

GraphEditor Introduction

Phuse EU Connect 2018

User interface – Start view

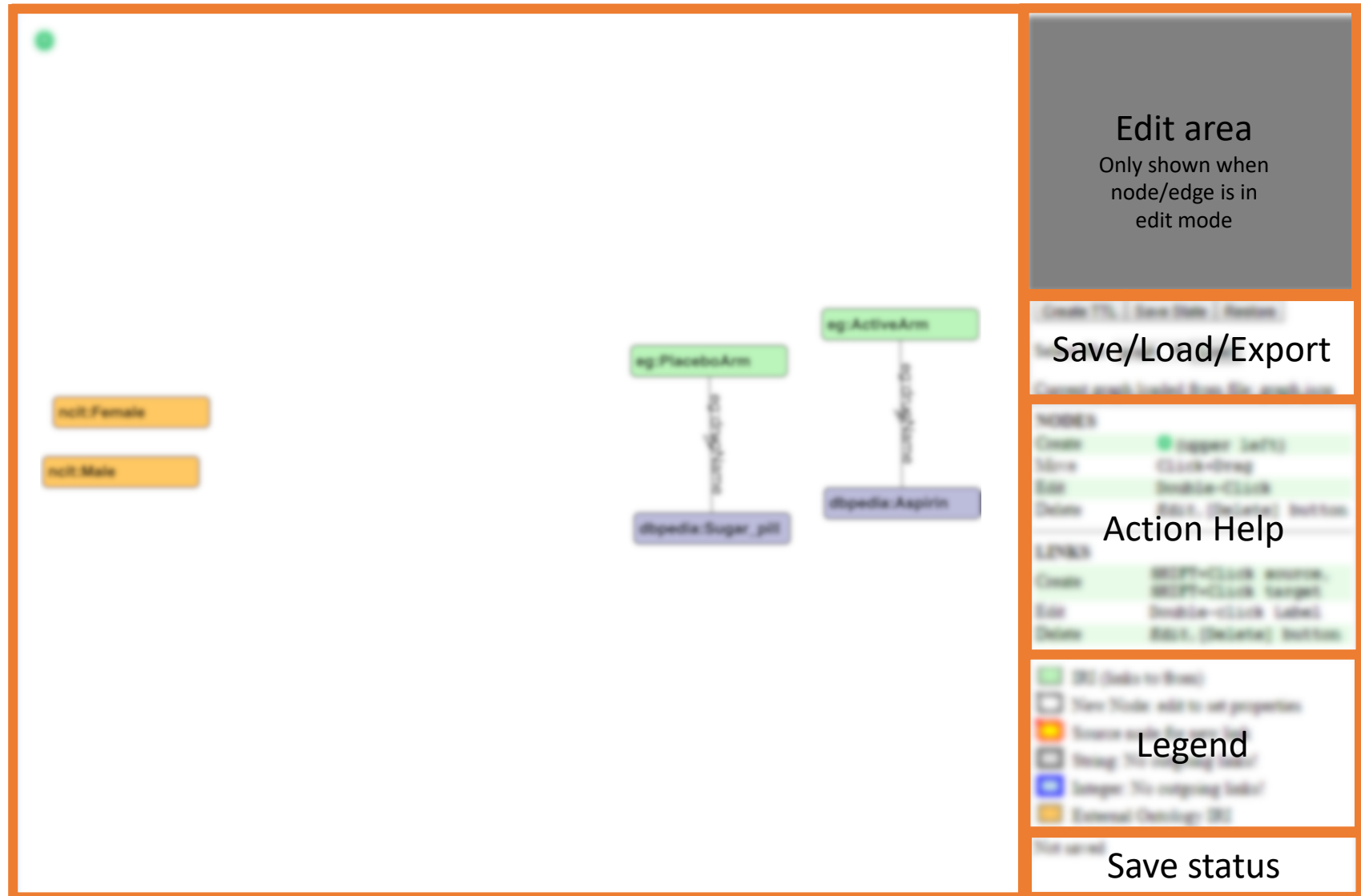
The screenshot displays a graph editor interface. The main workspace contains a graph with the following nodes and links:

- Nodes: `ncit:Female`, `ncit:Male` (orange boxes); `eg:PlaceboArm`, `eg:ActiveArm` (green boxes); `dbpedia:Aspirin`, `dbpedia:Sugar_pill` (purple boxes).
- Links: `eg:PlaceboArm` to `dbpedia:Sugar_pill` (labeled `eg:drugName`); `eg:ActiveArm` to `dbpedia:Aspirin` (labeled `eg:drugName`).

The sidebar on the right contains the following controls and information:

- Buttons: `Create TTL`, `Save State`, `Restore`.
- Select file: `graph` (dropdown), `Load` (button).
- Current graph loaded from file: (empty text field).
- NODES**
 - Create: `+` (upper left)
 - Move: `Click+Drag`
 - Edit: `Double-Click`
 - Delete: `Edit, [Delete] button`
- LINKS**
 - Create: `SHIFT+Click source, SHIFT+Click target`
 - Edit: `Double-click Label`
 - Delete: `Edit, [Delete] button`
- Legend:
 - `□` IRI (links to/from)
 - `⋮` New Node: edit to set properties
 - `⚙` Editing node
 - `□` Source node for new link
 - `□` String: No outgoing links!
 - `□` Integer: No outgoing links!
 - `□` External Ontology IRI
- Status: `Not saved`

User interface – Start view

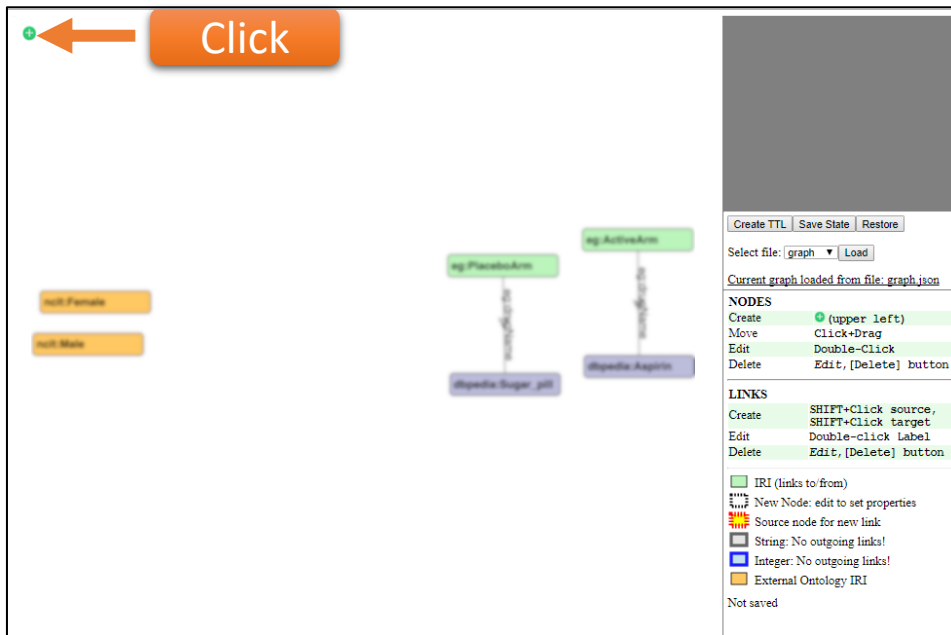


Functions

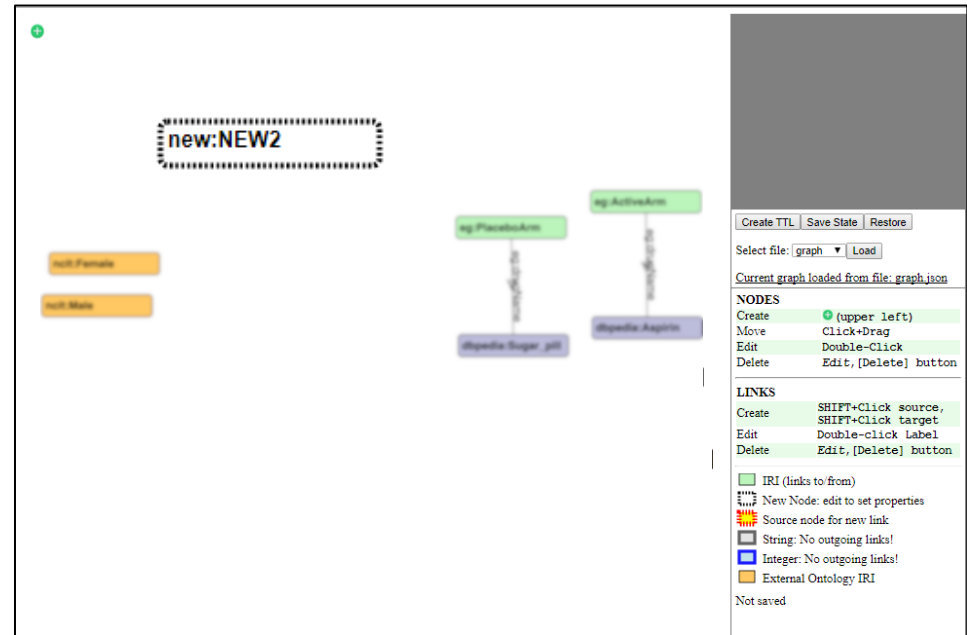
- Nodes
 - [Add node](#)
 - [Edit node](#)
 - [Delete node](#)
- Links
 - [Create link](#)
 - [Edit link](#)
 - [Reverse link direction](#)
- [Save/Load/Export the graph](#)
 - Save as file (JSON and TTL)
 - Save current state
 - Restore
 - Load pre-configured graph

Add node

1. Click  in upper left corner

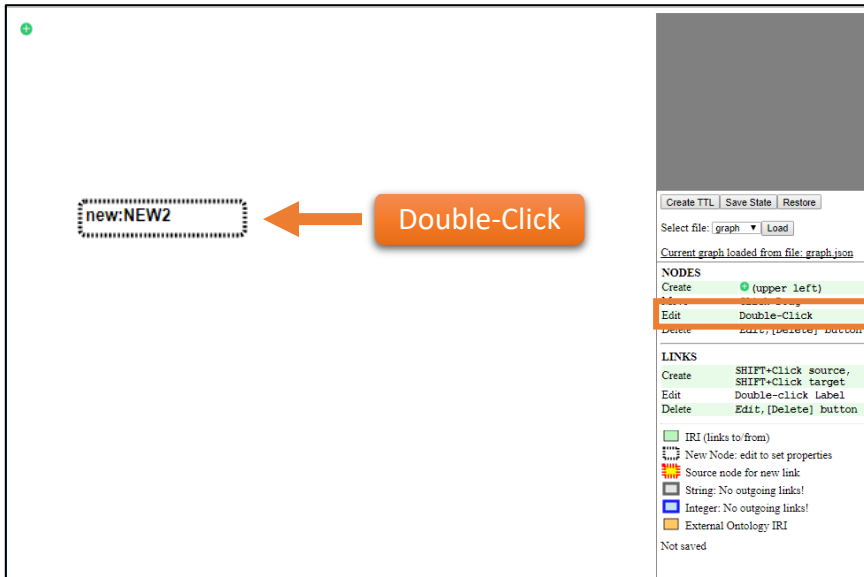


2. A new node is created on the whiteboard

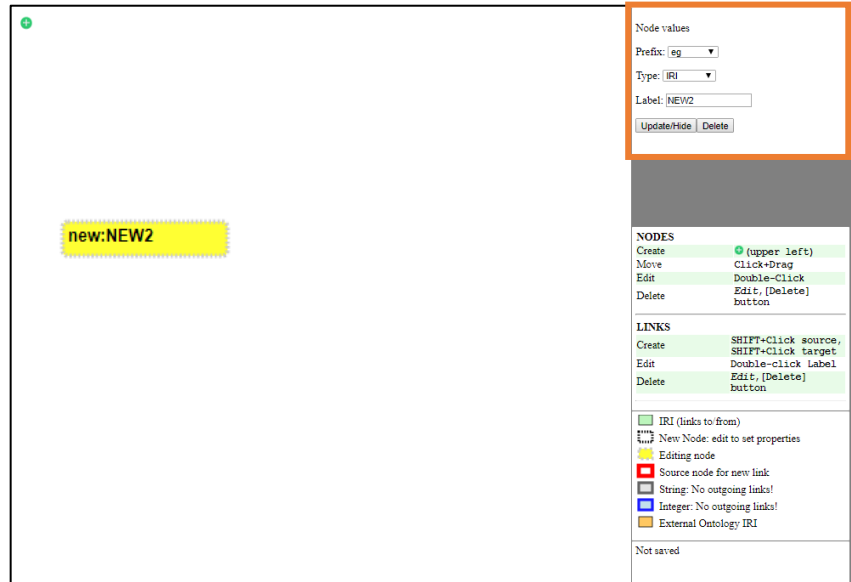


Edit node

1. Double click a node to get into edit mode



2. Node is highlighted and the edit area is displayed



3. In edit area:

- Select *Type*
- Select *Prefix*
- Type in *Label*

Node values

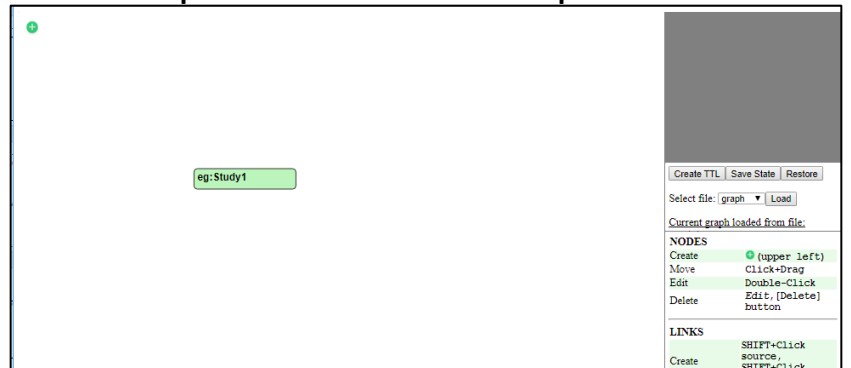
Type:

Prefix:

Label:

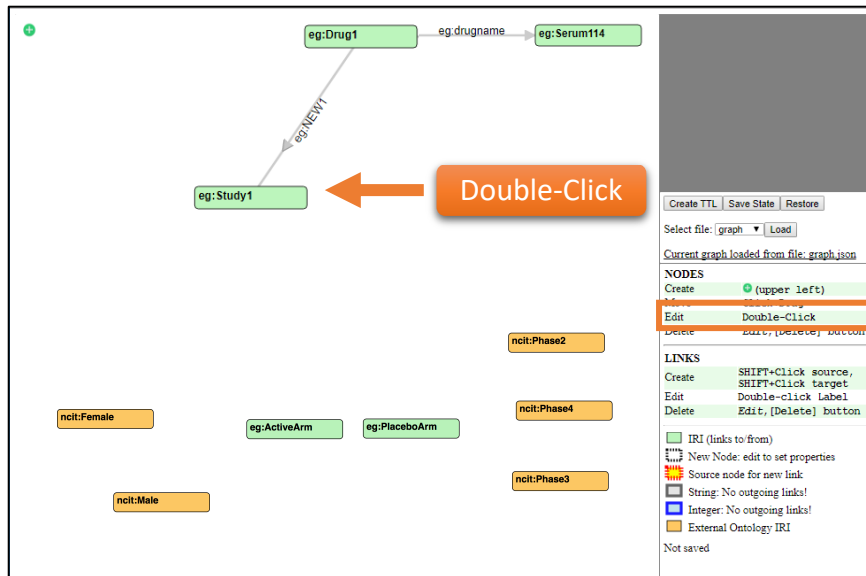
Click *Update/Hide* to save changes

4. Node prefix and label is updated

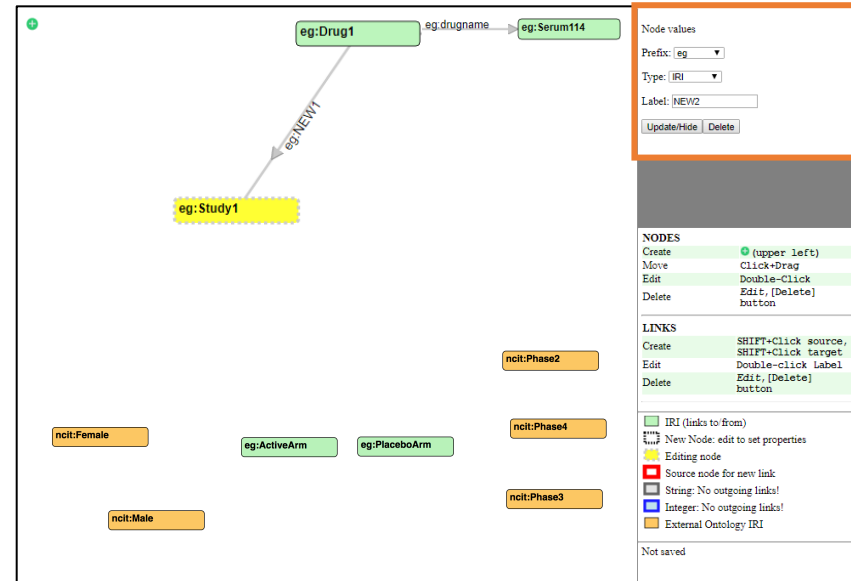


Delete node

1. Double click a node to get into edit mode



2. Node is highlighted and the edit area is displayed



3. Click *Delete*

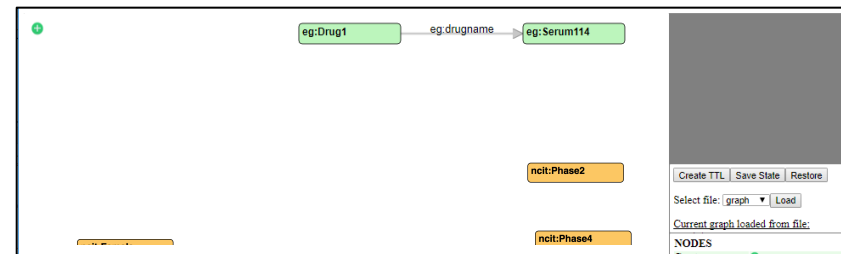
Node values

Type:

Prefix:

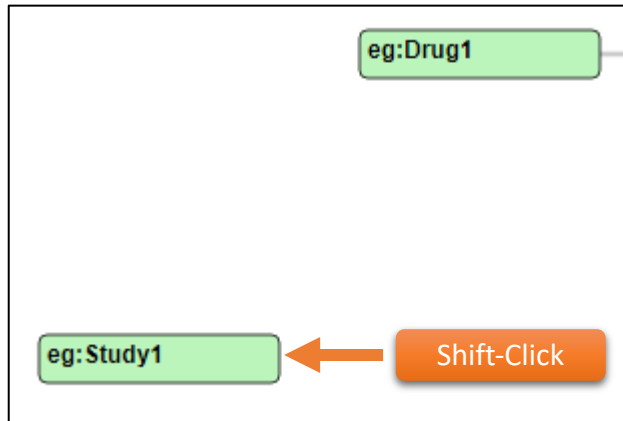
Label:

3. The node and any attached links are removed

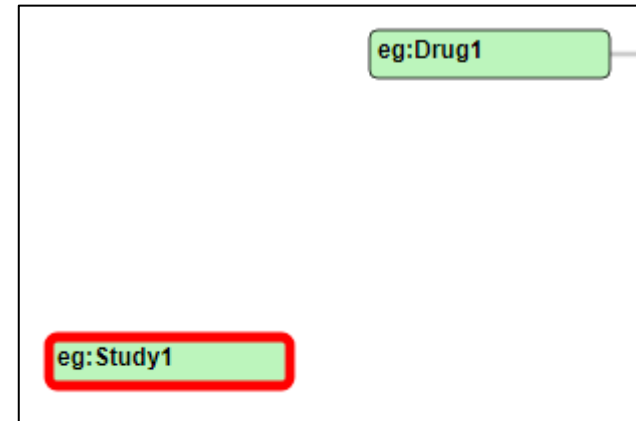


Create link

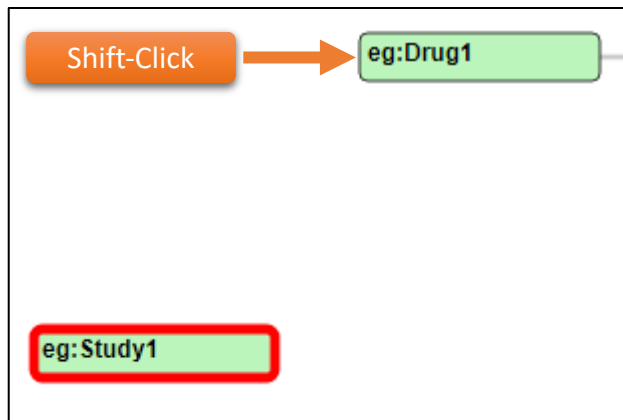
1. Shift+click a node to select it as source of link



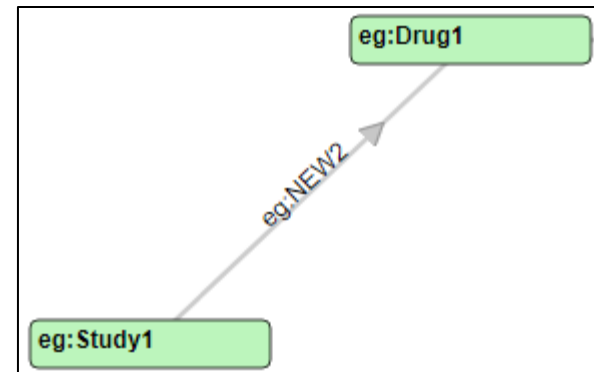
2. Node is highlighted



3. Shift click the target link

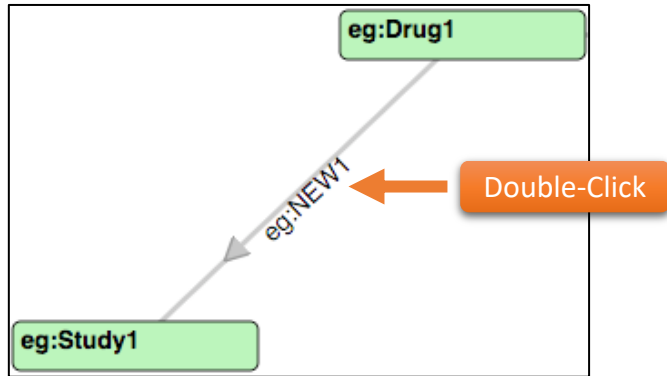


4. A new link is created

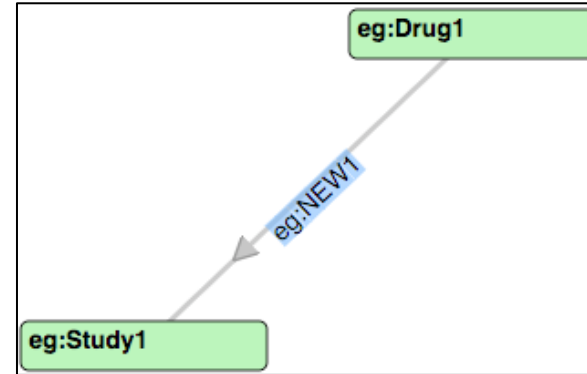


Edit link

1. Double click a link to get into edit mode



2. Edge label is highlighted and the edit area is displayed



3. In edit area:

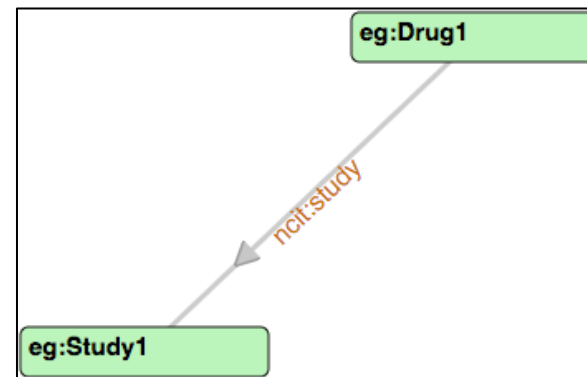
- Select a *Predicate* in the dropdown list

Link values

Predicate:

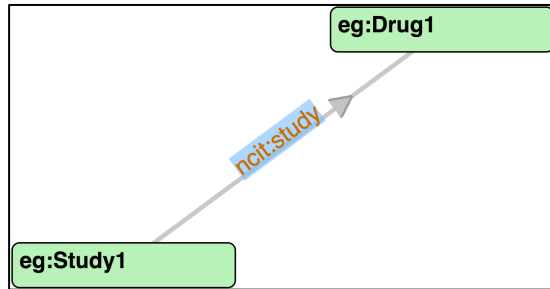
Click *Update/Hide* to save changes

4. Node predicate is updated



Edit link – reverse link direction

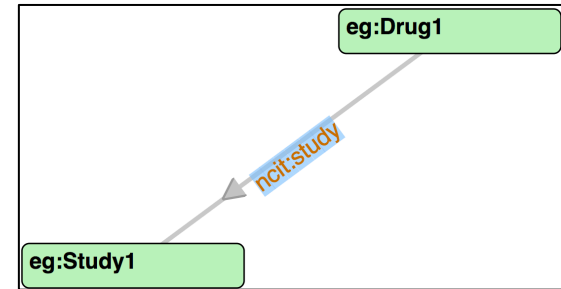
1. If a link is between two IRI's, the direction can be reversed



Wrong: *Study1* has study *Drug1*

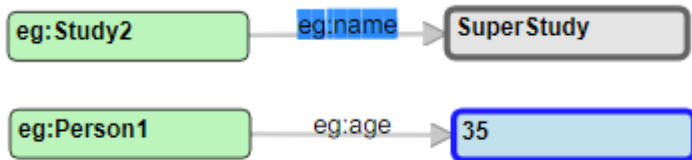
Link values

Predicate:



Correct: *Drug1* has study *Study1*

2. Links between an IRI node and String/Integer node cannot be reversed



Link values

Predicate:

Save/Load/Export the graph

The screenshot shows a graph editor interface. At the top, there are three buttons: 'Create TTL', 'Save State', and 'Restore'. Below these is a 'Select file:' dropdown menu with 'graph' selected and a 'Load' button. A text label 'Current graph based on last save state' has an arrow pointing to the 'graph' dropdown. The main area is divided into 'NODES' and 'LINKS' sections. The 'NODES' section lists actions: 'Create' (green circle, upper left), 'Move' (Click+Drag), 'Edit' (Double-Click), and 'Delete' (Edit, [Delete] button). The 'LINKS' section lists actions: 'Create' (SHIFT+Click source, SHIFT+Click target) and 'Edit' (Double-click Label). Below these are several colored squares with labels: a green square for 'IRI (links to from)', a grey square for 'New Node: edit to set properties', a yellow square for 'Editing node', a red square for 'Source node for new link', a grey square for 'String: No outgoing links!', a blue square for 'Integer: No outgoing links!', and an orange square for 'External Ontology IRI'. At the bottom, a status bar says 'Not saved'. An arrow points from the 'Not saved' text to the 'Save State' button.

Create TTL Save State Restore

Select file: graph Load

Current graph based on last save state

NODES

Create (upper left)

Move Click+Drag

Edit Double-Click

Delete Edit, [Delete] button

LINKS

Create SHIFT+Click source, SHIFT+Click target

Edit Double-click Label

IRI (links to from)

New Node: edit to set properties

Editing node

Source node for new link

String: No outgoing links!

Integer: No outgoing links!

External Ontology IRI

Not saved

Create TTL

Saves the current graph as JSON and TTL files to the download directory

Save State

Saves the current graph to the web browsers local memory. It retains in memory until *Save state* is clicked again.

Restore

Restores the graph from the last saved state

Select file: graph Load

Loads the selected graph from pre-configured graphs

Indicates the source of the current graph

Indicates when the graph was last saved with *Save state*