

# Adjacency Transitivity

## Description

Two nodes are considered to be adjacent if there an edge directly between them. A triad is any triple of nodes (actors) (A, B, C). ~~There are sixteen possible kinds of triads in a directed network.~~ A triad (A, B, C) is said to be transitive if A and B are adjacent and B and C are adjacent. ~~there is a link (tie) from A to B (AB) and a link from B to C (BC), then there is also a link from A to C (AC).~~

Transitivity is defined as the ratio of number of transitive triads (AB, BC and AC) to the total number of those triads (DE and EF) where a third link (DF) would make it transitive.

## Usage Hints

This algorithm must be applied to directed & unweighted networks. Self-loops are ignored.

## Links

- Source Code: [link](#)

## References

Hanneman, Robert A. and Mark Riddle. 2005. Introduction to social network methods. Riverside, CA: University of California, Riverside.

<http://faculty.ucr.edu/~hanneman/nettext/>

## See Also



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