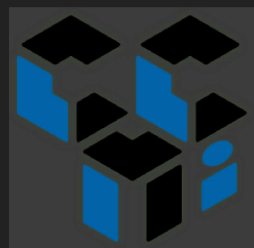


CENTRE FOR
CONCEPTUAL MODELLING
AND IMPLEMENTATIONS

OPENPONK

MODELING PLATFORM

(FORMERLY DYNACASE)

Peter Uhnak Robert Pergl

@peteruhnak @RobertPergl

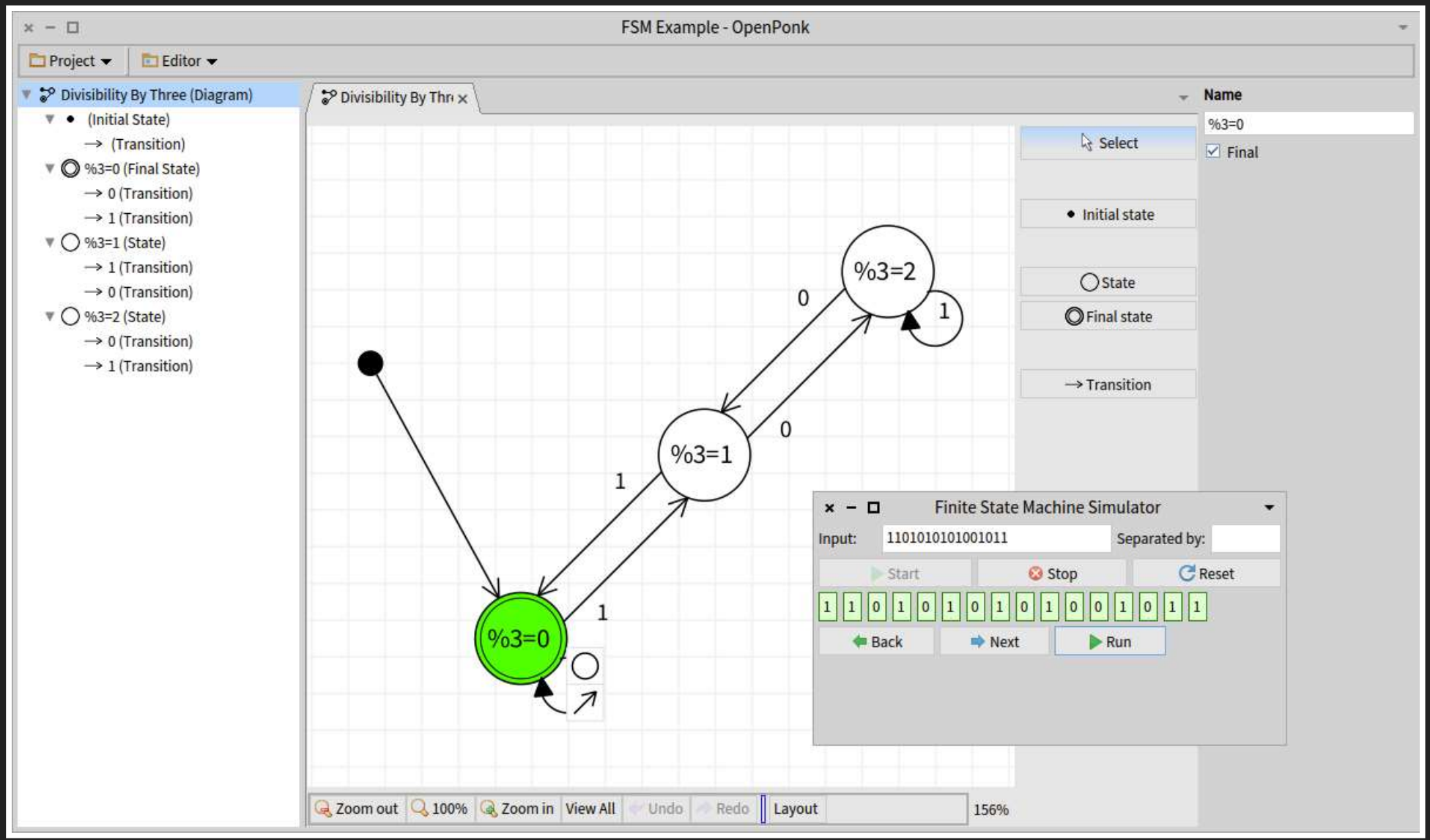
OPENPONK?


TRADES PRO

OPENPONK AS A TOOL

3 editors with several extensions

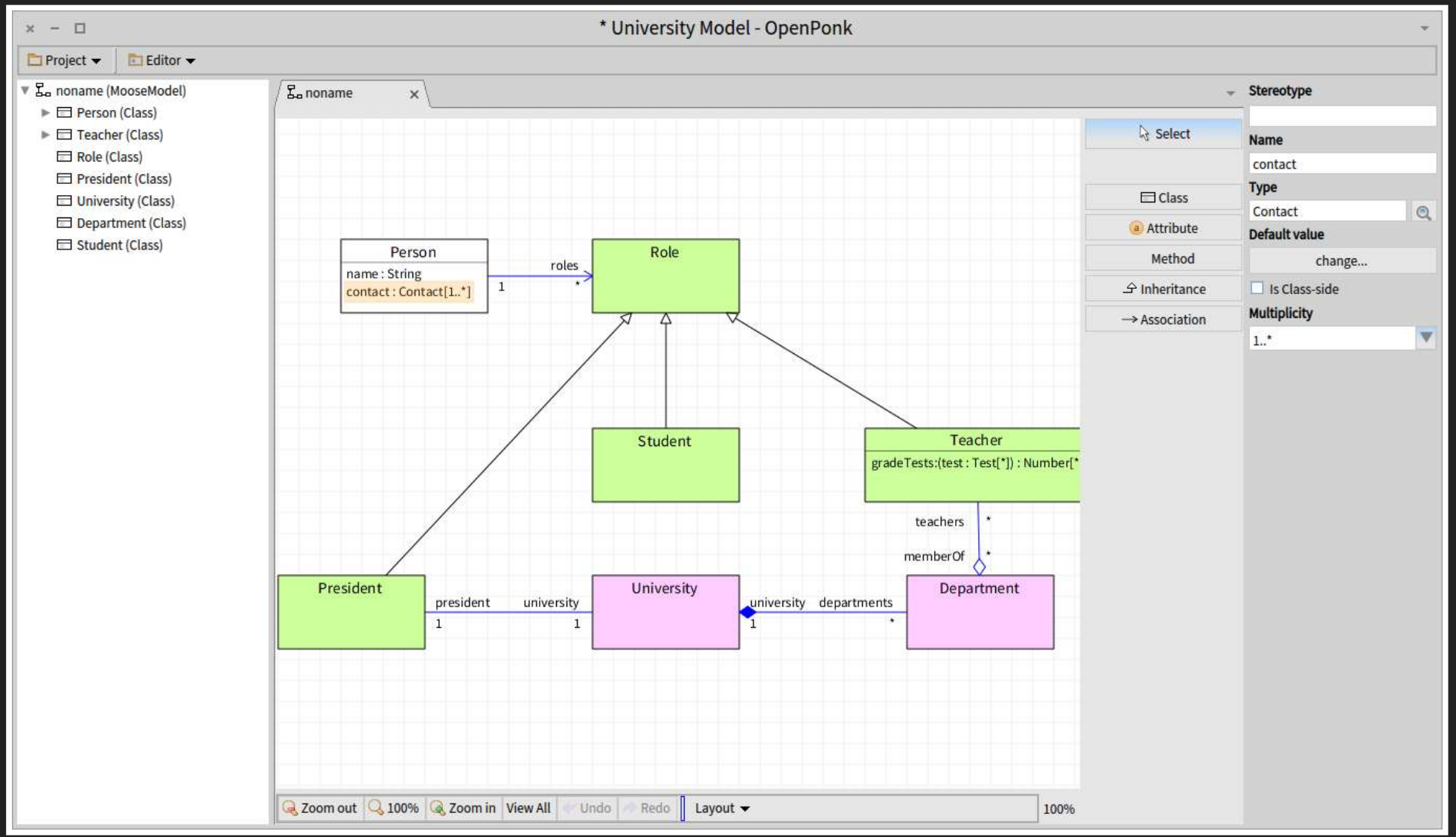
FINITE STATE AUTOMATA



FINITE STATE AUTOMATA

- editor
- simulation
- GraphML

UML CLASS DIAGRAM



UML CLASS DIAGRAM

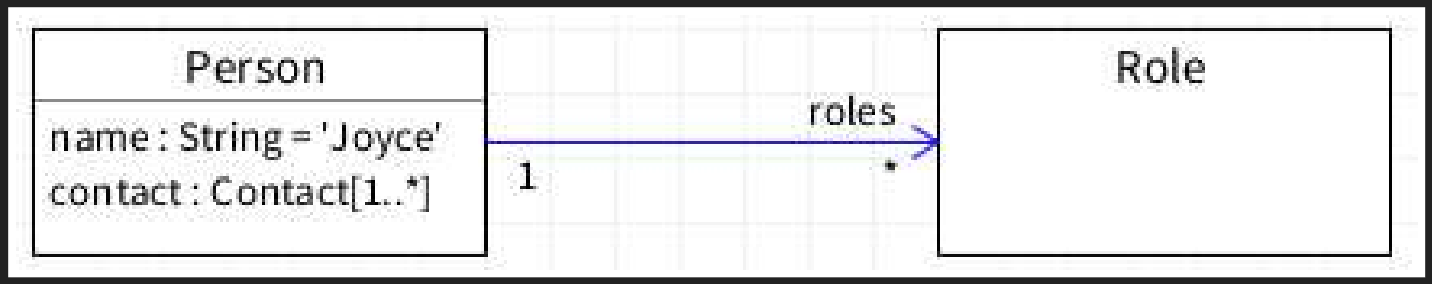
- editor
- DSL
- code generation
- reverse-engineering
- XMI interchange-ish

DSL

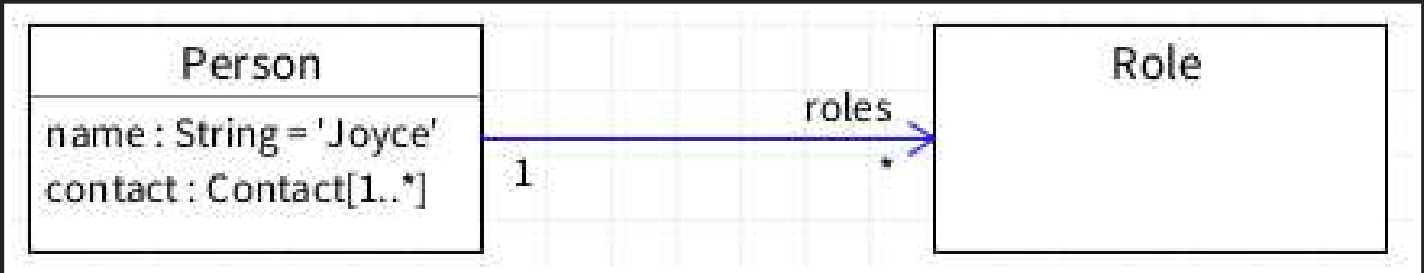
```
Person {
        name : String = 'Joyce'
        contact : Contact[1..*]
}

Role { }

Person --> roles Role[*];
```



CODE GENERATION

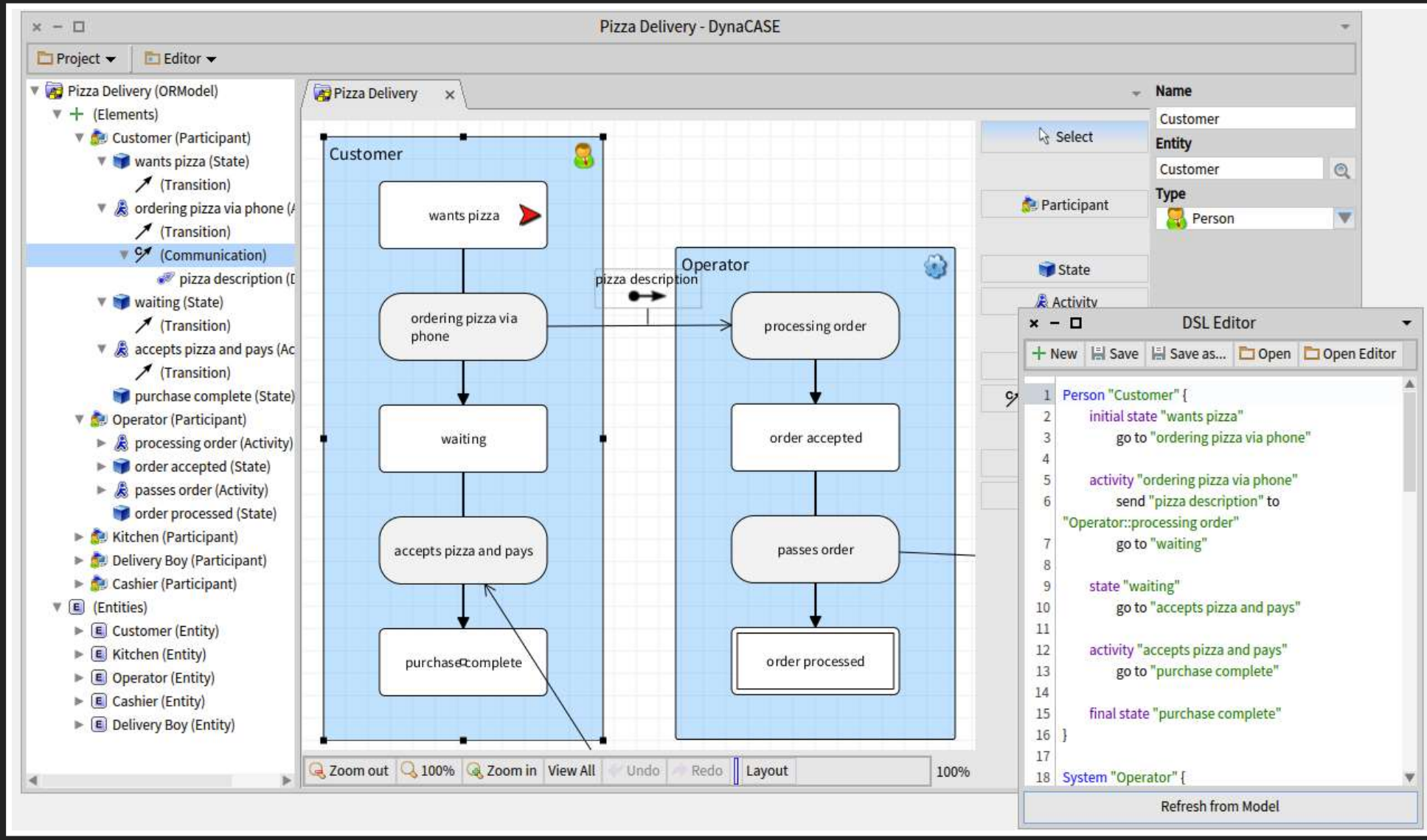



```
Person>>roles
        <DCAssociation: 'Person --> roles Role[*]'>
        ^ roles

Person>>name
        <DCType: 'String' multiplicity: #(1)>
        ^ name ifNil: [ name := 'Joyce' ]
```

BORM

Business Objects Relations Modeling



BORM

- editor
- DSL
- entities
- models interlinking

LIVE MODELING

model

view

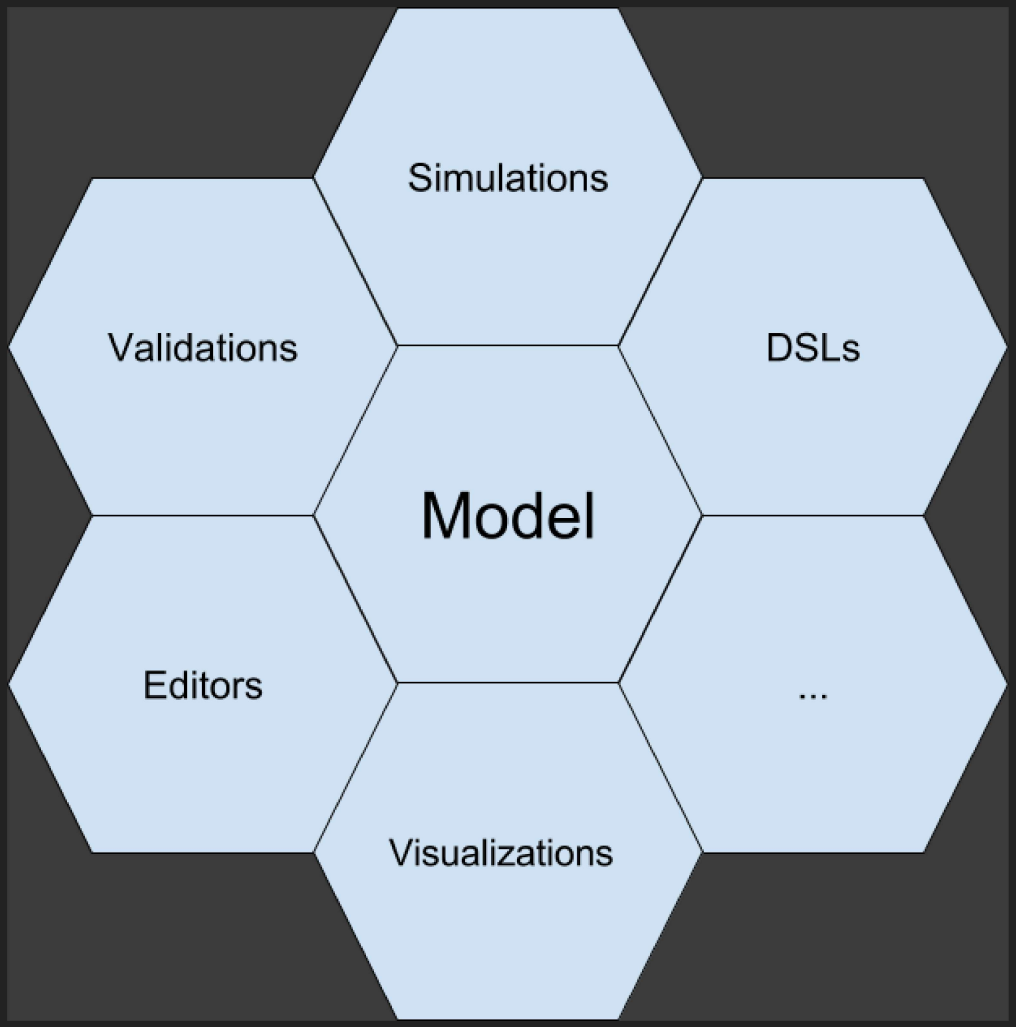
OPENPONK AS A PLATFORM

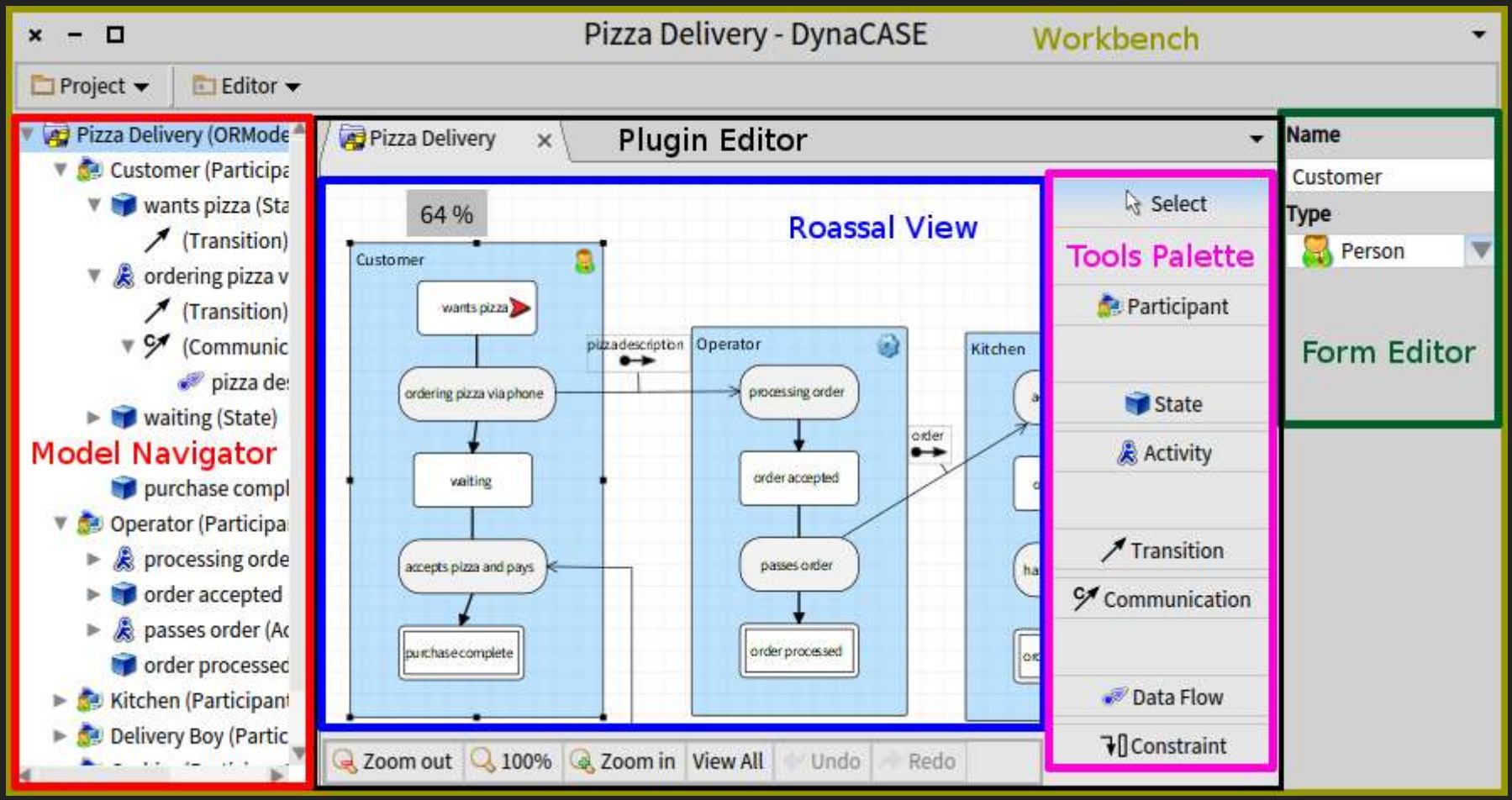
Build custom tools
for custom needs

building editors is hard,
we want to ease that burden

myriad of little things

BRING YOUR OWN ~~BEER~~ MODEL


Simulations
Validations
DSLs
Model
Editors
...
Visualizations


Pizza Delivery - DynaCASE
Workbench
Project
Editor
Pizza Delivery (ORMode
Customer (Participa
wants pizza (Sta
(Transition)
ordering pizza v
(Transition)
(Communic
pizza de
waiting (State)
Model Navigator
purchase compl
Operator (Participa
processing orde
order accepted
passes order (Ac
order processed
Kitchen (Participant
Delivery Boy (Partic
Pizza Delivery
Plugin Editor
64 %
Roassal View
Customer
wants pizza
ordering pizza via phone
waiting
accepts pizza and pays
purchase complete
pizzadescription
Operator
processing order
order accepted
passes order
order processed
order
Kitchen
Zoom out
100%
Zoom in
View All
Undo
Redo
Select
Tools Palette
Participant
State
Activity
Transition
Communication
Data Flow
Constraint
Name
Customer
Type
Person
Form Editor

RAPID DEMO

OPENPONK

MODELING PLATFORM

free

open-source (MIT)

openponk.github.io