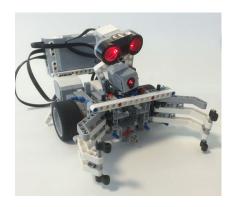
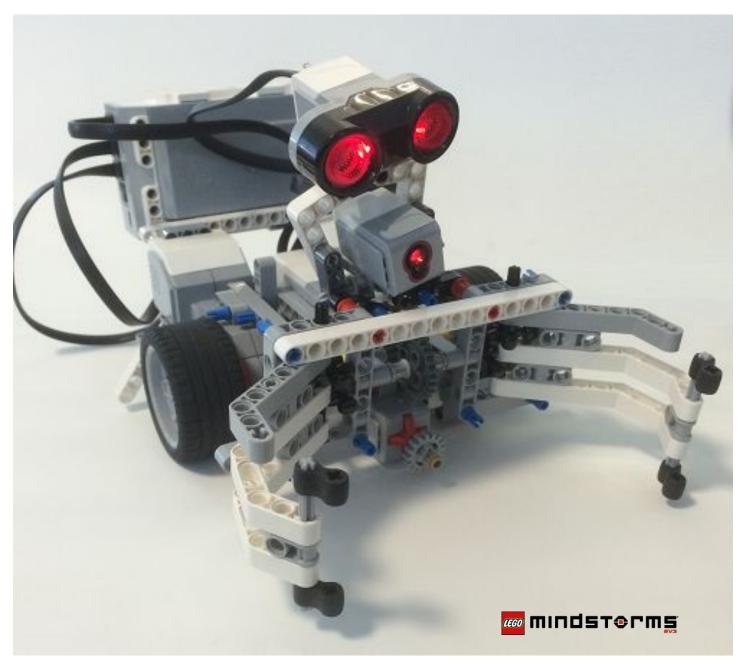


# **Tutorial Demo**









#### He can perform basic actions



**Going Forward** 



**Grab an object** 



**Rotate** 



Release an object



#### Java program

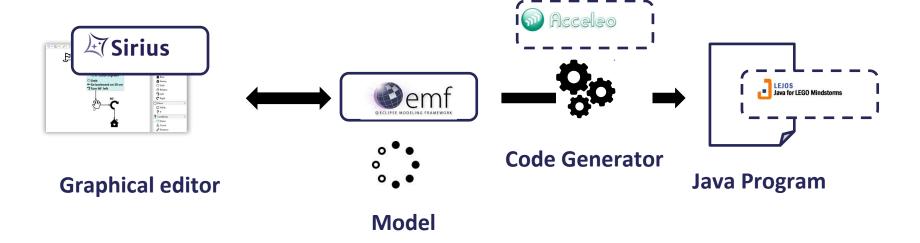
- Our robot is controlled by a program written in Java
- Based on a small framework on top of LeJOS EV3



```
@Override
public void execute() {
    robot.goForward();
   if (robot.getColor() == Color.GREEN) {
        robot.grab();
        robot.goBackward(50);
        robot.rotate(90);
        while (robot.isMoving()) {
            Thread.yield();
   robot.release();
   robot.rotate(-90);
   while (robot.isMoving()) {
        Thread.yield();
   robot.returnToBase();
   while (robot.isMoving()) {
        Thread.yield();
```

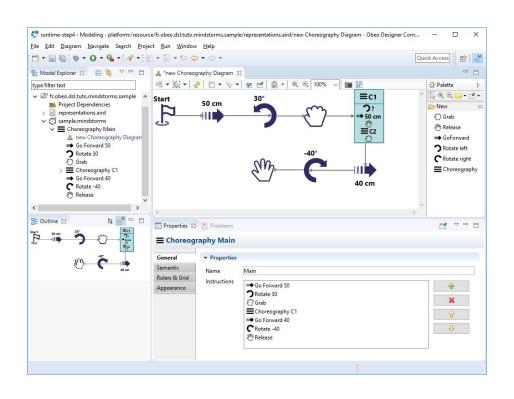


### **Modeling + Generation**





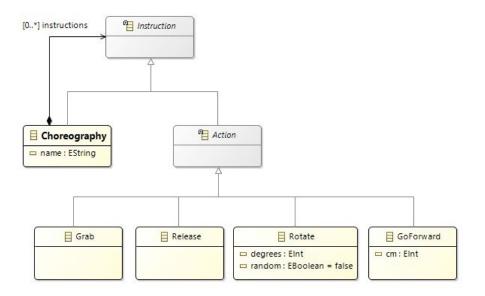
## **Graphical editor**





#### **Mindstorms Domain Model**

A subset of what the robot can do: Grab, Release, Rotate, GoForward





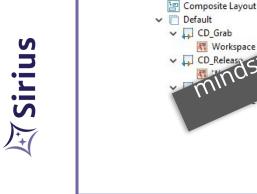
## **Principles**

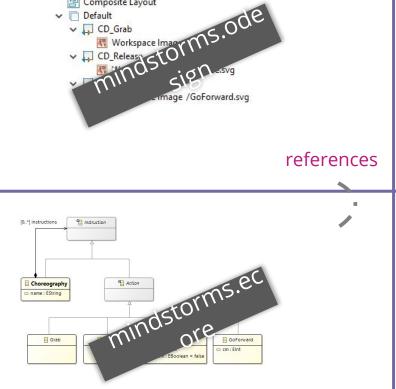
Tool Developer

**Modeling Tool** 

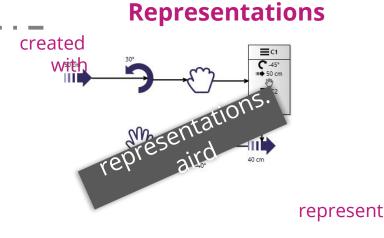
V & Choreography Diagram

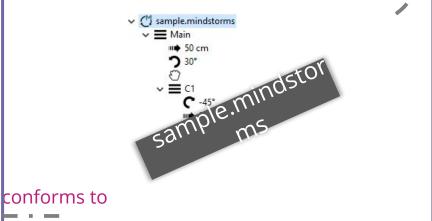
**End** User





**Domain** 



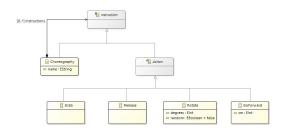


**Data** 

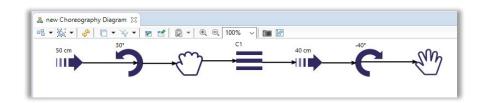


#### **Tutorial Steps**

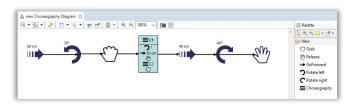
1) Metamodel



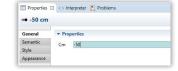
• 2) Visualisation Tool



• 3) Container and Edition Tools



• 4) Custom Properties views

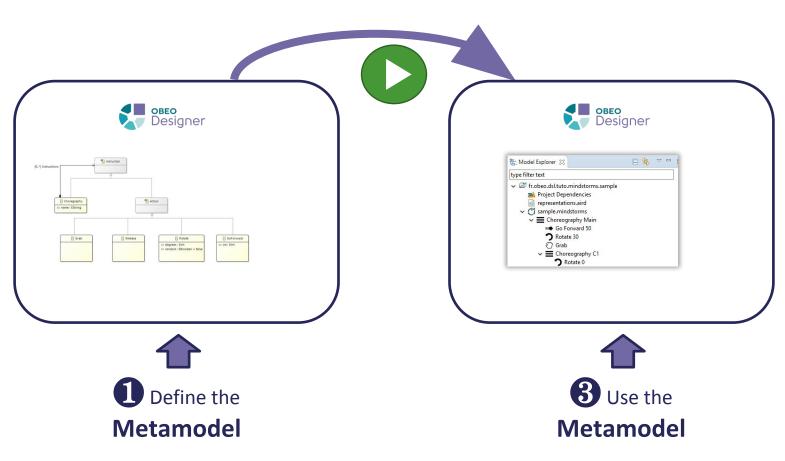






#### Work in a new runtime

**2** Run a **Eclipse Launch Configuration** 





#### Thank you!

#### **Next at EclipseCon Europe:**

- TUESDAY 17:00 MAKE YOUR TRANSITION TO CLOUD-TOOLING NOW THANKS TO AN HYBRID RCP/WEB APPROACH! by Cédric Brun
- WEDNESDAY 9:30 YOUR CLOUD-BASED MODELING WORKBENCH IN 15 MINUTES WITH ECLIPSE SIRIUS by Mélanie Bats
- WEDNESDAY 11:15 STEPPING UP SIRIUS TIPS AND TRICKS FOR YOUR VISUALIZATION JOURNEY! by Robert Bosch GmbH
- WEDNESDAY 15:10 A PLAYFUL INTRODUCTION TO MBSE (INTERACTIVE TALK INSIDE) by Etienne Juliot

At anytime, come to our booth!

