

# Reverse Engineering of the GeoNetwork

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# Introduction

- ◆ GeoNetwork is a opensource web based Spatial Data Catalog.



# Major Components

- ◆ GeoNetwork Web Interface
- ◆ GeoNetwork Websever
- ◆ Intermap
- ◆ Search Engine

# Major Tasks

- ◆ Reverse engineer all of the Javascript, HTML, XML and XSL in client side
- ◆ Identify and document javascript functions, classes and the relationships between these functions
- ◆ Identify all unused functions
- ◆ Use OpenLayers to replace the InterMap (pending)

GeoNetwork  
Reverse Engineering

Determine  
Code

Identify  
Coupling

Alter  
Intermap

Determine  
Javascript

Determine  
HTML

Relationship  
Between  
Javascript function

Javascript functions  
in  
XSL/XML/HTML Code

Decouple  
Intermap

Potential  
use of  
OpenLayers

Determine  
XSL/XML

Identify  
Unused  
Functions

Identify  
Code/Function  
File

Bin's work

Ji's work

# Working Enviorement

- ◆ Domain Knowledge
  - ◆ Javascript (Ajax)
  - ◆ XML, XSL, and HTML
  - ◆ Webserver and Database
- ◆ Useful Tools
  - ◆ Firebug
  - ◆ Oxygen XML Editor
- ◆ Original files(1495 files in 261 folders)