

## SENSIOLABS

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**Sensio**Labs



## EXTENDING & HACKING SYMFONY 4

### BLENDED LEARNING TRAINING PROGRAM

(face-to-face + e-learning)

#### **Goals:**

In two days only and thanks to our expert instructors, you'll be able to improve your current Symfony skills. This training helps you to better understand how Symfony works under the hood and how you can easily hack and extend the configuration layer, the HTTP kernel, the form and validator components as well as the authentication and authorization layers. Be prepared to effectively master Symfony and its internals!

**Duration:** 2 days - 14 hours

**Code:** SF4C3

**Public:** PHP web Developers

**Requirements:** Mastering Symfony 4

#### LEVERAGING THE SYMFONY CONSOLE COMPONENT

- Discovering the Symfony Console component
- Automating heavy tasks thanks to the command line
- Designing and enabling interactive
- Using the « Formatter » helper to colorize the console
- Using the « ProgressBar » helper to develop progression bars
- Using the « Table » helper pour display tabular data in the console output

#### AUDITING YOUR APPLICATION WITH THE SYMFONY PROFILER

- Analyzing collected data from the profiler
- Analyzing collected data from the application's code
- Configuring the web profiler for the production environment
- Designing custom data collectors to extend the Symfony Profiler
- Extending the « Web Debug Toolbar » and the « Web Profiler » with new debug panels

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## DEPENDENCY INJECTION AND SERVICE CONTAINER

- Rediscovering some basics about the dependency injection principles
- Registering custom business services in the service container
- Understanding the concept of services « tags » to extend the framework built-in tools
- Developing custom « compiler passes » objects to optimize the container compilation

## AUTHENTICATION AND ACCESS CONTROL LAYERS

- Developing a custom user provider class
- Recording the last connection date and time of the user
- Triggering custom business code when the user impersonates another user
- Setting up a fined grained resources access control policy thanks to security voters

## FORMS AND DATA VALIDATION

- Understanding the internals of the « Form » component
- Extending or overriding built-in form field types
- Developing custom form field types
- Registering new form field types as services
- Developing new custom data transformers
- Modifying the form's data and structure thanks to form events listeners
- Displaying form fields depending on user's permissions thanks to form field types extensions
- Developing new custom data constraint validators

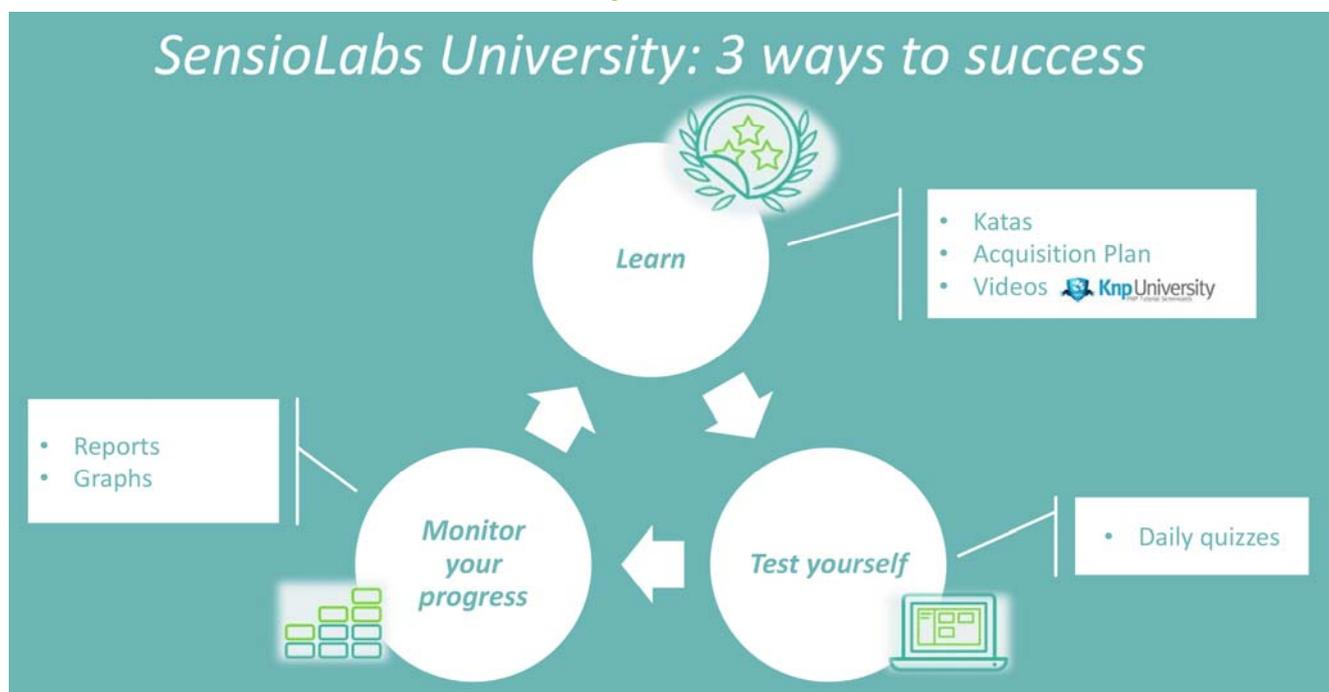
## DECOUPLING CODE WITH EVENT PROGRAMMING

- Discovering the kernel events and other components built-in events
- Extending the kernel behaviors with custom kernel events listeners
- Dispatching custom business events to make the code truly extensible
- Connecting custom event listeners to custom business events

## EXTENDING THE DOCTRINE ORM (ON DEMAND)

- Creating new custom storage form field types (ie. « Money » column type)
- Extending the default DQL syntax with custom DQL functions

## PLATFORM E-LEARNING



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