Lightning Talk Tree transformation with Python









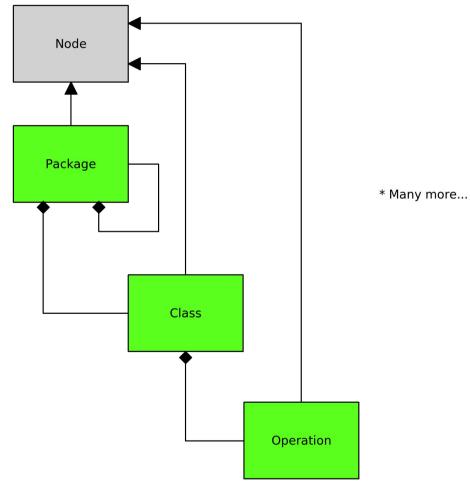
Nodes and trees

- Node
 - Base object for building trees
 - Provides a dictionary like API and implements zope.interface.mapping.IFullMapping
 - Knows about it's position. It implements zope.location.interfaces.ILocation
 - Can be accessed flat. Nodes are accessible from each other via UID references
- Every data structure can be represented as tree, i.e.
 XML, UML, File System, SQL, LDAP



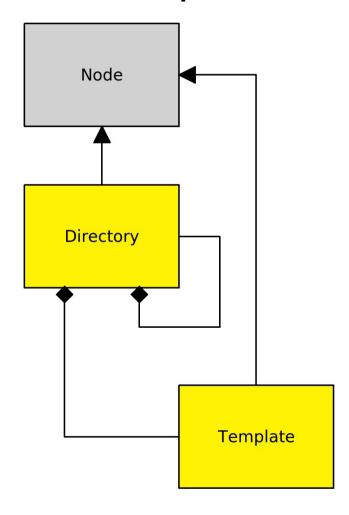


UML as node compliant tree





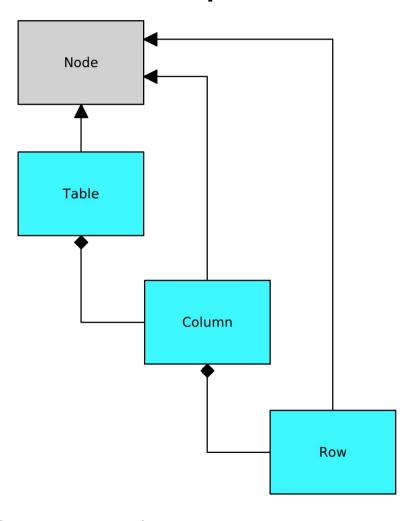
FS as node compliant tree







SQL as node compliant tree







IO System

- AGX IO System
 - Based on Nodes
 - Follows the interfaces provided by Node
 - Introduces ISource and ITarget, both derive from INode
 - ITarget promises to persist or dump the tree on __call__() in any way.





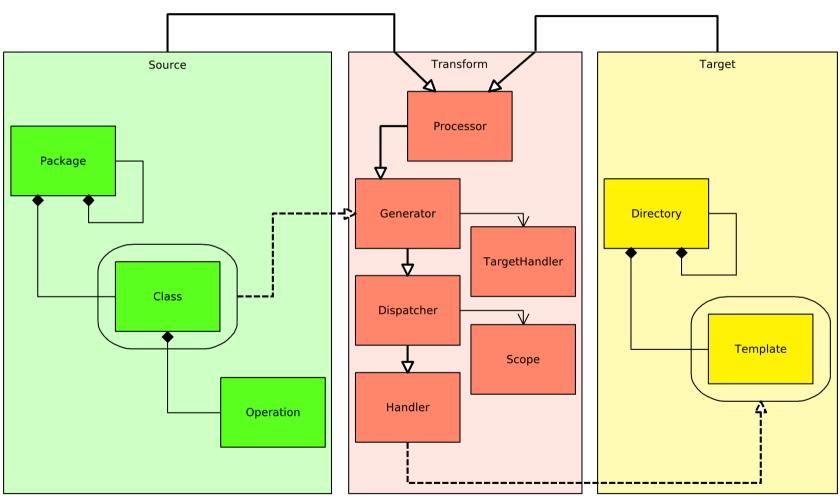
Tree transformation chain

- Iterate over all nodes of source tree and look up handlers, which are responsible for creating target nodes inside the target tree based on the information from the source node.
- Transformation chain components located in agx.core
- Finally target tree is called.



Idgx

Tree transformation chain







Thank you!

