My intent is to automate production of raster files to use QgisMapServer as a WMS Server. In order to manage it, I use a stand-alone python script (without GUI) to handle QGS project files. See attached file modifyqgs.py.

Up to now, I am able to add raster layers to an existing project using QgsMapLayerRegistry.

Now, I want to organize layers using groups but I didn't find any API to achieve it using "headless" API - that is without qgis.utils.iface.legendInterface() component. Still undocumented QgsLayerTreeGroup used by QgsProject may be a future solution?

Regards.

The QgsLayerTree* classes are exactly what you are looking for. Please see the doxygen documentation of the classes (especially QgsLayerTreeNode, QgsLayerTreeLayer, QgsLayerTreeGroup). I will add some more documentation to PyQGIS cookbook later. For now, your entry point is QgsProject.instance().layerTreeRoot() - from there you can start adding child groups and layers.

Thank you Martin.

I have just tried these classes and I think there are some points to fix if you confirm them:
- QgsLayerTreeNode, QgsLayerTreeLayer, QgsLayerTreeGroup documentation is not generated by doxygen in official documentation http://qgis.org/api/2.4.

- When I try 'print QgsProject.instance().layerTreeRoot().dump()' in a stand-alone python script, I only see GROUP nodes. Same command in Python Console in QGIS Desktop displays GROUP and LAYER nodes.

Ex:

Results in stand-alone script
---

GROUP: visible=2 expanded=1
GROUP: myGroup visible=2 expanded=1
---

Results in Python Console
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Best Regards.

Files

<table>
<thead>
<tr>
<th>File</th>
<th>Size</th>
<th>Date</th>
<th>Author</th>
</tr>
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<tbody>
<tr>
<td>modifyqgs.py</td>
<td>1.75 KB</td>
<td>2014-07-01</td>
<td>David AMAR</td>
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