Tafat

Model Driven Engineering (MDE) applied to complex simulations

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What is Tafat?
A framework for building simulators

How Tafat helps me to build a simulator?
It comes with a Domain Specific Language (DSL) and a simulation engine

Why is this helpful?
Simulators and simulations can be written using DSLs that are translated into code
Tafat modeling approach

Entity

Behavior

Behavior A

Behavior B

Person

Driver

Calm Driver

Aggressive Driver
Simulators and simulations

System
- Ac Hotel Building
- Triana Street
- Car 2344-XXX

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Application
- Building
- Street
- Car

City

Platform
- Entity
- Tafat

DSL

DSL
Behaviors

- Electrical Consumer
- Ac Hotel Building
- Water Consumer

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- Electrical Consumer
- Building
- Water Consumer

City

- Behavior

Tafat
Web page: http://bitbucket.org/intino/tafat-platform

Tafat

Tafat is a framework for building simulators based on a Model Driven Engineering (MDE) approach. This development is supported by Tara, a framework for building software based on MDE.

Tafat has been developed by SIANI and is released under GPL v3.0.

Get started

To use Tafat, you need to install IntelliJ. Once you have installed, please, install plugins available in the download section of this webpage: Tara and Legio.
How Tafat builds simulators?

Models are translated into runnable code (MDE approach)
MDE approach supported by Tara
What is Tara?
A framework for developing MDE based solutions

What is MDE?
Methodology oriented to build modular software based on models

Why is this helpful?
MDE allows to work a different levels of abstractions enhancing modularity (reuse)