

# Architecture Presentation

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# Summary

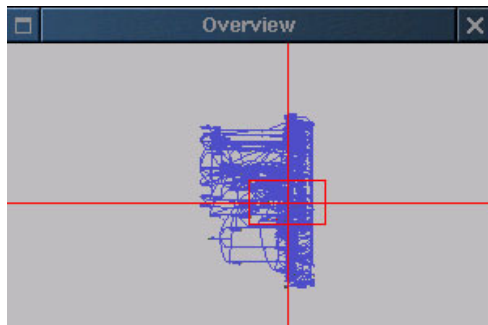
- Give a simple Architecture View of our planned contribution to the ZGRViewer developed by Emanuel Pietriga @ W3C SWAD
- Summarize the importance of our contributions to the project and explain some technical objectives that we address

# Our Main Contribution

- FileEditor: An extra class on top of ZGRViewer that makes calls to already defined public methods
- “Reparse” requires call to graphviz dot/neato
  - Extra parameters may be added using an option array
    - For example DOT Global properties (Node Shape, Color etc)

# Minor Contributions

- Usability
  - Add a toolbar
    - Requires an extra development effort to the ZVTM Interface API
  - Radar View
    - A small window with a bird's-eye view for easiest navigation on large graphs.

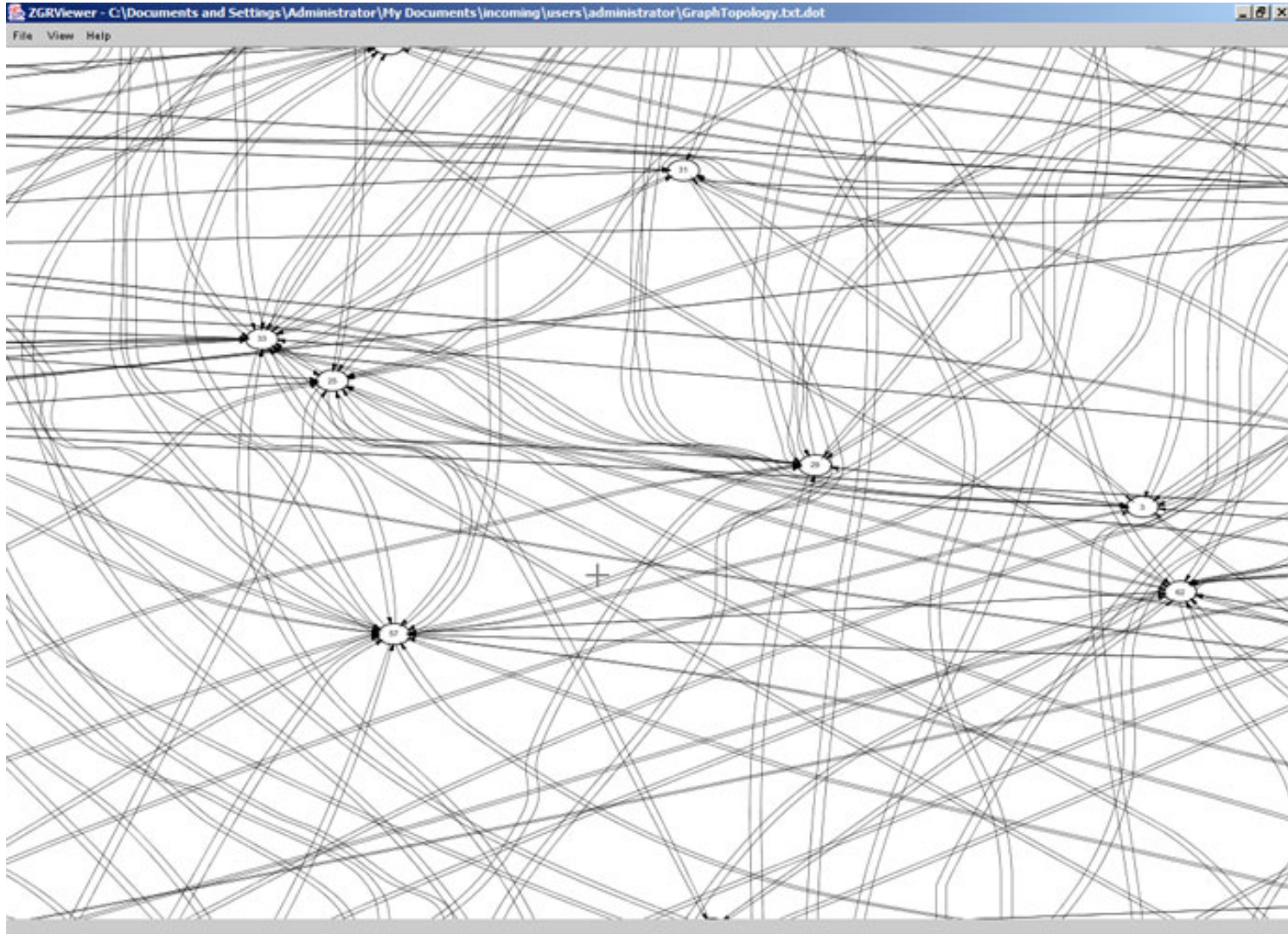


*ISAViz Overview Window, ISAViz is Copyright by W3C Semantic Web Advanced Development Activity*

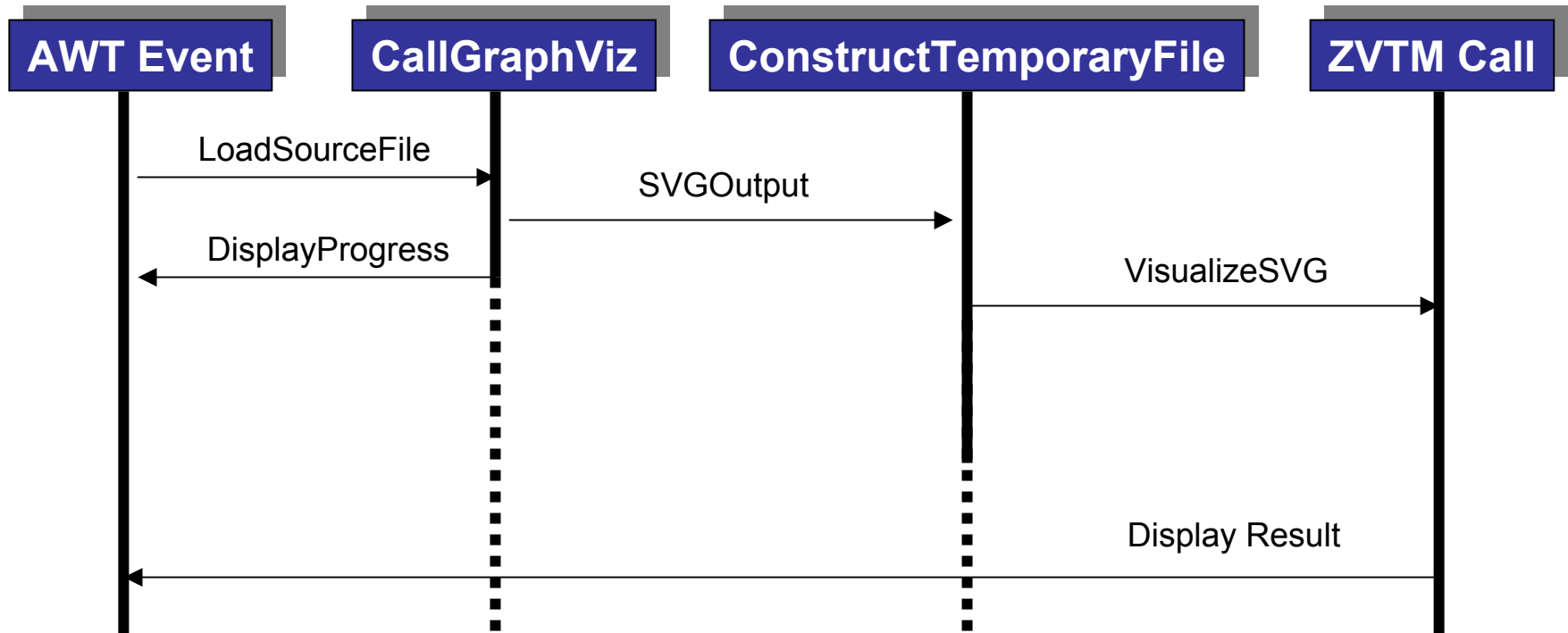
# Minor Contributions (Continued)

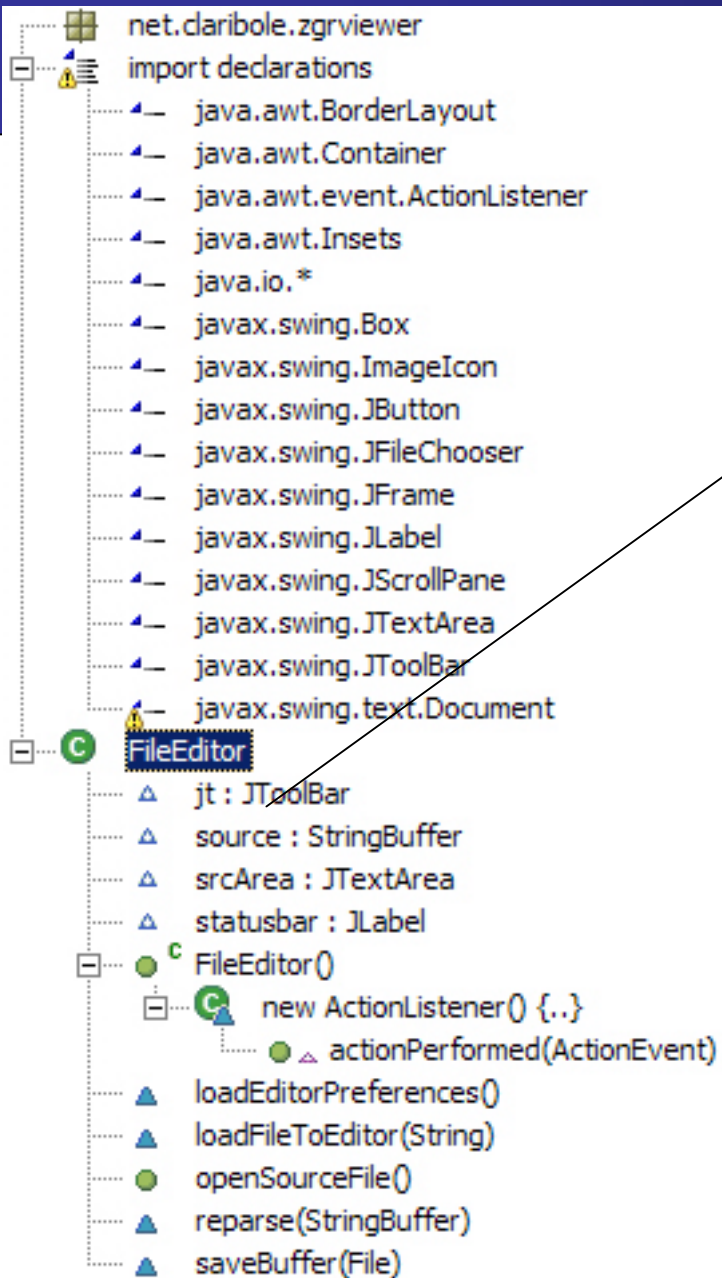
- Exporting to Encapsulated Postscript File Format
  - needed for high-quality images, especially for those using Latex
    - `ImageIO.createImageOutputStream`

# What ZGRViewer Does ?



# ZGRViewer API Calls





**Current  
Architecture  
from the  
Source Editor**



# Editor Method Calls

- **loadEditorPreferences**
  - Reads an XML File (using Apache Xerxes)
    - `org.apache.xerces.dom.DOMImplementationImpl`
- **loadFileToEditor**
  - Opens the file using an input stream method (`openSourceFile`)
- **Reparse**
  - Displays the current string buffer to the ZGRViewer (it follows a similar method invocation when calling `dot`)

# Usability Function Calls

- ZViewZoomIn (Event Handler)
  - Zooms in one level
- ZViewZoomOut (Event Handler)
  - Zooms out one level
- ZViewGoLeft
- ZViewGoRight

# Summary

- Why the editor is important
  - Gives access directly to the source
  - Makes easier the use of global parameters thus making the declarative specification more de-contextualized
- Why Usability is important
  - Measures of how easy it is to use a product to perform prescribed tasks.