Design Document - JMapDesk

Short description of each Package

MapGenerator:

.../gen:

Container.java Put, Get Layers Layer.java Obejct Layer

LayerPanel.java Panel which shows Layers
MapFile.java Predefined Mapfile

MapGen.java Main Class.

MapGen_GUI.java GUI.

WMSDialog.java Dialog to enter a WMS.

JMapDesk:

.../junit:

LayerTest.java JUnit Tests.

MapFileTest.java MapPointTest.java

.../logic:

Map.java All needed things for generate a map.

MapTile.java Get all needed information before calling shp2img

.../mapfile:

MapFile.java Parse Mapfile. MapFileLayer.java Mapfile Object.

TagList.java Little map parse helper

.../ui:

ErrorBox.java Shows shp2img errors in a dialog.

GUI_Components.java Some GUI things like buttons etc.

ImageToClipboard.java Put an image into Clipboard.

JMapDesk.java Main Class. JMapDesk GUI.java GUI.

SplashScreen.java Splash while starting.

ViewComponent.java Showing map in this window.

.../util:

MapPoint.java MapPoint Object.

.../wrapper:

InvalidBinaryException.java Throws a warning.

MapLoader.javaUsing shp2img to generate a map.StreamGobbler.javaCheck if "shp2img" is still intact.

Detailed description of the interesting Classes

MapGenerator:

.../gen/MapGen.java

- extract_layer: filter needed data from ogrinfo.

- calc_extent: extent needs to recalculate if more than one shape is opened. To get the

whole image the smallest x, y and the largest width and height.

JMapDesk:

.../logic/MapTile.java

- load: get all data needed for shp2img

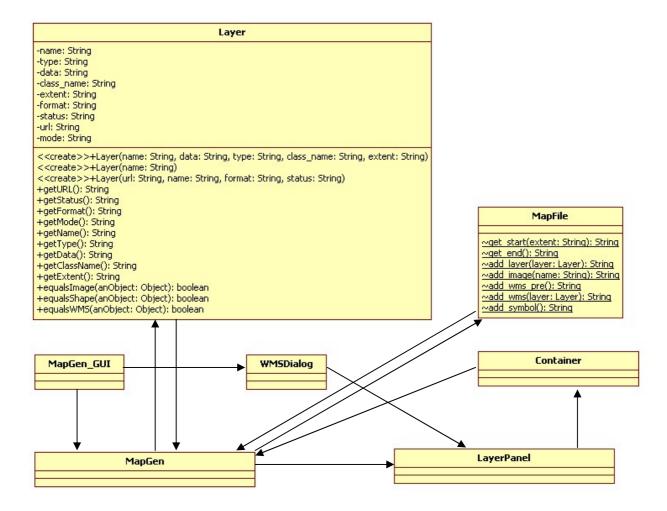
.../mapfile/MapFile.java

- readMapfile: parse mapfile line by line and retrieve needed values for further use.

.../ui/JMapDesk.java

- check_mapfile: use shp2img with "-debug 1" flag and show any warning in the errorbox.
- askForBinaryFile: if shp2img is not set in jmapdesk.cfg it will ask to point the path.
- loadMapfile: used parsed data to generate a map and update the gui.
- Innerclass SelectArea
 - Show generate map as background.
 - Override paintComponent to draw a rectangle on mousepressed and put the selected area to clipboard (not fully working at the moment!).
- ViewComponent: this window shows the generated map.
- loadMap:
 - shp2img flags:
 - -m specify the mapfile
 - -i image format
 - -o output path
 - -l just using those layers to generate a map
 - -e define extent
 - -s change mapsize
 - systemCall: use runtime to execute shp2img

MapGenerator Overview:



JMapDesk Overview:

