

# Extract Co-Author Network (Text Files)

## Description

Extracts a coauthorship network from a multivalued table.

## Pros & Cons

Returns a network of authors extracted from a pipe '|' separated table with a column labeled "Authors." The algorithm also collects the following information while processing the table:

- The number of works a person has authored.
- The number of times an author is cited. This requires the table contain a column labeled "Times Cited." If the Times Cited column is not present, this calculation is ignored.
- The number of co-authored works between two authors.

## Applications

A coauthorship network is a set of nodes and edges where a node represents an author and an edge indicates that they have worked together on a paper. This algorithm allows a user to generate a coauthorship network in an automated fashion. These networks allow a user to then visualize the structure of the network, which, in turn, can lead to insights about how communities interact.

## Implementation Details

This algorithm is designed to work on .isi files converted through our .isi converter. It will operate on any table that has a column with the header "Authors," but the results will not necessarily be accurate. Please see the [Load Data](#) section to see what file formats are support the "Authors" convention.

## Usage Hints

Use the [Load ISI File with 'ISI flat format'](#) algorithm. Authors with the same name in the "Authors" column will cause erroneous data.

## Links

- [Source Code](#)

## See Also



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