

# OSGI Plugins with Rules

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# Agenda

- What? Content personalization?
- It's all about Rules
- The personalization triangle
- Anatomy of a Rule – Conditionlet
- Anatomy of a Rule – Actionlet
- OSGi Plugin – Hands-on Example



# What? Content personalization?

## World Wide Web

The WorldWideWeb (W3) is a wide-area [hypermedia](#) information retrieval initiative aiming to give universal access to a large universe of documents.

Everything there is online about W3 is linked directly or indirectly to this document, including an [executive summary](#) of the project, [Mailing lists](#), [Policy](#), November's [W3 news](#), [Frequently Asked Questions](#).

### What's out there?

Pointers to the world's online information, [subjects](#), [W3 servers](#), etc.

### Help

on the browser you are using

### Software Products

A list of W3 project components and their current state. (e.g. [Line Mode](#), [X11 Viola](#), [NeXTStep](#), [Servers](#), [Tools](#), [Mail robot](#), [Library](#))

### Technical

Details of protocols, formats, program internals etc

### Bibliography

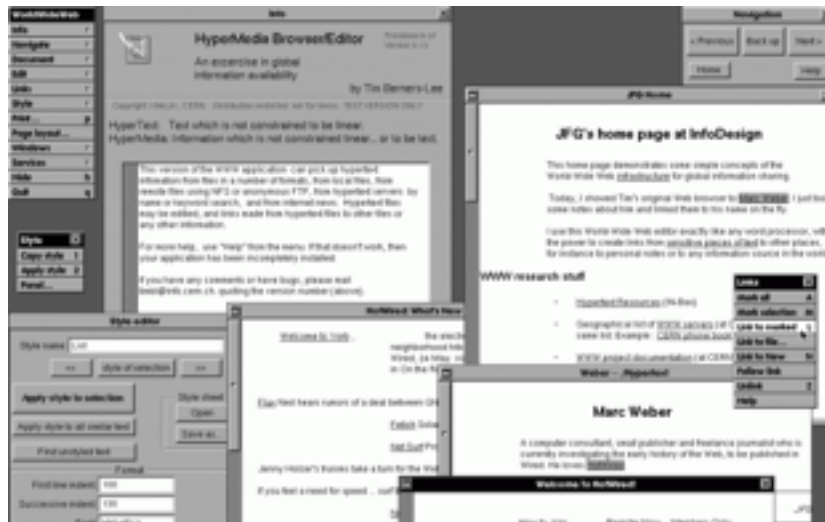
Paper documentation on W3 and references.

### People

A list of some people involved in the project.

First Web Page - 1991

First Web Browser - 1993



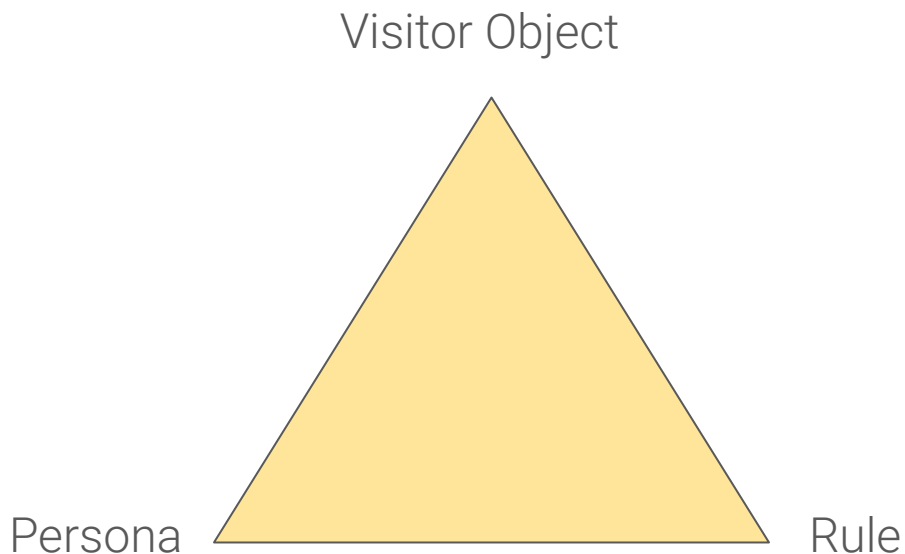
# It's all about Rules

“Configure responsive front-end behavior based on a variety of visitor conditions.”

The screenshot displays a web analytics dashboard with a navigation bar at the top containing tabs for Home, Site Browser, Content, Marketing, Content Types, and System. The 'Marketing' tab is active, and a dropdown menu is open, showing options for Rules, Vanity URLs, and Forms. The main content area is titled 'Rules' and includes a search bar with the placeholder text 'Start typing to filter rules...'. Below the search bar, there are filters for 'Show: All | Active | Inactive' and an 'Add Rule' button. The dashboard shows two rule configurations:

- Global Investor:** This rule is active and fires on 'Every Page'. It triggers when the 'Visitor's Current URL' contains '/global-investors'. The action is to 'Set Persona' to 'Global Investor'.
- Spanish Investor:** This rule is also active and fires on 'Every Page'.

# The personalization triangle



## **Visitor Object:**

User identification and information tracking.

## **Persona:**

Visitor categorization into groups.

## **Rule:**

Assign personas and tags to visitors.

# Anatomy of a Rule - Conditionlet

## Plugin Contents

Activator  
GenericBundleActivator

Registers the custom Conditionlet to the dotCMS  
Rule Engine.

MyConditionlet  
Conditionlet<T extends RuleComponentInstance>

Implementation of the Conditionlet class, including  
expected input parameters and final validation.

## Resource Files

Properties files for i18n or  
Conditionlet configuration files.

# Anatomy of a Rule - Actionlet

## Plugin Contents

Activator  
GenericBundleActivator

Registers the custom Rule Actionlet to the dotCMS  
Rule Engine.

MyRuleActionlet

RuleActionlet<T extends RuleComponentInstance>

Implementation of the Actionlet class, including expected  
input parameters for executing the action.

## Resource Files

Properties files for i18n or  
Conditionlet configuration files.

# OSGi Plugin - Hands-on Example

The source code examples can be downloaded from:

<https://github.com/dotCMS/plugin-seeds/>

Eclipse plugin for Gradle can be downloaded from:

<http://download.eclipse.org/buildship/updates/e46/releases/1.0>

Or you can look it up from the Eclipse Market Place under the name:  
Buildship: Eclipse Plug-ins for Gradle





Questions?



Thank You!