

# Cleaning up dependencies between various modules and coverage

<b>Motivation:</b>	GeoTools codebas has some strange dependencies (main depends on coverage??) as well as some old unused code floating around!
<b>Contact:</b>	Simone Giannecchini
<b>Tracker:</b>	<a href="http://jira.codehaus.org/browse/GEOT-1148">http://jira.codehaus.org/browse/GEOT-1148</a>
<b>Tagline:</b>	a good main is hard to find

This page represents the **current** plan; for discussion please check the tracker link above.

## Description

This proposal is all about moving some code into a more appropriate module:

- coverage implementations in **main** move to **coverage** module
- mapcontext implementations in **main** go to **rendering** module
- move all the ImageIO plugins and GC plugins to its own directories
- old GridCoverageExchange implementations go to the recycle bin
- renderer is using a lot of classes that actually act as adapters between JTS geometries and Java2D Shapes, my goal is to move these classes to a module in **main** in order to allow people to leverage on them.

I am planning on achieving these goals in two steps. First I want to finish the first four tasks which would just clean up and reorganize a bit of code between core modules. Once this step is done and reviewed, I would like to move all the JTS-to\_Shape adapters to **main** in order to be able to leverage on them from other modules (like for doing Region of Interest in Coverages).

This change is similar to the recent requests to break out **data** and **jdbc** modules from **main**; this time however an appropriate location is already available.

## Status

This proposal has been submitted, simboss is working on it. Here below you can find a tasks list that can be used to track the advancement of this work.

dynamictasklist: task list macros declared inside wiki-markup macros are not supported

## Resources




File	Modified <sup>▲</sup>
No files shared here yet.	

## Tasks

	no progress		done		impeded		lack mandate/funds/time		volunteer needed
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A target release is also provided for each milestone.

Milestone 1	2.4-M0	Move to Coverage Module
	Simone Giannecchini	Identify candidate coverage & test cases

		consult with module maintainer
		svn mv
		test and release
		update documentation
<b>Milestone 2</b>	<b>2.4-M0</b>	<b>Move to Render Module</b>
	Simone Giannecchini	Identify candidate coverage & test cases
	Simone Giannecchini	consult with module maintainer
		svn mv
		test and release
		update documentation

## API Changes

Before	After
org.geotools.data.coverage.grid.*	org.geotools.coverage.grid.io.*
org.geotools.data.coverage.grid.file, org.geotools.data.coverage.grid.stream	<b>DISMISSED</b>
org.geotools.coverage.io.AbstractGridCoverageReader.java, org.geotools.coverage.io.AmbiguousMetadataException.java, org.geotools.coverage.io.ExoreferencedGridCoverageReader.java, org.geotools.coverage.io.MetadataBuilder.java, org.geotools.coverage.io.MetadataException.java, org.geotools.coverage.io.MissingMetadataException.java	Moved under spike/exoreferenced waiting for Martin to review
org.geotools.image.io.RawBinaryImageReader, org.geotools.image.io.RawBinaryImageReadParam	<b>DISMISSED</b>
org.geotools.resources.image.CoverageUtilities	org.geotools.resources.coverage.CoverageUtilities
org.geotools.image.imageio.*	org.geotools.coverage.grid.io.imageio.*
org.geotools.image.io.SimpleImageReader subclasses	Moved to spike/simpleimagereader waiting for Martin to review
org.geotools.map.*	Moved to renderer
org.geotools.data.DataUtilities#wrapGc(GridCoverage gridCoverage), org.geotools.data.DataUtilities#wrapGcReader( AbstractGridCoverage2DReader gridCoverageReader, GeneralParameterValue[] params)	Moved to org.geotools.resources.coverage.CoverageUtilities
ext/coverage_development/imageio/*	Move to spike/imageio/*

## Documentation Changes

Website:

- Update [Module matrix](#)
- Update [Upgrade to 2.4](#) instructions

Developers Guide:

- Update description of layered architecture

User Guide:

- check

User Manual:

- check

Issue Tracker:

- Check for bugs against "main" that can now change to the "coverage" or "renderer" component.