

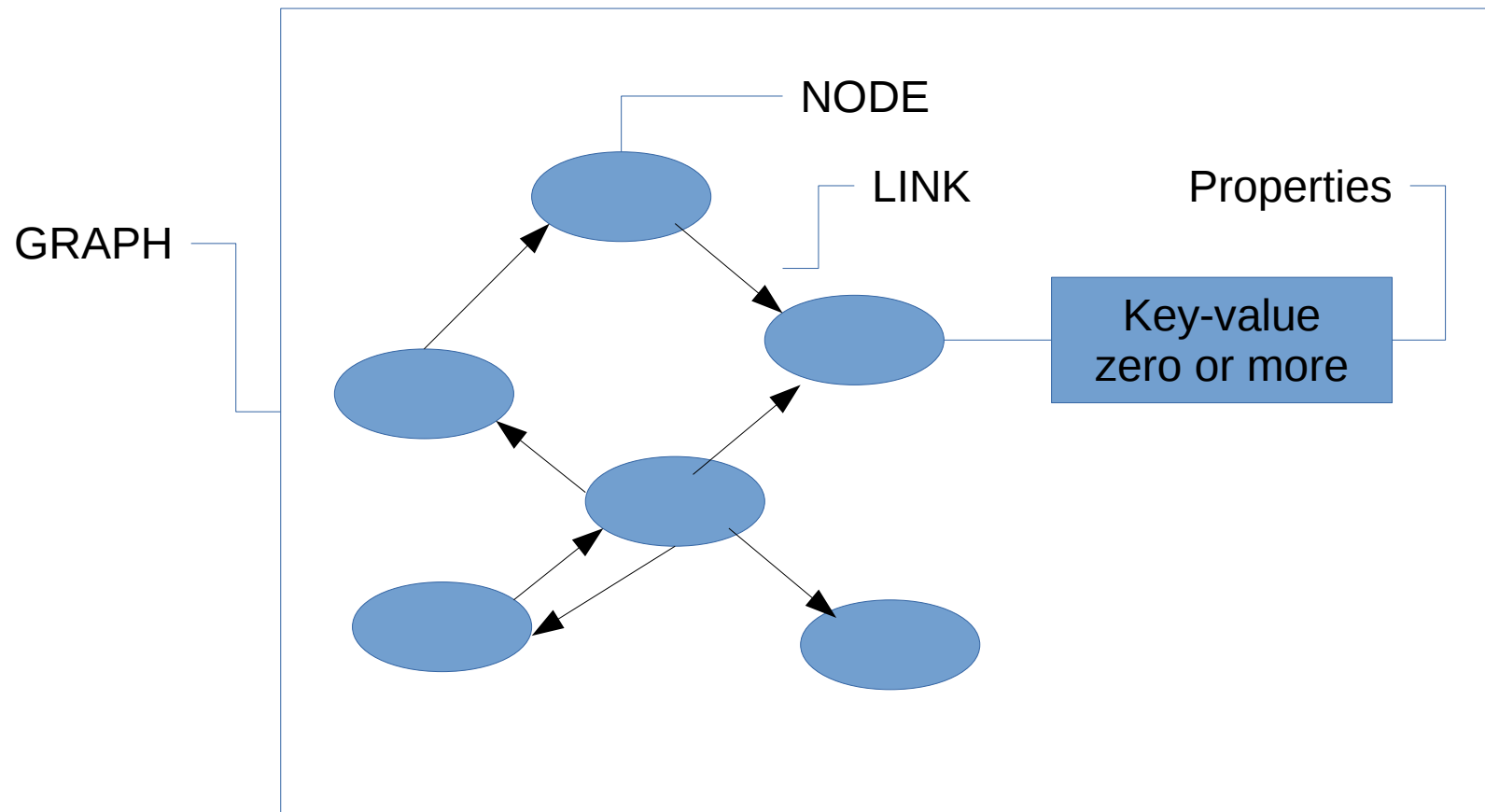
ShiVa module

polyglot-visualnode

manual

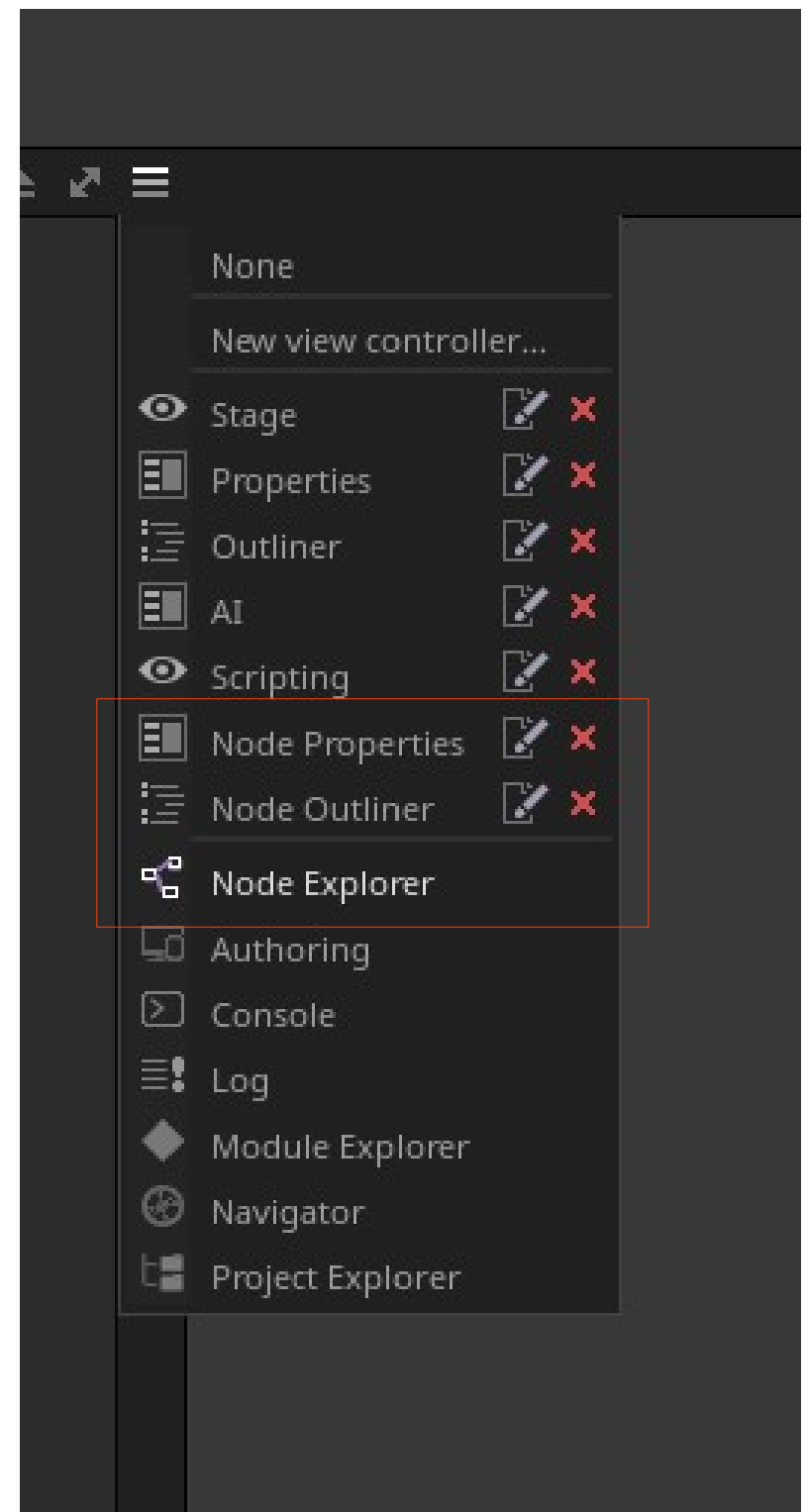
The purpose of this module is data oriented editing as a property-node graph. By traversing this graph with logic you have the ability to (re-) generate things, like ShiVa-resources for example.

The design of the module adds the possibility to extend it with specific packages to add custom views/handling of nodes, which allows for specific higher level editing.



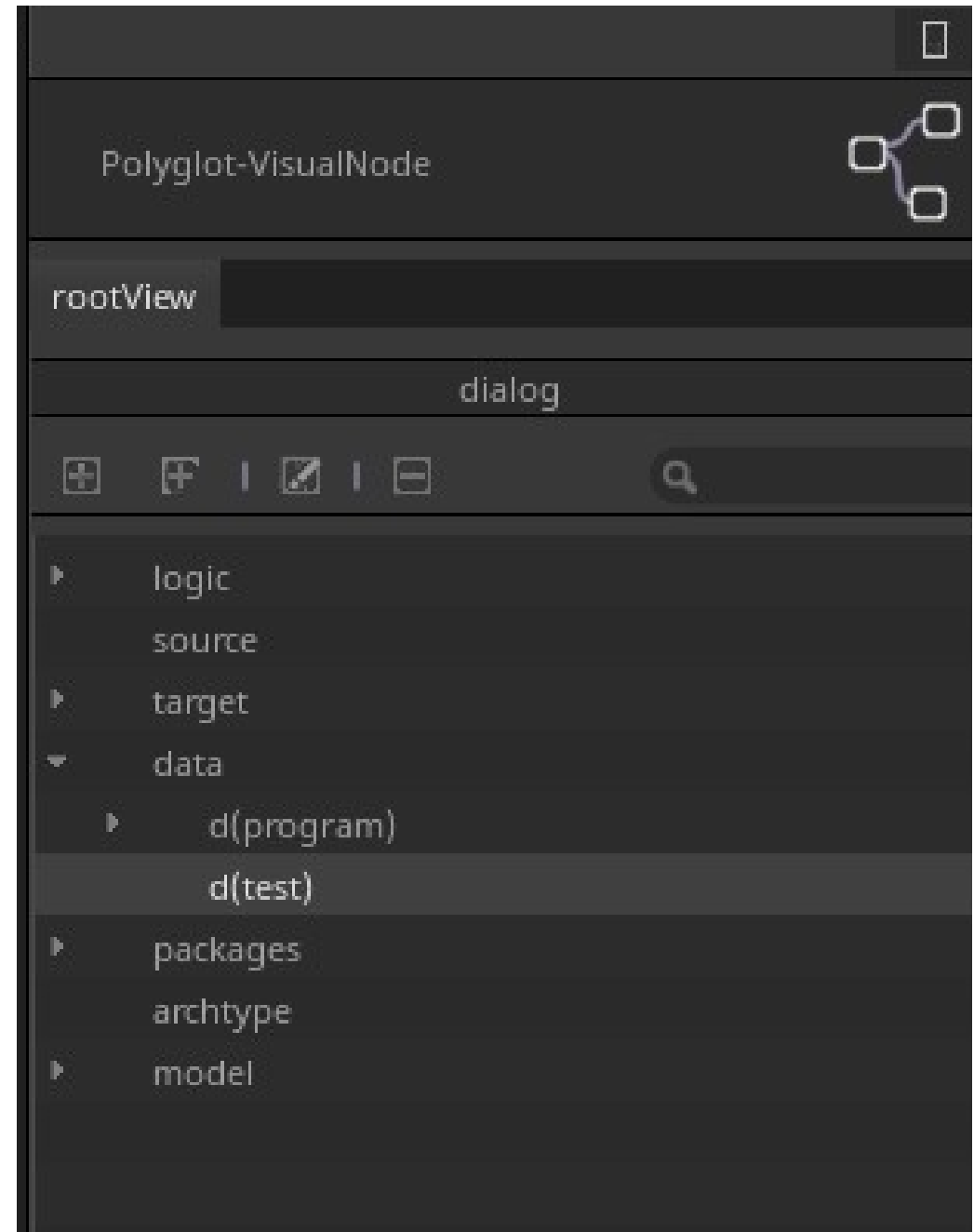
# Views

- Node Explorer
- Node Properties
- Node Outliner
- Stage



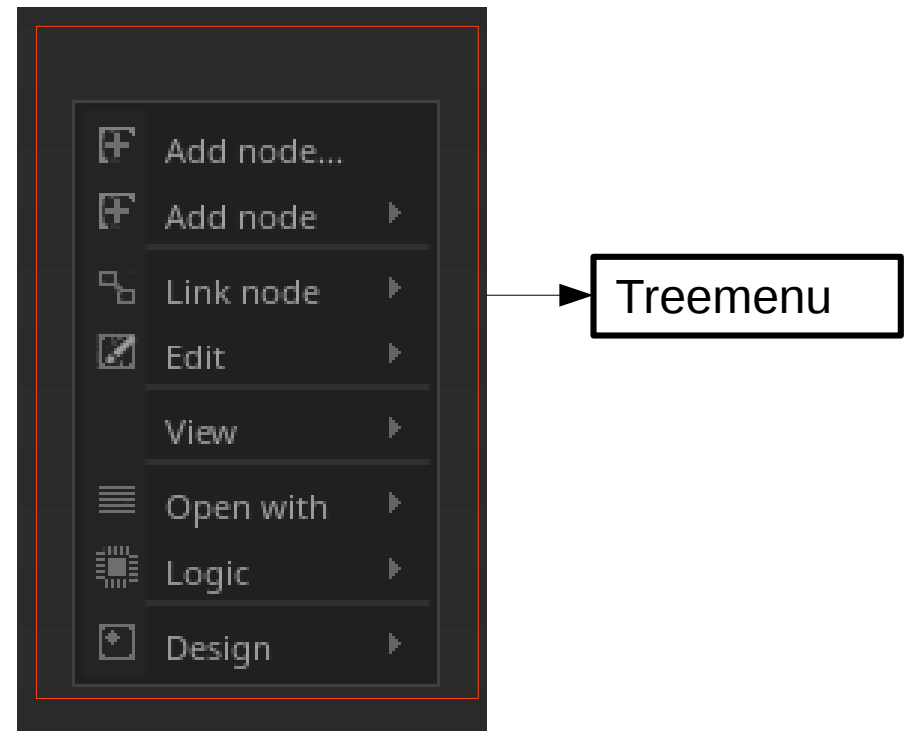
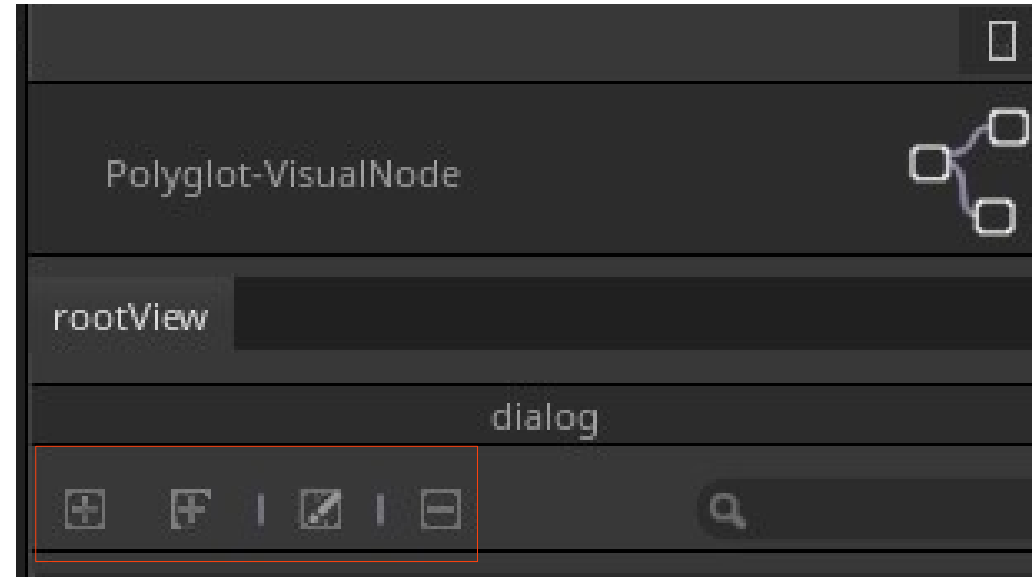
# Node Explorer Tree

- Logic
  - Lua scripts
    - traversing nodes tree/linked
- Source
  - Definition of node types
- Target
  - Generated output
- Data
  - Storage for nodes
- Packages
  - VisualNode extensions
- Archtype
  - Bundle (of nodes, ..?)
- Model
  - Definition of nodes



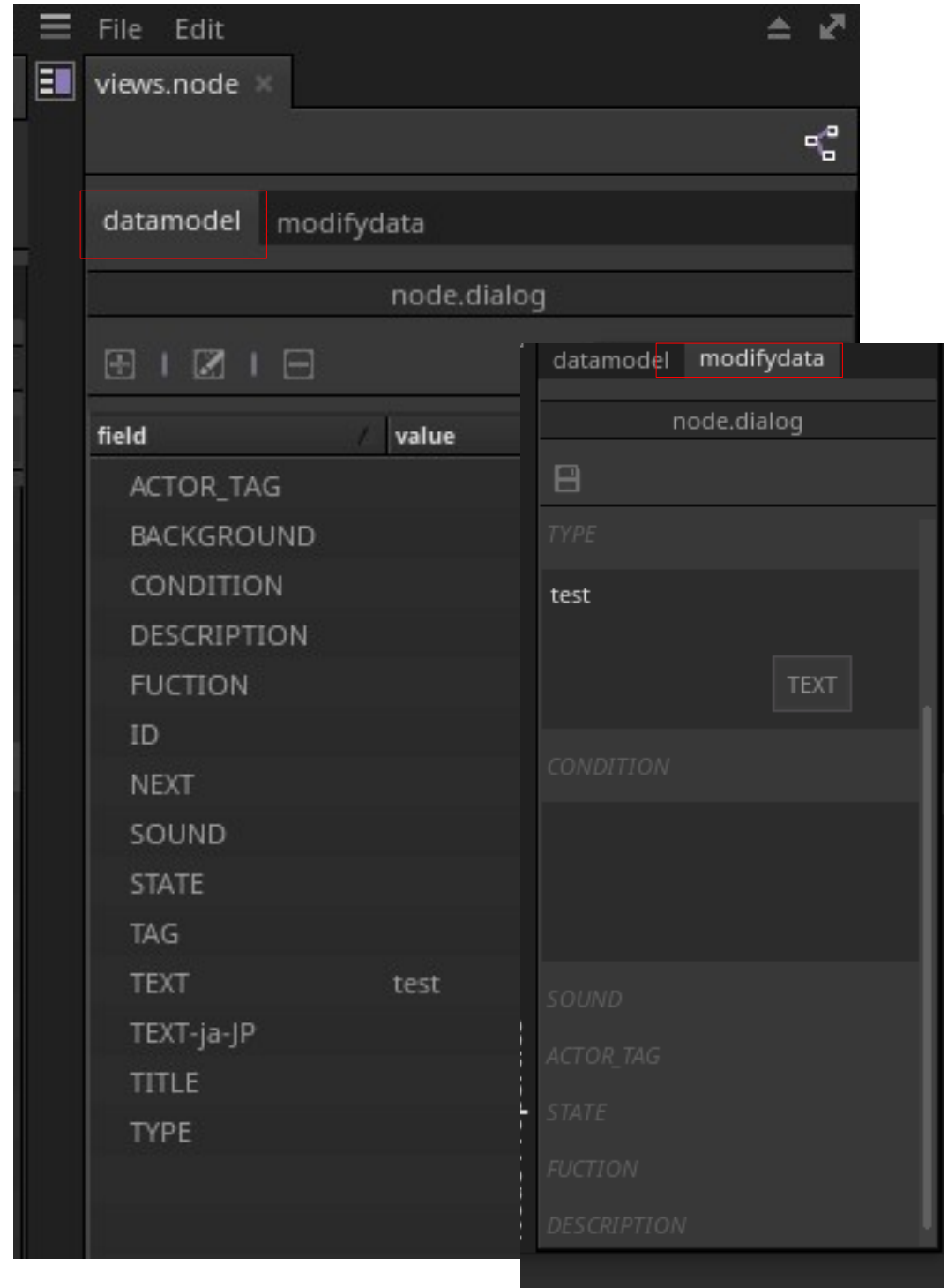
# Node Explorer Actions

- Add node
  - As sibling/child
  - Plus treeitem
- Link node
  - Between 2 selected nodes
- Copy & Paste Node
- Rename node
  - treeitem rename
- Delete treeitem
- Design
  - Node /Filter
  - Script /Export
- Package
  - (De)-Activated
- Logic
  - Run created lua scripts



# Node Properties

- type node is
  - e.g “node.dialog”
- datamodel
  - Key value pairs
    - Create
    - Edit
    - Delete
- modifydata
  - Edit values



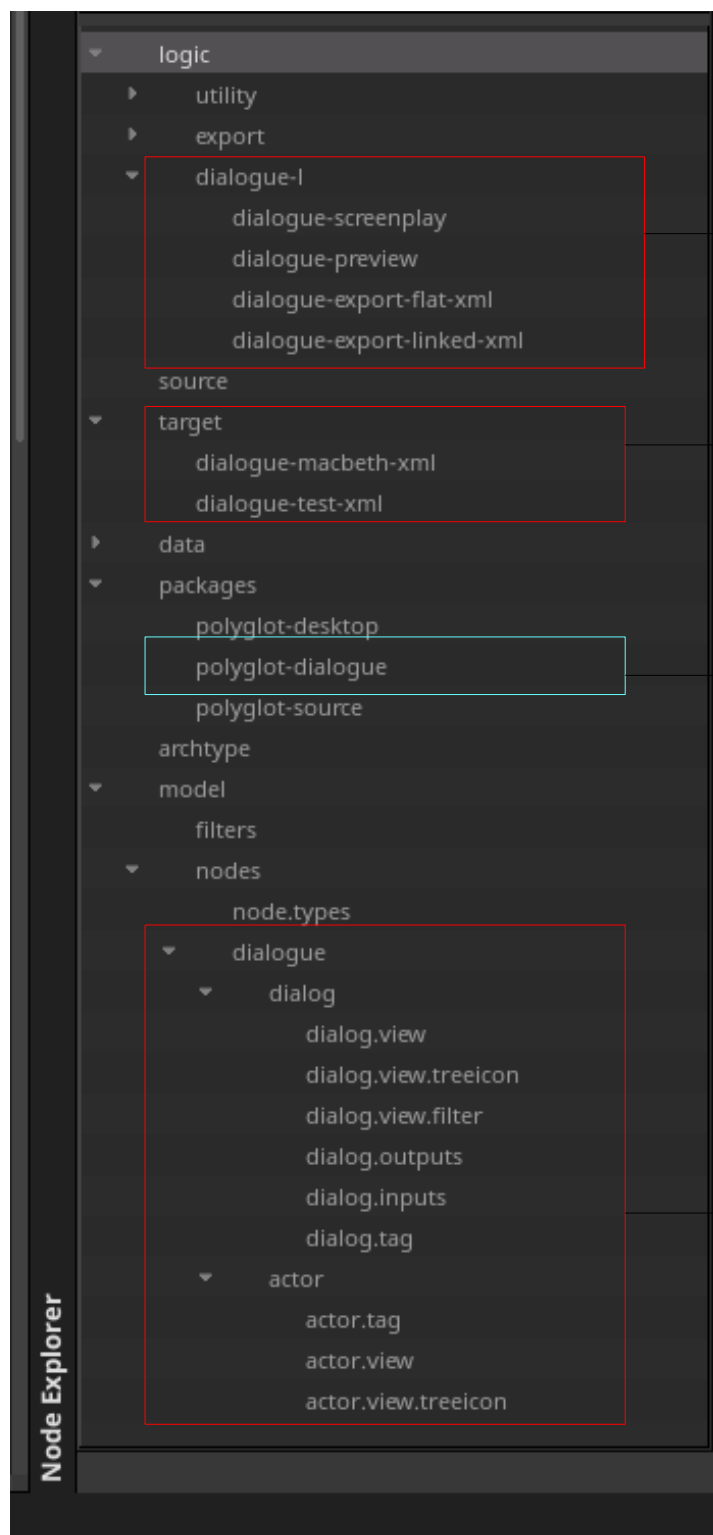
ShiVa module

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Package Dialogue  
(early stage)



# Package Dialogue



Logic To  
Export to xml  
Preview export

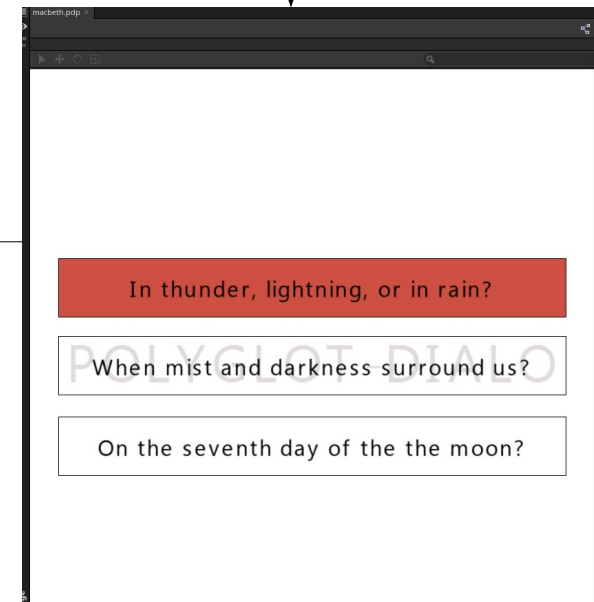
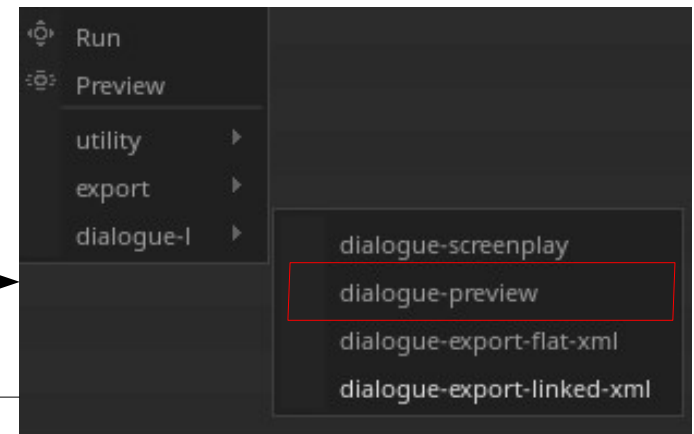
Exported data

Treemenu

this  
package

Stage "Preview"  
".pdp extension"

Node definitions



ShiVa module

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Technical 'lua impl.'

# Node

- Storage lua table in file
  - Node-definitions: have unique path -filename
  - Nodes: have content generated-id, same-content == same-id and generated-id == filename. no path
- Type def
  - Dot separated string: 'node["x.y.z"]'
- Content
  - Key value pairs
- Content extended functionality
  - key value pairs
    - e.g. ".link" - <uid> to link 2 nodes

```
node["dialog"] =  
{  
  ["TITLE"] =  
    ""  
  
  ,  
  ["NEXT"] =  
    ""  
  
  ,  
  ["DESCRIPTION"] =  
    ""  
  
  ,  
  ["TEXT"] =  
    "program"  
  
  ,  
}
```

# Node Api

- *addNode*

**snodeld = function CLP\_Node.AddNode( self, sNodename, tNode, sNodeld, sRelativePath )**

- *getNode*

**snodeld = function CLP\_Node.GetNode( self, sNodeld, sRelativePath )**

- *getDifferenceFrom*

**tKeyFields = CLP\_Node.getDifferenceFrom(self, sNodeBaseFields, sOtherNodeFields)**

- *isGenNode*

**bGenNode = function CLP\_Node.isGenNode( self, sNodeld, sNodename, tNodeData )**

- Not yet implemented

**function CLP\_Node.intersection( self, sNodeld, sOtherNodeld )**

**function CLP\_Node.complement( self, sNodeld, sOtherNodeld )**

**function CLP\_Node.union( self, sNodeld, sOtherNodeld, kOptions )**

**function CLP\_Node.difference( self, sNodeld, sOtherNodeld )**

# Node Traverse Api

- *walk( hTreeRoot, call, isRoot ) --tree*
  - *You walk the tree explorer treeitems from the selected or every item*
- *walkLinked( hTreeRoot, call, isRoot ) --node*
  - *You walk nodes connected with each other.*
- *Not yet implemented*
  - *other means of walking the graph*
    - *Visitor*
    - *..?*

# Node Model Api

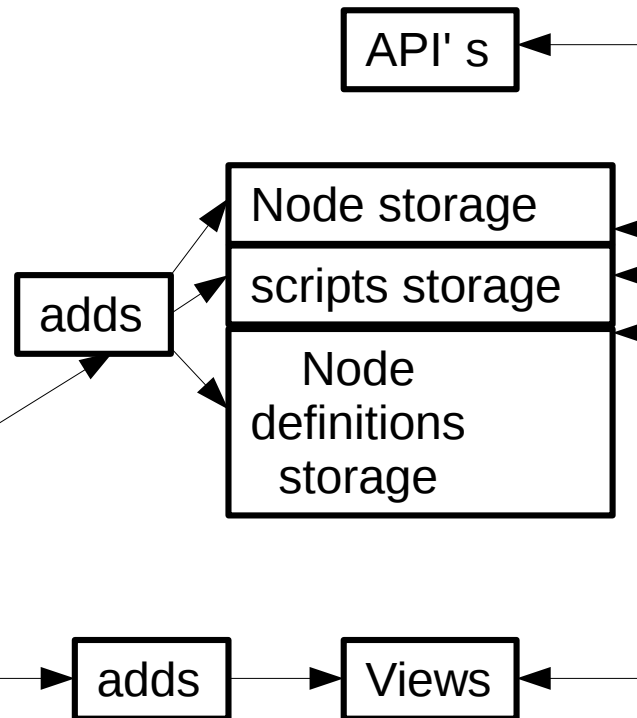
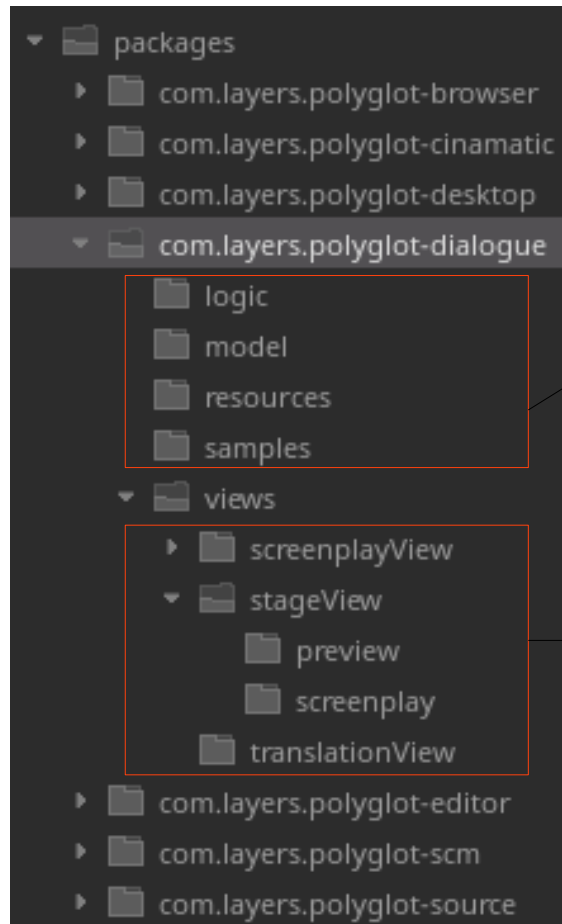
- *getDatamodel()*
  - *Gets all model definition to create a node from definition*
- *getSharedDatamodel()*
  - *Shared node storage*

ShiVa module

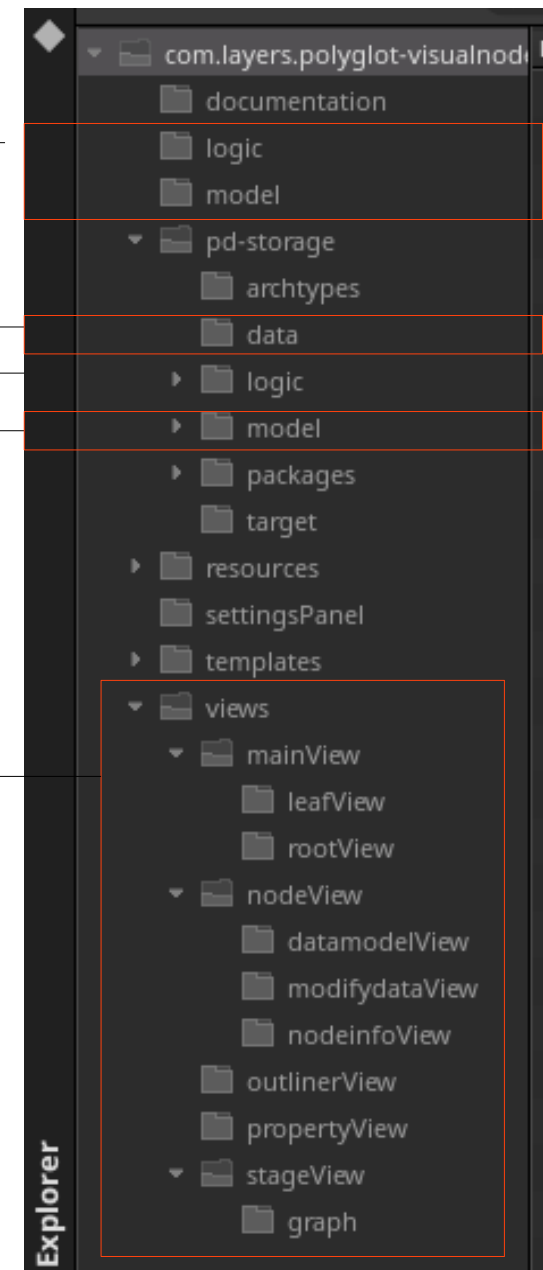
polyglot-visualnode

Technical 'module'

# Package structure



# Module structure





## Sources

<https://github.com/cheramu/com.layers.polyglot-visualnode>

## Issues & Tasks

<https://github.com/cheramu/com.layers.polyglot-visualnode/issues>

## Docs & Design

<https://github.com/cheramu/com.layers.polyglot-visualnode/tree/master/documentation>