

GraphEditor Introduction

PhUSE CSS 2019

User interface – Start view

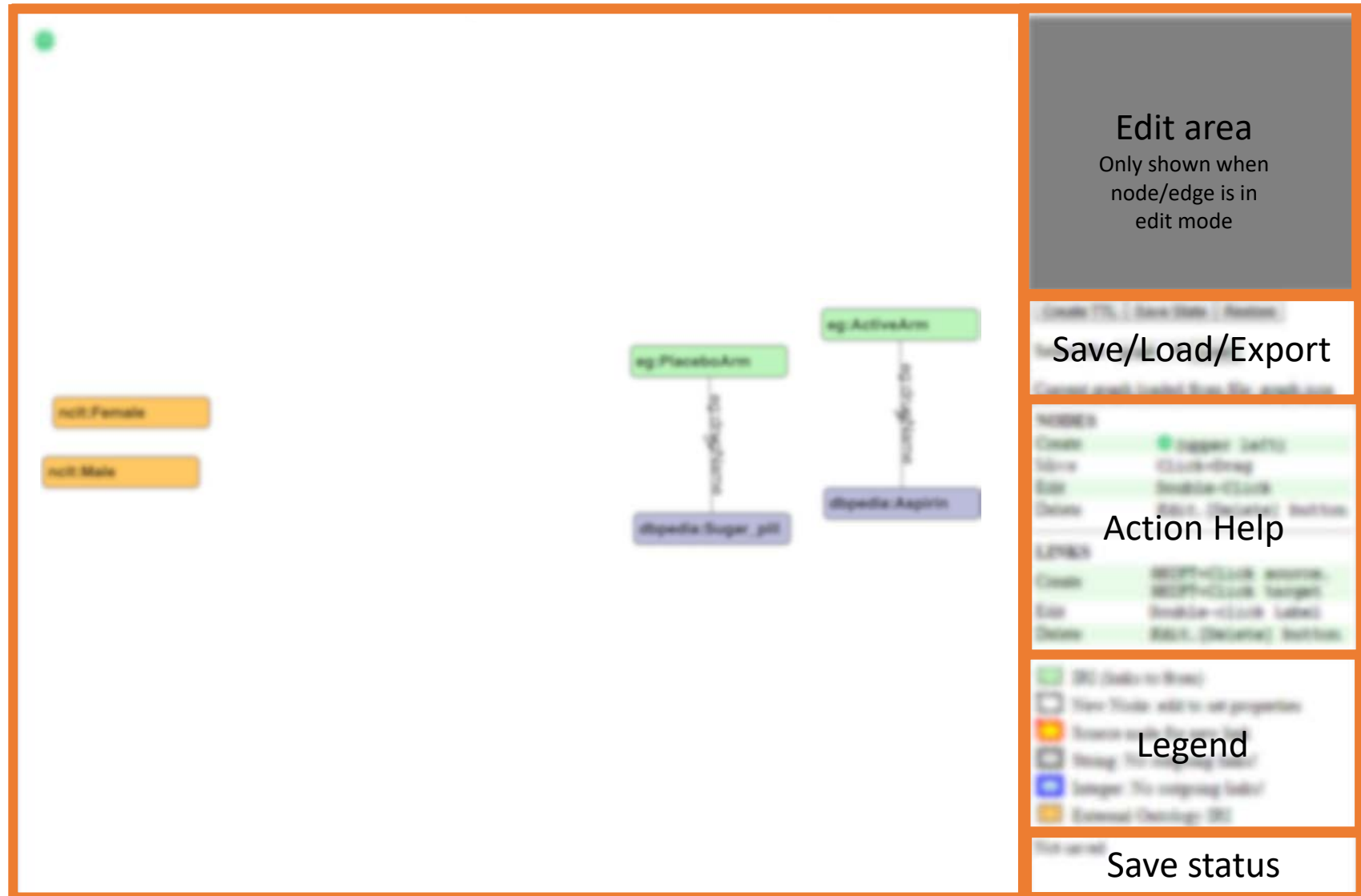
The screenshot displays a graph editor interface. The main workspace contains a graph with the following nodes and links:

- 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:
- 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

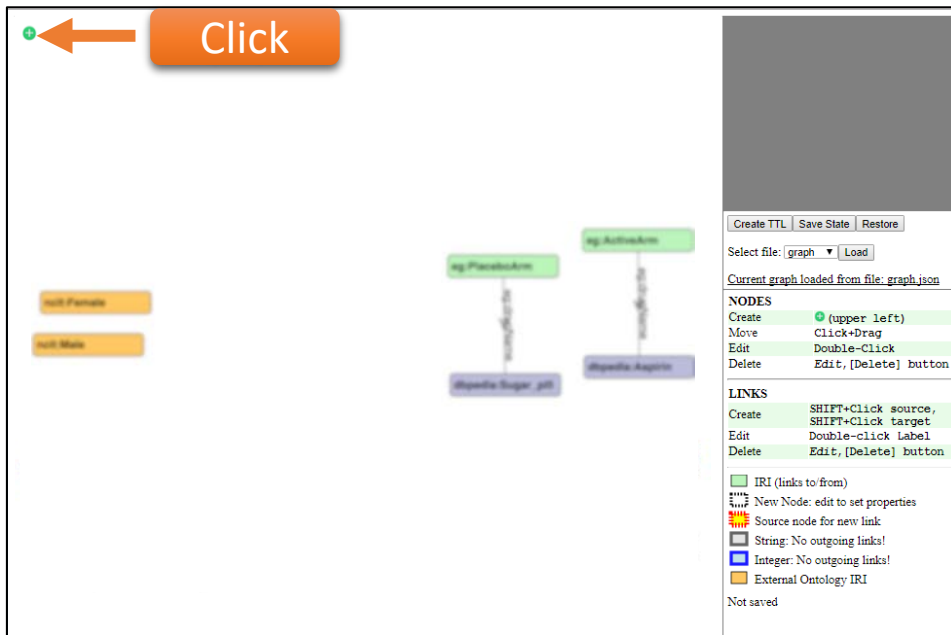


Functions

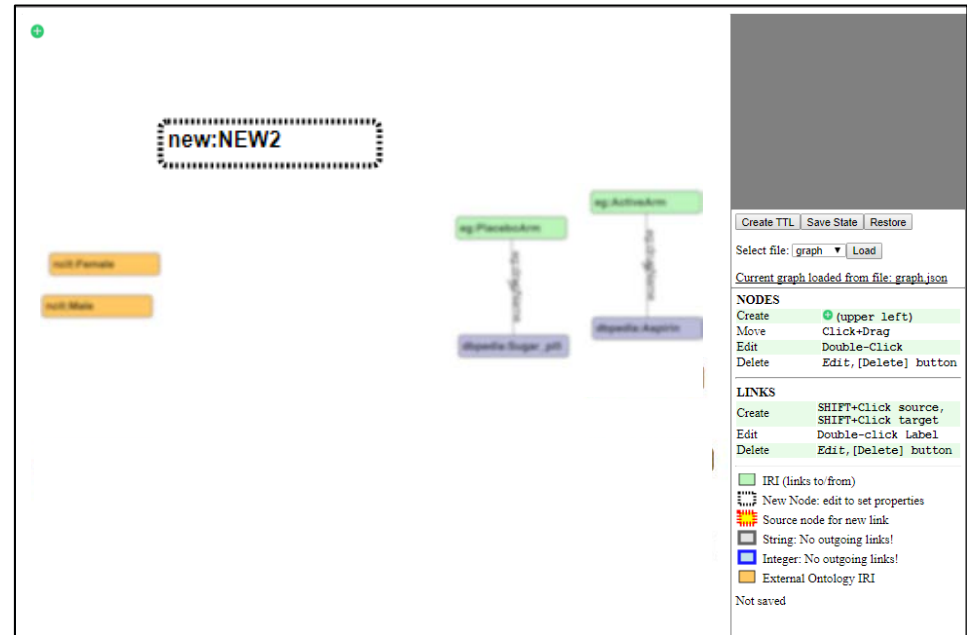
- Nodes
 - Add node
 - Edit node
 - Delete node
- Links
 - Create link
 - Edit link
 - Reverse link direction
- Save/Load/Export the graph
 - Save as file (JSON and TTL)
 - Save current state
 - Restore
 - Load pre-configured graph

Add node

1. Click  in upper left corner

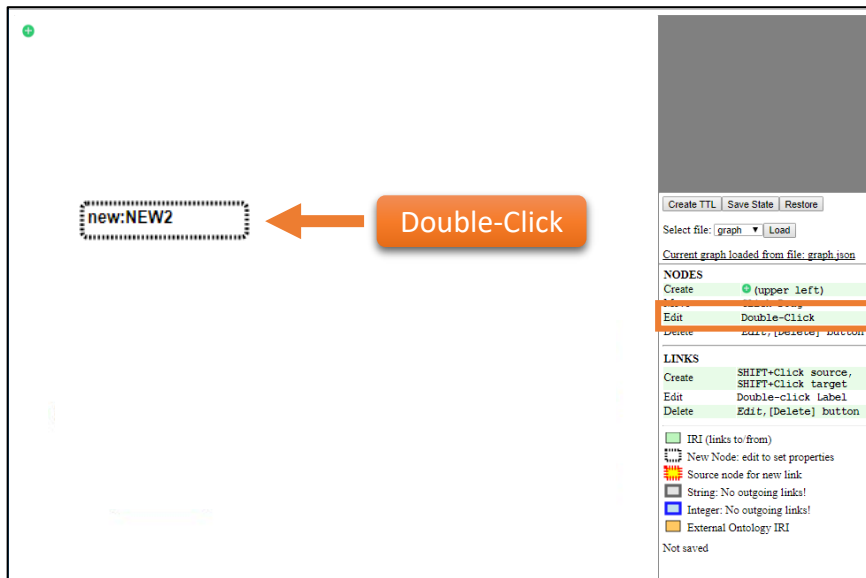


2. A new node is created on the whiteboard

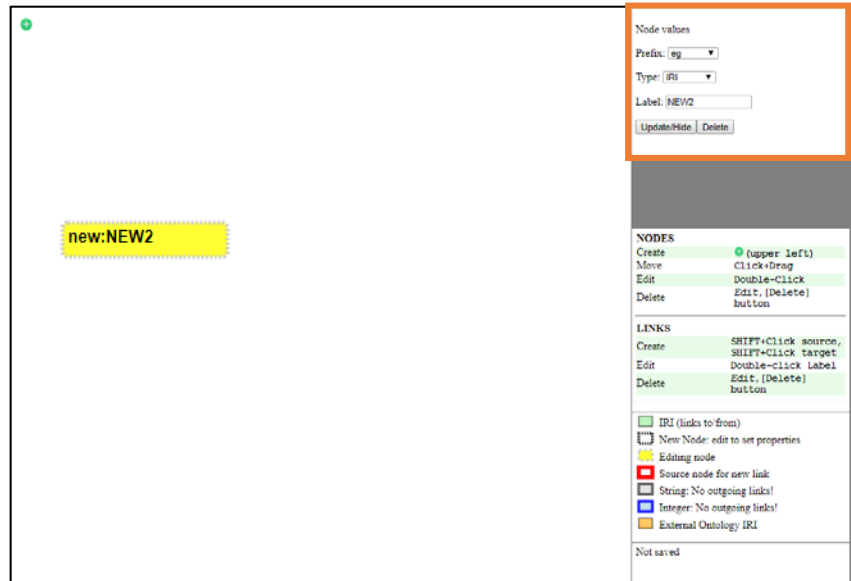


Edit node

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

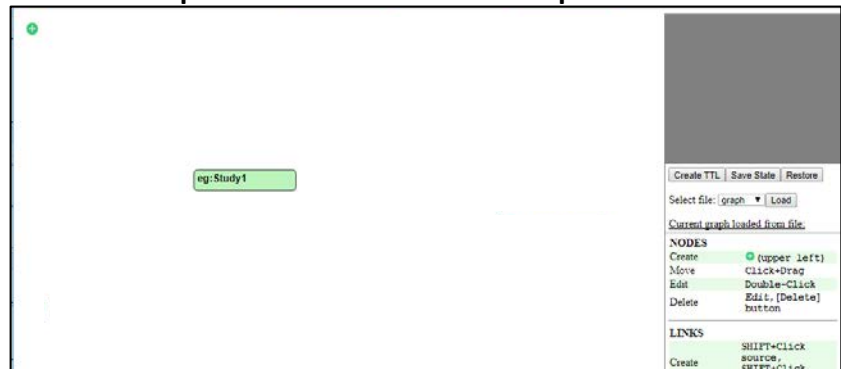
Type:

Prefix:

Label:

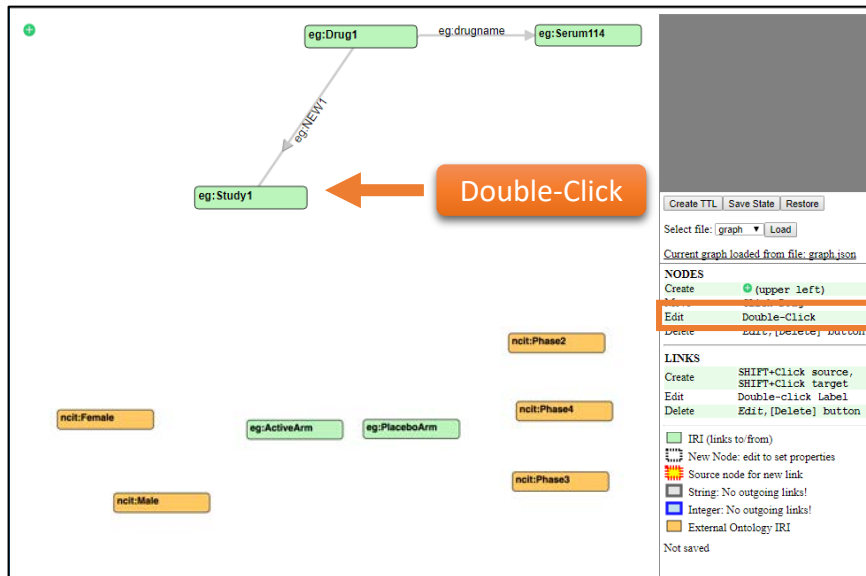
Click *Update/Hide* to save changes

4. Node prefix and label is updated

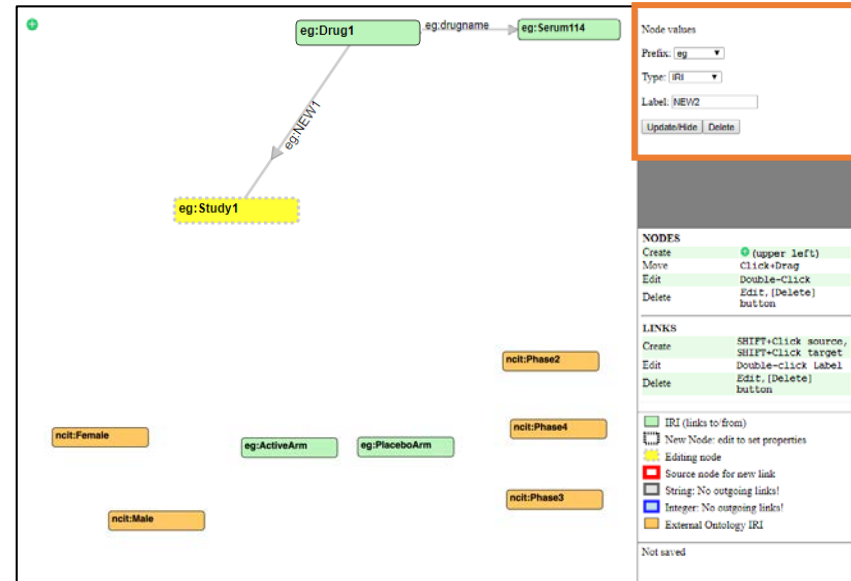


Delete node

1. Double click a node to get into edit mode



2. Node is highlighted and the edit area is displayed



3. Click *Delete*

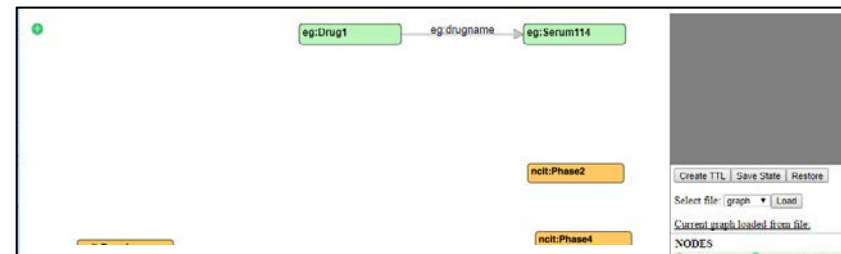
Node values

Type:

Prefix:

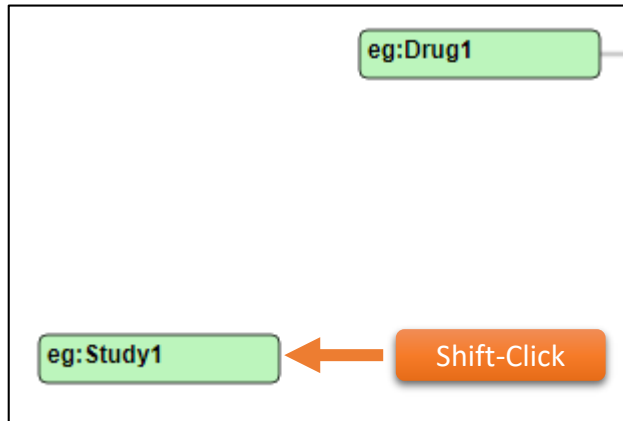
Label:

3. The node and any attached links are removed

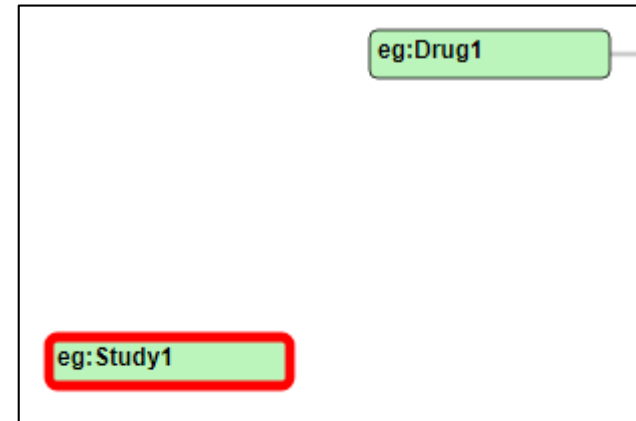


Create link

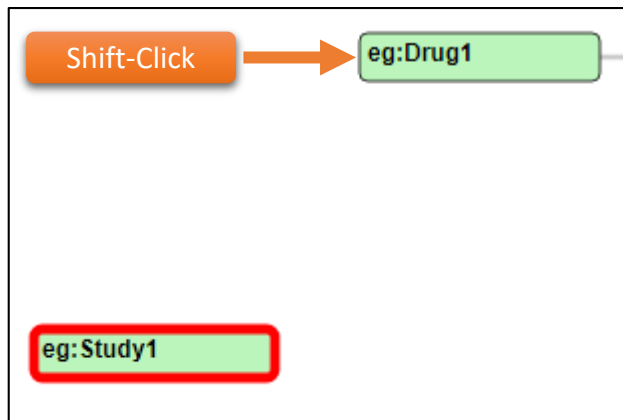
1. Shift+click a node to select it as source of link



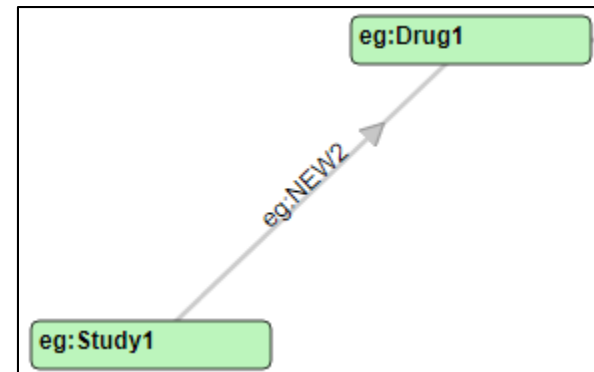
2. Node is highlighted



3. Shift click the target link

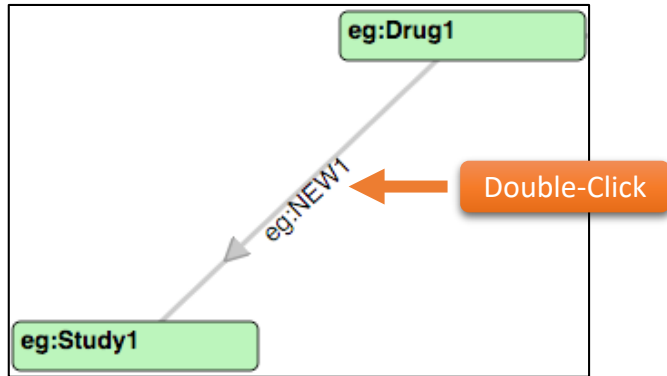


4. A new link is created

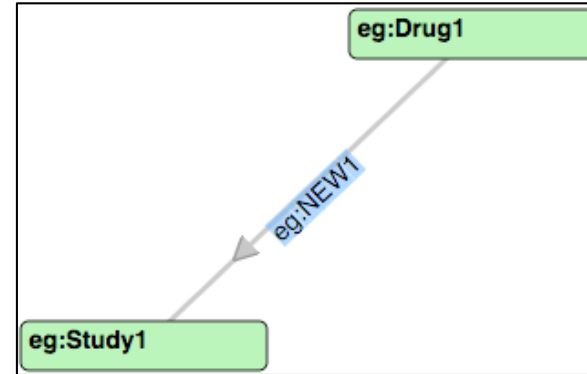


Edit link

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:

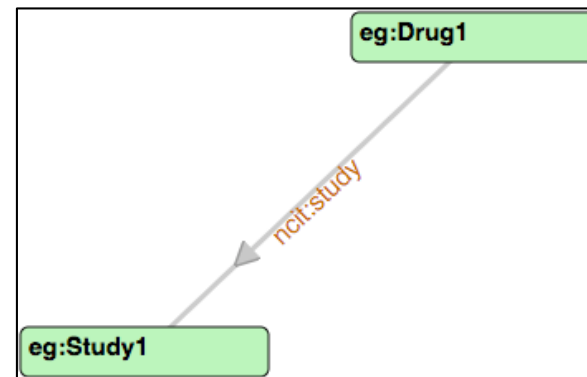
- Select a *Predicate* in the dropdown list

Link values

Predicate:

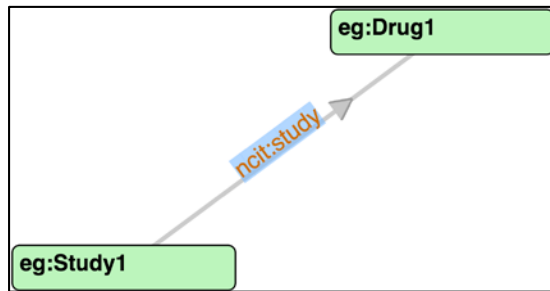
Click *Update/Hide* to save changes

4. Node predicate is updated



Edit link – reverse link direction

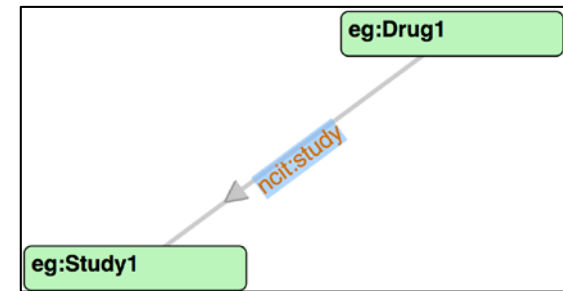
1. If a link is between two IRI's, the direction can be reversed



Wrong: *Study1* has study *Drug1*

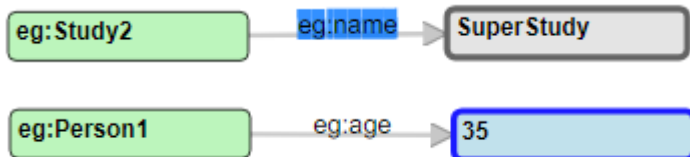
Link values

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



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*