



Dependency Injection

Dependency injection removes the responsibility for object creation and object linking from the objects themselves to a factory. The factory is often provided by an Inversion of Control (IoC) container. For an overview of Inversion of Control containers and the Dependency Injection pattern, please see [Martin Fowler's article](#).

Internally, the framework uses its own dependency injection container that is very similar to Google Guice. Both were originally developed by [Bob Lee](#). Plugins are available to integrate applications with other IoC containers (e.g. [Spring Plugin](#), [Plexus Plugin](#)). An application can even use a local copy of Google Guice for dependency injection needs.

 Actions can still be instantiated via Spring configuration by way of the [Spring Plugin](#), but Spring is entirely optional.

 The WebWork/XWork IoC container utilized by WebWork 2.1 is not supported by Struts 2.

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