

# Dispatcher (Draft - feature under development)

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**Warning:**

The "dispatcher" is new functionality which is still in development phase. That is why it is in the "whiteboard" section of the Forrest distribution. We are working at the moment on moving this plugin from the whiteboard into the core plugins.

## 1. Introduction

As stated in the [Skin documentation](#) the aim of the Forrest skins is to provide many capabilities so that extra skins are not needed. Experience showed that many Forrest users still decided to create a new skin because the default skin did not offer the features that they wanted or they "just" needed extra content in some pages. We introduced skinconf.xml where the user could configure some features of skins but it was up to the skin to support it and did not solve the problem to add page specific extra content. That led us to develop a new concept of creating skins (we called the result "themes") which would be more easily extensible by a user.

## 2. Background

The problem with the forrest skins so far has been that even if "only" the design changed (html-skeleton), we still had to write a completely new skin and implement all functionality. Another problem was that the functionality was not easily extensible by a user. We decided to support a standard regarding naming conventions for css elements. This standard has been developed on the [OSCOM website](#), where you can find some more background information.

### 2.1. Definition of naming conventions

"A naming convention is an attempt to systematize names in a field so they unambiguously convey similar information in a similar manner." [wikipedia](#)

### 2.2. leather-dev

That led to the development of the "leather-dev" skin which established a semantic container approach for div elements. Leather-dev evolved from the "pelt" skin and almost used the same functionality (contracts). We had started to encapsulate functional code into templates, but there have been still in 4 xsl files and without any documentation what they are doing and how to use them. The problems with leather-dev was pointed out in the mail "[status on leather-dev?](#)". The main problem was to limit users to only one html-skeleton was way too limiting regarding design. Since we had now grouped functionality in named container we were ready to start the dispatcher (aka forrest:views).

## 3. Dispatcher - advanced separation of concerns

The aim of the "dispatcher" concept is to provide a flexible framework for creating site and page specific layout in different formats from different content through an advanced separation of concerns.

The dispatcher is a filter that limits the data-model to a minimum by only requesting what the structurer (e.g. common.fv) need. This leads to a different URL handling focus - away from document centric. A document can (but do not have to) be behind a certain URL. Like said a structurer can request any given data as input not only a document and the forrest core contracts (like navigation). It may be the main enhancement in comparison to skins that this concept let you easily extend the default data

models provided by forrest.

Since the dispatcher has implemented a fallback concept it makes maintenance of custom themes which are based on forrest core ones very easy and less time consuming. The principal is to override or extend only certain parts (contracts) of the core. This is based on the observation that normally only a small percentage of core skin contracts have been changed. At the same time the new plugin system emerged. Plugins are a way of extending Forrest to satisfy site-specific needs. This includes to provide plugin specific contracts.

### 3.1. Contracts - grouped functionality

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The result of the leather-dev development were grouped functionality in named container. We gave those code snippets names (based on their functionality) and called them contracts. This naming enabled us to keep the contract separate from the position code itself. Further since major parts of the code of skins never have been documented we started to add for each contract a description and an explanation how to use this contract. The skinconf.xml gave an excellent source for this documentation effort, since it described most features of the pelt skin.

Contracts are standalone, self explaining, configurable pieces of xsl templates created out of pure maintaining reasons.

## 4. Further information

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See the various How-to documents about the dispatcher, starting with [installing the dispatcher](#) and [quickstart](#)

Apache Forrest 1.0 Specification (Draft, not yet published):

`site-author/content/xdocs/TR/2005/WD-forrest10.html`