

Network Analysis Report

Analysis Date: December 04, 2025

Executive Summary

This report presents a comprehensive network analysis of character relationships in the screenplay. The analysis examines two distinct types of networks: co-presence (who shares scenes) and dialogue (who speaks to whom).

Key Findings:

- Co-Presence Network: 40 characters, 260 relationships
- Dialogue Network: 38 characters, 101 directed conversations
- Detected Communities: 2 distinct groups (Modularity: 0.271)
- Network Transitivity: 0.645 (measures clustering)
- Dialogue Reciprocity: 0.634 (mutual conversation probability)

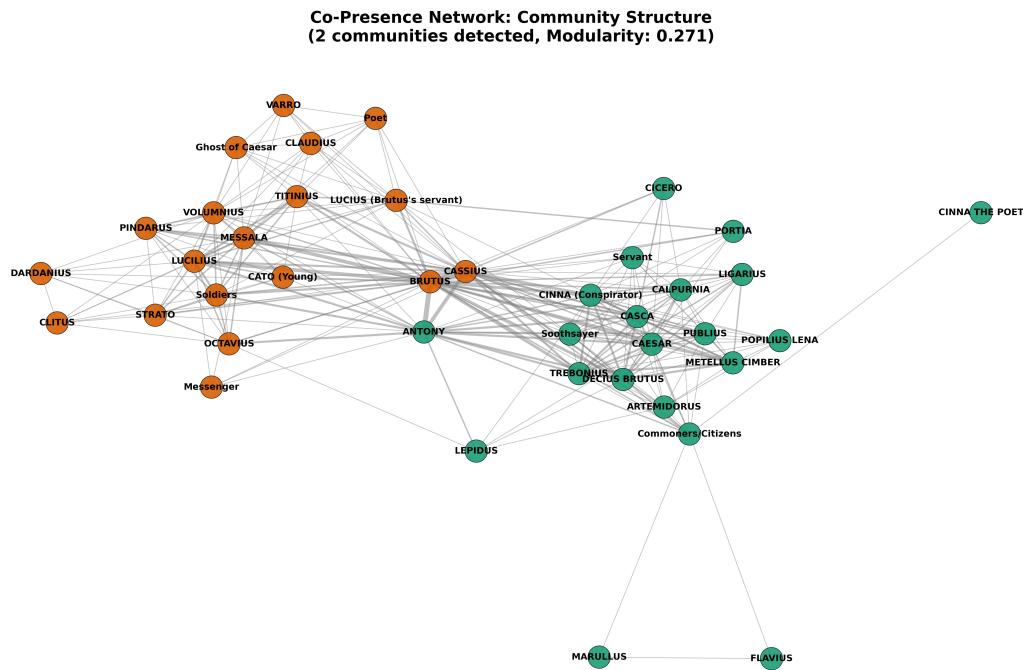
Top 3 Characters by Co-Presence:

1. BRUTUS
2. CASSIUS
3. ANTONY

Section 1: Co-Presence Network Analysis

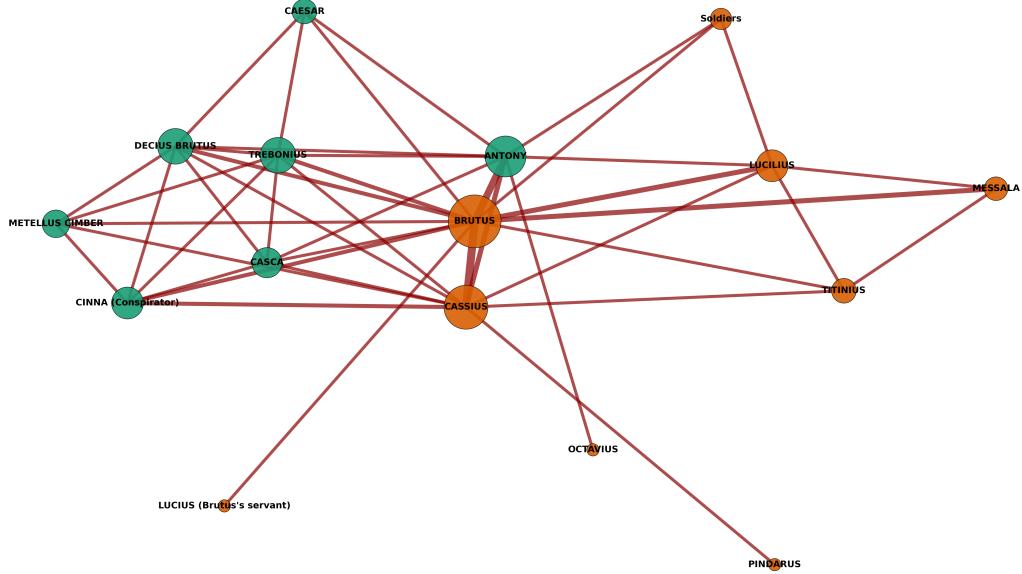
The co-presence network maps which characters share scenes together. This reveals the screenplay's structural decisions about physical proximity and presence.

Community Structure



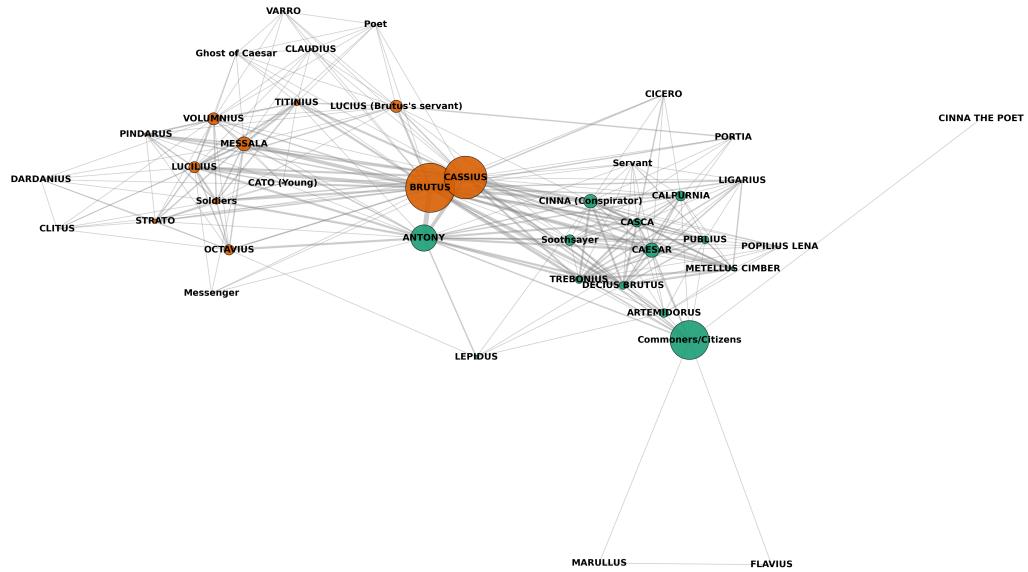
Core Relationships (Filtered)

Filtered Co-Presence Network: Core Structural Relationships (Weight > 2)
Node size = Strength | Edge thickness = Scene count



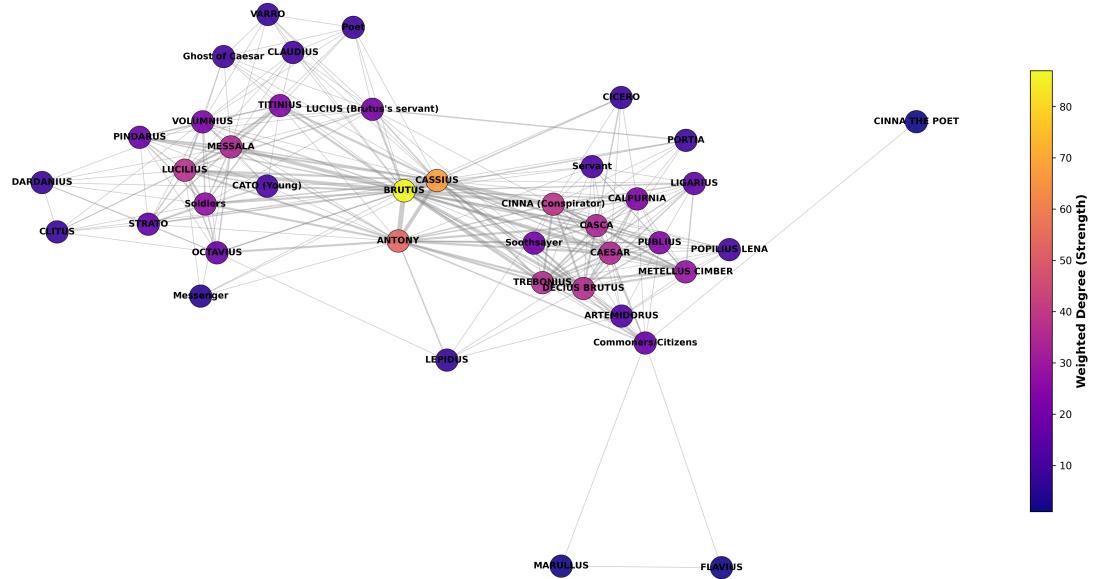
Betweenness Centrality

Co-Presence Network: Betweenness Centrality
Node size = Bridging importance | Larger nodes connect different communities



Strength (Weighted Degree)

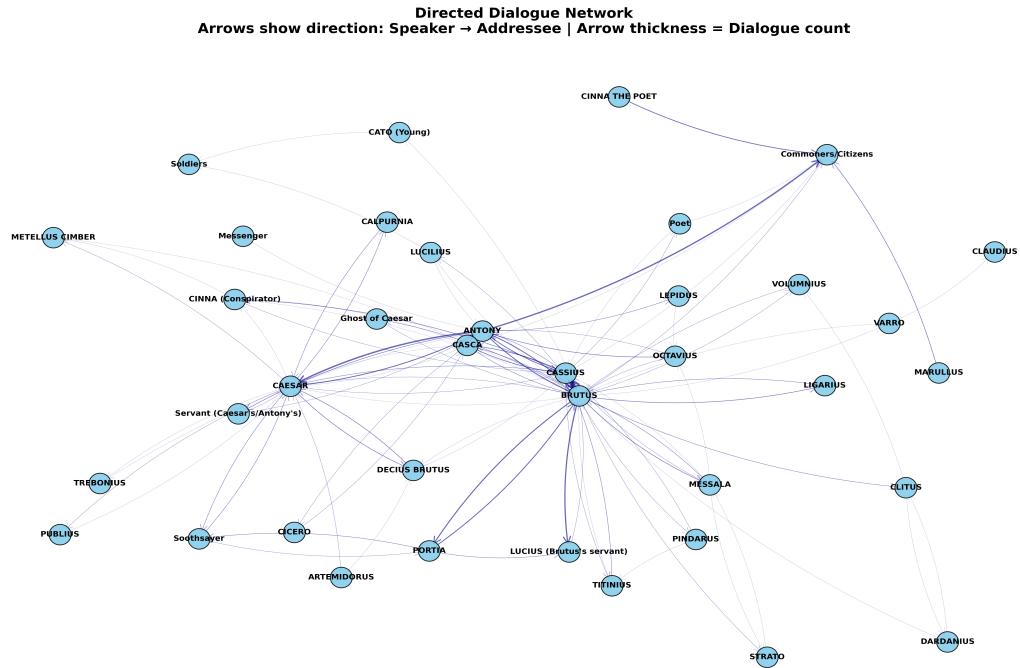
Co-Presence Network: Strength (Total Scene-Sharing)
Color intensity = Total screentime with all other characters



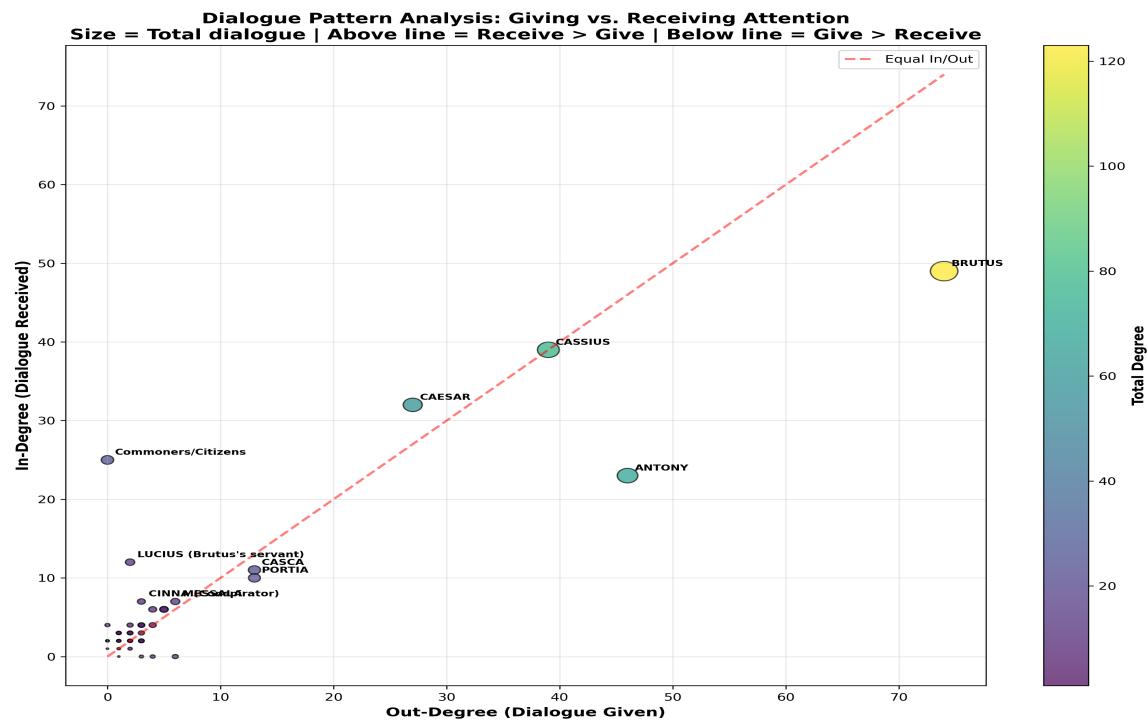
Section 2: Dialogue Network Analysis

The dialogue network is directed, showing who speaks to whom. This reveals communication patterns, power dynamics, and narrative focus.

Directed Dialogue Network



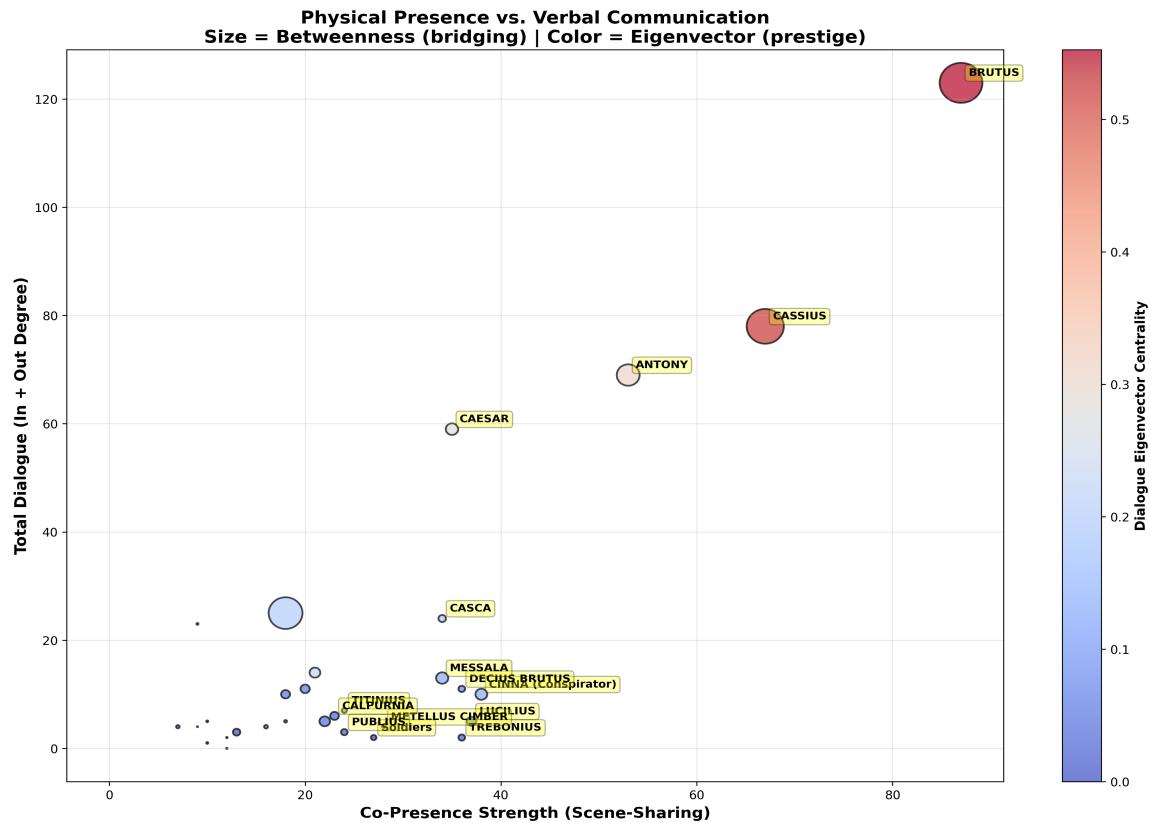
In-Degree vs Out-Degree Analysis



Section 3: Comprehensive Comparison

Comparing co-presence and dialogue networks reveals structural roles and narrative patterns.

Physical Presence vs. Verbal Communication



Identified Structural Roles

Protagonists:

BRUTUS, CASSIUS, ANTONY

Structural Catalysts (high betweenness and dialogue):

BRUTUS, CASSIUS, ANTONY, CAESAR, Commoners/Citizens

Silent Witnesses (high presence, low dialogue):

CINNA (Conspirator), LUCILIUS, TREBONIUS, DECIUS BRUTUS, MESSALA, METELLUS CIMBER,
Soldiers, PUBLIUS, TITINIUS, CALPURNIA, VOLUMNIUS

Status Seekers (speak more than spoken to):

BRUTUS, ANTONY, LUCILIUS, PINDARUS, ARTEMIDORUS, VARRO, Messenger, MARULLUS,
CINNA THE POET