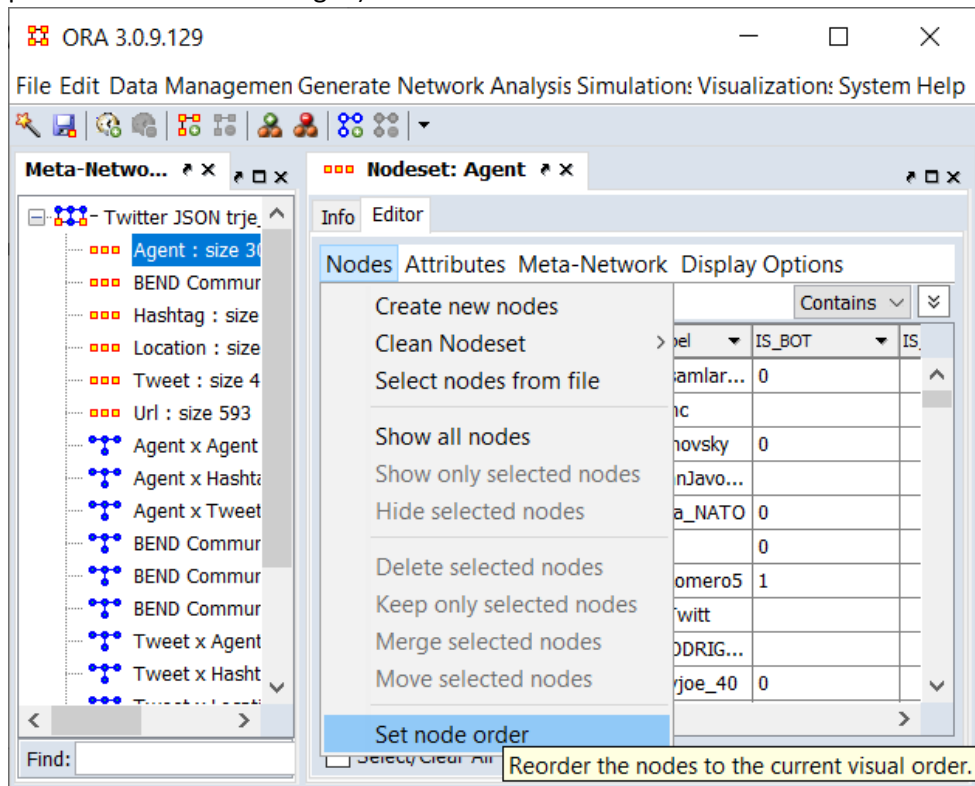


January 2022 – ORA-PRO v3.0.9.135

1. Additional big data techniques for visualizer
2. Improved data import speed
3. Improved Reddit & Instagram importer
4. Cascade calculation
5. Improvements to the Near Term Analysis dialog
6. Twitter API version 2 importer now allows the user to provide separate files of inputs, for example, one file each for Users, Tweets, and Places. The importer will auto-detect the format and combine them upon import. This should also cover the R Academic Twitter R format data.
7. Agent Coordination has been added to the Twitter Report
 - a. A new analysis page has been added
 - b. The Agent x Agent – Coordination can be returned into the input meta-network
8. Added Nodeset Editor feature: user can do the following: sort the nodes alphabetically by Node ID (or sort however) and then click the menu option below to make this the new (and permanent until it is changed) order of the nodes:



9. Nodeset Editor improvements:
 - a. Searching nodes is now done in parallel and 2-3x faster.
 - b. Generalized searching now exists. For example, the user can now enter boolean expressions with arbitrary nesting and expressions:

Nodeset: agent

Info Editor

Nodes Attributes Meta-Network Display Options

Search: `((("US resident" = no) & ("salary ($k)" < 60)) | ("Years experience" > 20))` Contains

	Node ID	Node Label	Note	Salary (\$k)	US Resident	Years Experi...
<input type="checkbox"/>	EE5	Business Ana...		50	No	5
<input type="checkbox"/>	Spvr3	Data Architect		90	No	25

10. Added a new Attribute transform that supports the user in creating attributes by concatenation. The user can now use the concatenate transform on the existing Stance and Bot attributes, with output values shown below.

- a. In editor create new attribute for agents – this has 4 values
 - i. Pro stance and bot
 - ii. Anti stance and bot
 - iii. Pro stance and not bot
 - iv. Anti stance and not bot

Transform Node Attributes

Concatenate String Rules Algebra Rules Recode - Single Recode - Dual

Select the attributes to combine:

Search: And

☐ Bot Stance

☒ IS_BOT

☒ Stance

Attribute delimiter: , ☐ Include empty attributes as value ☐

☒ Include attribute IDs

Output attribute:

Existing attribute Bot Stance

OK Cancel

11. BEND

- b. Improved BEND metrics – taking in to account moral values & keywords provided by NetMapper
- c. Created a comparison mode for BEND – which enables comparison of documents, agents, and communities

12. Stance detector

- d. Can now take any of these as possible seeds for pro and anti-stance: hashtags, urls, single words in document

13. Added tooltips to column headers in the report HTML

14. Upgraded near term analysis:

- e. Revised interface
- f. Faster more accurate simulator underneath

15. Updated online integrated help

16. Ability to scale/color/whatever nodes using Mean and Std Deviation is now available
17. Miscellaneous bug fixes