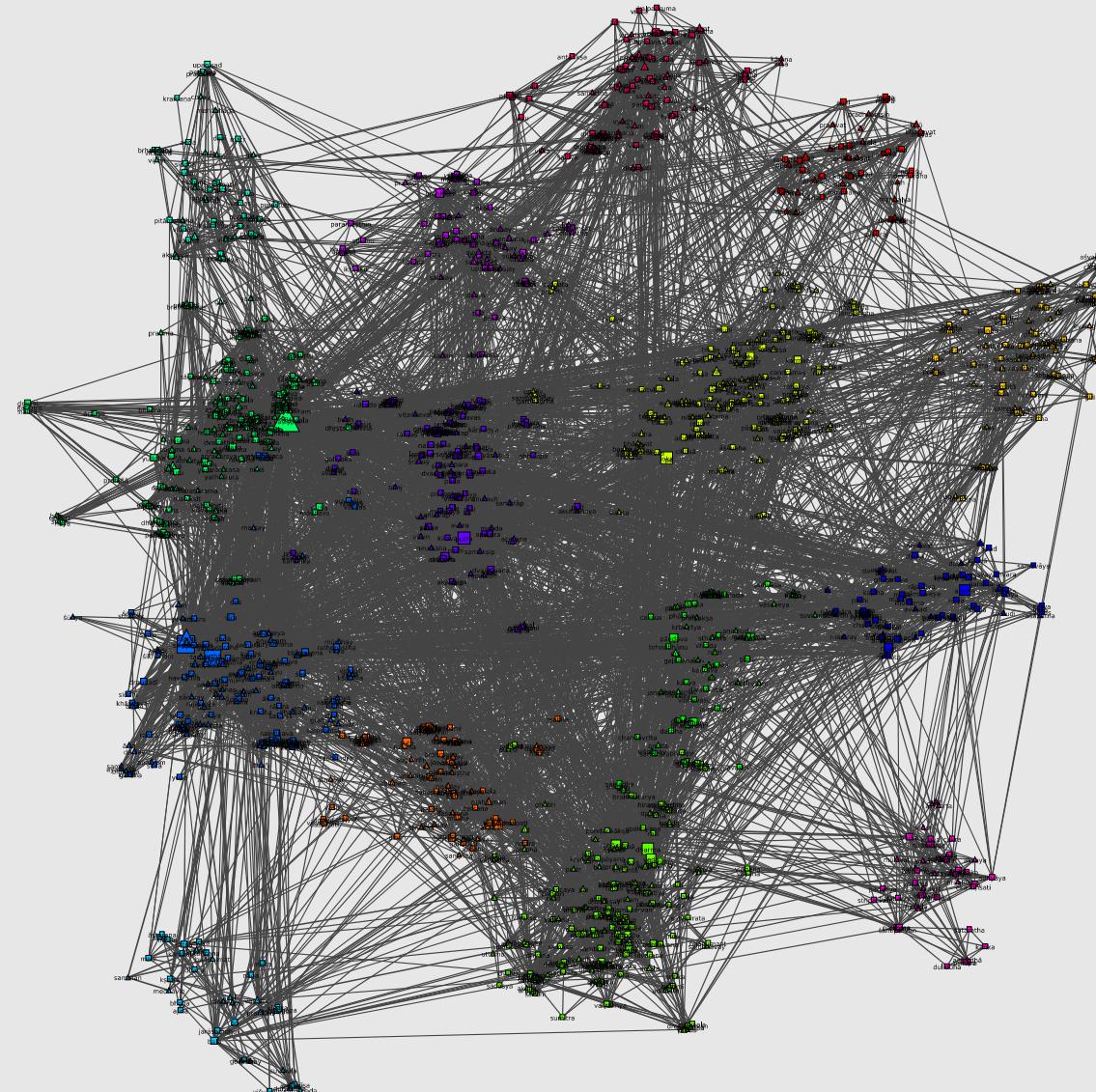
*going*

LARGE



SeNeReKo

Centrum für Religionswissenschaftliche Studien  
Center for Religious Studies





SeNeReKo

Centrum für Religionswissenschaftliche Studien  
Center for Religious Studies

