CO-OCCURRENCES

Nodes: 24, Edges: 140

Nodes (decreasing)	Degree Centrality
Iago	0.9565217391304348
Othello	0.9130434782608695
Desdemona	0.9130434782608695
Roderigo	0.8695652173913043
Cassio	0.7391304347826086
Emilia	0.6521739130434783
Montano	0.5217391304347826
Brabantio	0.4782608695652174
Officer	0.4782608695652174
Duke of Venice	0.43478260869565216
First Senator	0.43478260869565216
Second Senator	0.43478260869565216
First Gentleman	0.43478260869565216
Second Gentleman	0.43478260869565216
Third Gentleman	0.43478260869565216
Sailor	0.43478260869565216
Second Messenger	0.43478260869565216
Herald	0.43478260869565216
Lodovico	0.3913043478260869
Gratiano	0.3913043478260869
Bianca	0.3913043478260869
Clown	0.30434782608695654
Musician	0.17391304347826086
First Messenger	0.0

Nodes (decreasing)	Closeness Centrality
Iago	0.9565217391304348
Othello	0.9149338374291116
Desdemona	0.9149338374291116
Roderigo	0.8768115942028986
Cassio	0.7793880837359098
Emilia	0.7256371814092953
Montano	0.657608695652174
Brabantio	0.6376811594202898
Officer	0.6376811594202898
Duke of Venice	0.6189258312020461
First Senator	0.6189258312020461
Second Senator	0.6189258312020461
First Gentleman	0.6189258312020461
Second Gentleman	0.6189258312020461
Third Gentleman	0.6189258312020461
Sailor	0.6189258312020461
Second Messenger	0.6189258312020461
Herald	0.6189258312020461
Lodovico	0.6012422360248447
Gratiano	0.6012422360248447
Bianca	0.6012422360248447
Clown	0.5687426556991775
Musician	0.5260869565217392
First Messenger	0.0

Nodes (decreasing)	Betweenness Centrality
Iago	0.1213485789572746
Othello	0.08412855260681346
Desdemona	0.08412855260681346
Roderigo	0.06963579898362507
Cassio	0.04723790702051572
Emilia	0.027079804253717296
Montano	0.004517221908526255
Brabantio	0.0032938076416337285
Officer	0.0032938076416337285
Clown	0.0029644268774703555
Bianca	0.001976284584980237
Lodovico	0.0004940711462450593
Gratiano	0.0004940711462450593
Duke of Venice	0.0
First Senator	0.0
Second Senator	0.0
First Gentleman	0.0
Second Gentleman	0.0
Third Gentleman	0.0
Sailor	0.0
First Messenger	0.0
Second Messenger	0.0
Herald	0.0
Musician	0.0

Nodes (decreasing)	Eigenvector Centrality
Iago	0.3158567775502335
Othello	0.3111314280948038
Desdemona	0.3111314280948038
Roderigo	0.30268619239750644
Cassio	0.2573950674623816
Emilia	0.23156814436761836
Montano	0.20725097609833304
Officer	0.18748180850105498
Brabantio	0.18748180850105495
First Gentleman	0.18415473654366624
Second Gentleman	0.18415473654366624
Third Gentleman	0.18415473654366624
Herald	0.18415473654366624
Duke of Venice	0.1697529849943574
First Senator	0.1697529849943574
Second Senator	0.1697529849943574
Sailor	0.1697529849943574
Second Messenger	0.1697529849943574
Lodovico	0.16766087632888188
Gratiano	0.16766087632888188
Bianca	0.16183112703251445
Clown	0.12261178236558283
Musician	0.06860491416152607
First Messenger	2.486354936798469e-15

Nodes (decreasing)	Katz Centrality
Iago	0.333871549504352
Desdemona	0.33242857622585603
Othello	0.3324285762258559
Roderigo	0.32428254450932065
Cassio	0.2646512192658628
Emilia	0.23258868685202314
Montano	0.2097075983523508
First Gentleman	0.18113828672372254
Herald	0.18113828672372242
Third Gentleman	0.1811382867237223
Second Gentleman	0.18113828672372223
Officer	0.1763439282761182
Brabantio	0.17634392827611814
Gratiano	0.15713121395745638
Lodovico	0.1571312139574563
First Senator	0.1522847265246764
Sailor	0.1522847265246762
Second Messenger	0.1522847265246762
Second Senator	0.15228472652467615
Duke of Venice	0.15228472652467606
Bianca	0.14621291855105076
Clown	0.08960634888188929
Musician	0.015872706063456116
First Messenger	-0.07619907438695654

Nodes (decreasing)	Appearances
Iago	13
Othello	12
Cassio	9
Desdemona	9
Emilia	8
Roderigo	7
Lodovico	4
Brabantio	3
Montano	3
Bianca	3
Officer	2
Clown	2
Gratiano	2
Duke of Venice	1
First Senator	1
Second Senator	1
Sailor	1
First Messenger	1
First Gentleman	1
Second Gentleman	1
Third Gentleman	1
Second Messenger	1
Herald	1
First Musician	1

Character 1	Character 2	Co-occurrences
Iago	Othello	11
Cassio	Iago	9
Desdemona	Othello	9
Desdemona	Iago	8
Cassio	Othello	8
Iago	Roderigo	7
Emilia	Iago	7
Emilia	Othello	7
Othello	Roderigo	6
Cassio	Desdemona	6
Cassio	Emilia	6
Desdemona	Emilia	6
Cassio	Roderigo	4
Desdemona	Roderigo	4
Lodovico	Othello	4
Brabantio	Iago	3
Iago	Montano	3
Bianca	Iago	3
Iago	Lodovico	3
Brabantio	Roderigo	3
Emilia	Roderigo	3
Montano	Othello	3
Bianca	Othello	3
Cassio	Montano	3
Bianca	Cassio	3
Cassio	Lodovico	3
Desdemona	Montano	3
Desdemona	Lodovico	3
Emilia	Lodovico	3
Iago	Officer	2
Clown	Iago	2
Gratiano	Iago	2
Officer	Roderigo	2
Montano	Roderigo	2
Brabantio	Othello	2
Brabantio	Officer	2
Officer	Othello	2
Gratiano	Othello	2
Cassio	Clown	2
Cassio	Gratiano	2
Bianca	Desdemona	2
Emilia	Montano	2
Clown	Emilia	2
Bianca	Emilia	2
Emilia	Gratiano	2
Bianca	Lodovico	2
Gratiano	Lodovico	2
Duke of Venice	Iago	1
First Senator	Iago	1
Iago	Second Senator	1
Iago	Sailor	1
First Messenger	Iago	1
First Gentleman	Iago	1
Iago	Second Gentleman	1
Iago	Third Gentleman	1
Iago	Second Messenger	1
First Musician	Iago	1
Duke of Venice	Roderigo	1
First Senator	Roderigo	1
Roderigo	Second Senator	1
Roderigo	Sailor	1
First Messenger	Roderigo	1
First Gentleman	Roderigo	1
Roderigo	Second Gentleman	1
Roderigo	Third Gentleman	1
Roderigo	Second Messenger	1
Gratiano	Roderigo	1
Lodovico	Roderigo	1
Bianca	Roderigo	1
Brabantio	Cassio	1
Brabantio	Duke of Venice	1
Brabantio	First Senator	1
Brabantio	Second Senator	1
Brabantio	Sailor	1
Brabantio	First Messenger	1
Brabantio	Desdemona	1
Duke of Venice	Othello	1
First Senator	Othello	1
Othello	Second Senator	1
Othello	Sailor	1
First Messenger	Othello	1
First Gentleman	Othello	1
Othello	Second Gentleman	1
Othello	Third Gentleman	1
Othello	Second Messenger	1
Clown	Othello	1
Cassio	Officer	1
Cassio	First Gentleman	1
Cassio	Second Gentleman	1

Cassio	Third Gentleman	1
Cassio	Second Messenger	1
Cassio	First Musician	1
Duke of Venice	Officer	1
First Senator	Officer	1
Officer	Second Senator	1
Officer	Sailor	1
First Messenger	Officer	1
Desdemona	Officer	1
Duke of Venice	First Senator	1
Duke of Venice	Second Senator	1
Duke of Venice	Sailor	1
Duke of Venice	First Messenger	1
Desdemona	Duke of Venice	1
First Senator	Second Senator	1
First Senator	Sailor	1
First Messenger	First Senator	1
Desdemona	First Senator	1
Sailor	Second Senator	1
First Messenger	Second Senator	1
Desdemona	Second Senator	1

First Messenger	Sailor	1
Desdemona	Sailor	1
Desdemona	First Messenger	1
Desdemona	First Gentleman	1
Desdemona	Second Gentleman	1
Desdemona	Third Gentleman	1
Desdemona	Second Messenger	1
Clown	Desdemona	1
Desdemona	Gratiano	1
First Gentleman	Montano	1
Montano	Second Gentleman	1
Montano	Third Gentleman	1
Montano	Second Messenger	1
Gratiano	Montano	1
Lodovico	Montano	1
First Gentleman	Second Gentleman	1
First Gentleman	Third Gentleman	1
First Gentleman	Second Messenger	1
Emilia	First Gentleman	1
Second Gentleman	Third Gentleman	1
Second Gentleman	Second Messenger	1
Emilia	Second Gentleman	1
Second Messenger	Third Gentleman	1

Emilia	Third Gentleman	1
Emilia	Second Messenger	1
Emilia	First Musician	1
Clown	First Musician	1
Bianca	Clown	1
Bianca	Gratiano	1

Standardizzo i valori numerici, riducendo i valori 1, 2 e 3 ad un peso pari a 1 per gli archi, i valori 4,6 e 7 riconducibili al numero 2 e infine i valori 8, 9 e 11 ridotti al numero 3.

CO-MEMBERSHIP

Nodes: 24, edges: 48

Nodes (decreasing)	Degree Centrality
Emilia	0.21739130434782608
Roderigo	0.21739130434782608
Lodovico	0.21739130434782608
Gratiano	0.21739130434782608
Clown	0.21739130434782608
First Gentleman	0.21739130434782608
Second Gentleman	0.21739130434782608
Third Gentleman	0.21739130434782608
First Messenger	0.21739130434782608
Second Messenger	0.21739130434782608
Herald	0.21739130434782608
Musician	0.21739130434782608
Brabantio	0.17391304347826086
Duke of Venice	0.17391304347826086
Montano	0.17391304347826086
First Senator	0.17391304347826086
Second Senator	0.17391304347826086
Othello	0.13043478260869565
Iago	0.13043478260869565
Cassio	0.13043478260869565
Officer	0.13043478260869565
Desdemona	0.0
Bianca	0.0
Sailor	0.0

Betweenness Centrality 0.0 to all nodes

Nodes (decreasing)	Closeness Centrality
Emilia	0.21739130434782608
Roderigo	0.21739130434782608
Lodovico	0.21739130434782608
Gratiano	0.21739130434782608
Clown	0.21739130434782608
First Gentleman	0.21739130434782608
Second Gentleman	0.21739130434782608
Third Gentleman	0.21739130434782608
First Messenger	0.21739130434782608
Second Messenger	0.21739130434782608
Herald	0.21739130434782608
Musician	0.21739130434782608
Brabantio	0.17391304347826086
Duke of Venice	0.17391304347826086
Montano	0.17391304347826086
First Senator	0.17391304347826086
Second Senator	0.17391304347826086
Othello	0.13043478260869565
Iago	0.13043478260869565
Cassio	0.13043478260869565
Officer	0.13043478260869565
Desdemona	0.0
Bianca	0.0
Sailor	0.0

Nodes (decreasing)	Eigenvector Centrality
Emilia	0.2886751342446109
Roderigo	0.2886751342446109
Lodovico	0.2886751342446109
Gratiano	0.2886751342446109
Clown	0.2886751342446109
First Gentleman	0.2886751342446109
Second Gentleman	0.2886751342446109
Third Gentleman	0.2886751342446109
First Messenger	0.2886751342446109
Second Messenger	0.2886751342446109
Herald	0.2886751342446109
Musician	0.2886751342446109
Brabantio	2.2028482576454518e-05
Duke of Venice	2.2028482576454518e-05
Montano	2.2028482576454518e-05
First Senator	2.2028482576454518e-05
Second Senator	2.2028482576454518e-05
Othello	2.01216645958772e-10
Iago	2.01216645958772e-10
Cassio	2.01216645958772e-10
Officer	2.01216645958772e-10
Desdemona	9.920746592285795e-42
Bianca	9.920746592285795e-42
Sailor	9.920746592285795e-42

Nodes (decreasing)	Katz Centrality
Roderigo	0.2339987201737651
Lodovico	0.2339987201737651
Gratiano	0.2339987201737651
First Gentleman	0.2339987201737651
Second Gentleman	0.2339987201737651
Third Gentleman	0.2339987201737651
First Messenger	0.2339987201737651
Clown	0.2339872017376505
Second Messenger	0.2339872017376505
Herald	0.2339872017376505
Musician	0.2339872017376505
Emilia	0.2339872017376502
Brabantio	0.19499893347813757
Montano	0.19499893347813757
First Senator	0.19499893347813757
Second Senator	0.19499893347813757
Duke of Venice	0.19499893347813754
Iago	0.16714194298126078
Cassio	0.16714194298126078
Officer	0.16714194298126078
Othello	0.16714194298126073
Desdemona	0.11699936008688253
Bianca	0.11699936008688253
Sailor	0.11699936008688253

RELATIONS

Nodes: 24, edges: 25

Nodes (decreasing)	Degree Centrality
Othello	0.2608695652173913
Desdemona	0.2608695652173913
Brabantio	0.2608695652173913
Duke of Venice	0.21739130434782608
Iago	0.17391304347826086
Cassio	0.13043478260869565
First Senator	0.13043478260869565
Second Senator	0.13043478260869565
Emilia	0.08695652173913043
Roderigo	0.08695652173913043
Lodovico	0.08695652173913043
Gratiano	0.08695652173913043
Clown	0.08695652173913043
Bianca	0.043478260869565216
First Messenger	0.043478260869565216
Second Messenger	0.043478260869565216
Herald	0.043478260869565216
Montano	0.0
First Gentleman	0.0
Second Gentleman	0.0
Third Gentleman	0.0
Officer	0.0
Sailor	0.0
Musician	0.0

Nodes (decreasing)	Closeness Centrality
Desdemona	0.37051039697542537
Othello	0.34086956521739137
Brabantio	0.30434782608695654
Clown	0.28405797101449276
Emilia	0.27489481065918653
Lodovico	0.266304347826087
Gratiano	0.266304347826087
Iago	0.2582451910408435
Cassio	0.2506393861892583
Roderigo	0.23671497584541065
Herald	0.2242562929061785
Duke of Venice	0.21850613154960982
First Senator	0.21850613154960982
Second Senator	0.21850613154960982
Bianca	0.18131359851988899
First Messenger	0.043478260869565216
Second Messenger	0.043478260869565216
Montano	0.0
First Gentleman	0.0
Second Gentleman	0.0
Third Gentleman	0.0
Officer	0.0
Sailor	0.0
Musician	0.0

Nodes (decreasing)	Betweenness Centrality
Desdemona	0.19960474308300394
Othello	0.1679841897232016
Brabantio	0.13241106719367587
Cassio	0.05138339920948616
Iago	0.01976284584980237
Emilia	0.01383399209486166
Roderigo	0.0
Duke of Venice	0.0
Lodovico	0.0
Gratiano	0.0
Montano	0.0
Bianca	0.0
Clown	0.0
First Senator	0.0
Second Senator	0.0
First Gentleman	0.0
Second Gentleman	0.0
Third Gentleman	0.0
Officer	0.0
Sailor	0.0
First Messenger	0.0
Second Messenger	0.0
Herald	0.0
Musician	0.0

Nodes (decreasing)	Eigenvector Centrality
Brabantio	0.4748275883700733
Desdemona	0.39661547867057045
Duke of Venice	0.37731583330254
First Senator	0.2994497625788286
Second Senator	0.2994497625788286
Othello	0.2746495334146103
Lodovico	0.22660346631251146
Gratiano	0.22660346631251146
Clown	0.17455225592664025
Iago	0.172583733706922429
Emilia	0.14801162702071602
Cassio	0.12473150658537861
Roderigo	0.11629715418886358
Herald	0.07141889154739389
Bianca	0.032434932237175425
First Messenger	2.5533079036641794e-24
Second Messenger	2.5533079036641794e-24
Montano	2.21464158094169e-42
First Gentleman	2.21464158094169e-42
Second Gentleman	2.21464158094169e-42
Third Gentleman	2.21464158094169e-42
Officer	2.21464158094169e-42
Sailor	2.21464158094169e-42
Musician	2.21464158094169e-42

Nodes (decreasing)	Katz Centrality
Brabantio	0.28989654218552474
Desdemona	0.28914030896739595
Othello	0.2829107367846415
Duke of Venice	0.24849626014371118
Iago	0.24007521161503598
Second Senator	0.2259056910397375
First Senator	0.22590569103973746
Cassio	0.2189111203342613
Gratiano	0.2073795268181322
Lodovico	0.2073795268181328218
Clown	0.20668094627804393
Emilia	0.2023973937610833
Roderigo	0.2017443654280783
Herald	0.1777669538130426
Bianca	0.1713695490618276
First Messenger	0.1660842685587122
Second Messenger	0.1660842685587122
Montano	0.149475841702401
First Gentleman	0.149475841702401
Second Gentleman	0.149475841702401
Third Gentleman	0.149475841702401
Officer	0.149475841702401
Sailor	0.149475841702401
Musician	0.149475841702401

INTERACTIONS

Nodes: 24, edges: 19

Nodes (decreasing)	Degree Centrality
Othello	0.43478260869565216
Iago	0.30434782608695654
Cassio	0.21739130434782608
Emilia	0.17391304347826086
Desdemona	0.13043478260869565
Roderigo	0.08695652173913043
Brabantio	0.08695652173913043
Duke of Venice	0.043478260869565216
Montano	0.043478260869565216
Bianca	0.043478260869565216
First Senator	0.043478260869565216
Second Senator	0.043478260869565216
Lodovico	0.0
Gratiano	0.0
Clown	0.0
First Gentleman	0.0
Second Gentleman	0.0
Third Gentleman	0.0
Officer	0.0
Sailor	0.0
First Messenger	0.0
Second Messenger	0.0
Herald	0.0
Musician	0.0

Nodes (decreasing)	Closeness Centrality
Othello	0.37577639751552794
Iago	0.3507246376811594
Cassio	0.30946291560102307
Emilia	0.2922705314009662
Desdemona	0.2630434782608696
Brabantio	0.2505175983436853
Roderigo	0.2287334593572779
Duke of Venice	0.21920289855072464
First Senator	0.21920289855072464
Second Senator	0.21920289855072464
Bianca	0.21043478260869566
Montano	0.19484702093397746
Lodovico	0.0
Gratiano	0.0
Clown	0.0
First Gentleman	0.0
Second Gentleman	0.0
Third Gentleman	0.0
Officer	0.0
Sailor	0.0
First Messenger	0.0
Second Messenger	0.0
Herald	0.0
Musician	0.0

Nodes (decreasing)	Betweenness Centrality
Othello	0.11725955204216074
Iago	0.0678524374176548
Cassio	0.04940711462450593
Emilia	0.0026350461133069825
Desdemona	0.0
Roderigo	0.0
Brabantio	0.0
Duke of Venice	0.0
Lodovico	0.0
Gratiano	0.0
Montano	0.0
Bianca	0.0
Clown	0.0
First Senator	0.0
Second Senator	0.0
First Gentleman	0.0
Second Gentleman	0.0
Third Gentleman	0.0
Officer	0.0
Sailor	0.0
First Messenger	0.0
Second Messenger	0.0
Herald	0.0
Musician	0.0

Nodes (decreasing)	Eigenvector Centrality	Nodes (decreasing)	Katz Centrality
Othello	0.5654118873131692	Othello	0.37893508528762027
Iago	0.44733596461963593	Iago	0.3291703634562647
Emilia	0.3601399015217771	Cassio	0.286282090205991
Cassio	0.35155460215151235	Emilia	0.27343866713491816
Desdemona	0.2975229099747902	Desdemona	0.24741302257073722
Brabantio	0.2194757000793953	Brabantio	0.22006915585724543
Roderigo	0.17313120146762942	Roderigo	0.21080385634908247
Duke of Venice	0.12253168022940818	First Senator	0.18715211951161892
First Senator	0.12253168022940818	Second Senator	0.18715211951161892
Second Senator	0.12253168022940818	Duke of Venice	0.1871521195116189
Bianca	0.09694402019494583	Bianca	0.18217564732848343
Montano	0.07618718161764229	Montano	0.17788682000345593
Lodovico	3.4495868677199386e-10	Lodovico	0.14925861098285687
Gratiano	3.4495868677199386e-10	Gratiano	0.14925861098285687
Clown	3.4495868677199386e-10	Clown	0.14925861098285687
First Gentleman	3.4495868677199386e-10	First Gentleman	0.14925861098285687
Second Gentleman	3.4495868677199386e-10	Second Gentleman	0.14925861098285687
Third Gentleman	3.4495868677199386e-10	Third Gentleman	0.14925861098285687
Officer	3.4495868677199386e-10	Officer	0.14925861098285687
Sailor	3.4495868677199386e-10	Sailor	0.14925861098285687
First Messenger	3.4495868677199386e-10	First Messenger	0.14925861098285687
Second Messenger	3.4495868677199386e-10	Second Messenger	0.14925861098285687
Herald	3.4495868677199386e-10	Herald	0.14925861098285687
Musician	3.4495868677199386e-10	Musician	0.14925861098285687