

# Course OUTLINE

Automation using Macros & Scripting in MagicDraw

Module 

1

#### Course Introduction

- Introduction
- Module Structure
- Course Outline
- Additional Resources
- Class Introductions

Module Module

#### Overarching Concepts

- NoMagic vs. CATIA Magic Branding
- Plugin vs. Macro vs. Script
- Supported Languages
- Using an IDE for Development
- Opaque Actions & Behaviors
- Structured Expressions

Module **03** 

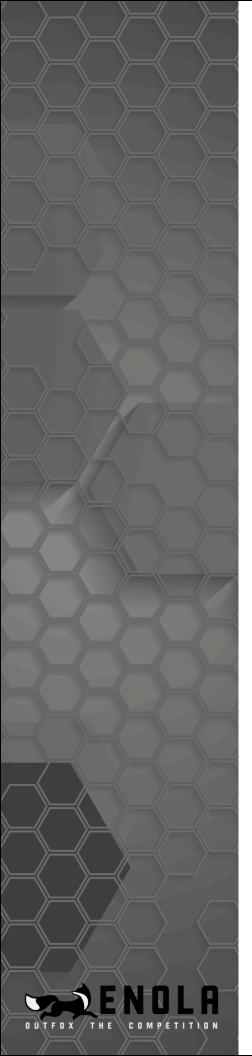
#### Introduction to the API

- What's an API?
- Understand the JavaDocs
- Version Changes
- Imports

Module **04** 

#### Common and Useful Classes

- Overview
- Element and NamedElement
- Application and Project
- Helpers
- Session Management
- Logging
- Selected Element



## Module **05**

#### Where Does Code Go?

- Overview
- Saving Macros
  - Locally
  - In a Macro Element
  - In an Opaque Behavior
- Executing Macros
  - Create Macro Dialog
  - Expression Evaluation Dialog
  - Body and Language Dialog
  - Simulation Opaque Behaviors
  - Simulation Activity Diagrams
- Using Scripts

### Module **06**

#### Examples and Hands-On Exercises

- Macro and Script Examples
- Hands-On Lab
  - Scripts Lab
    - Hello World
    - Custom Column
    - Dynamic Legends
    - Smart Packages
  - Macro Labs
    - Hello World+
    - Find and Print All Blocks
    - Rename Interface Blocks
    - Creating Elements