



9th January 2020

# Modeling Comparison of WebGME and AtomPM Presentation

USE CASE: An Evacuation System BMOD

**PRESENTED BY**

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# MODELING IN WEBGME

- WEB-BASED
- PROTOTYPICAL INHERITANCE
- MULTI –TAB MODELING
- DYNAMIC SYSTEM
- VERSION CONTROL
- DIFFERENT MODEL VISUALIZATION

# WEB BASED

About

Try Now

White Paper

Tutorial

Wiki Docs

Source Code Docs

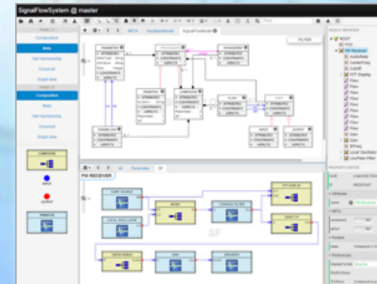
Available Extensions

Register

Log In

## Versatile & Generic

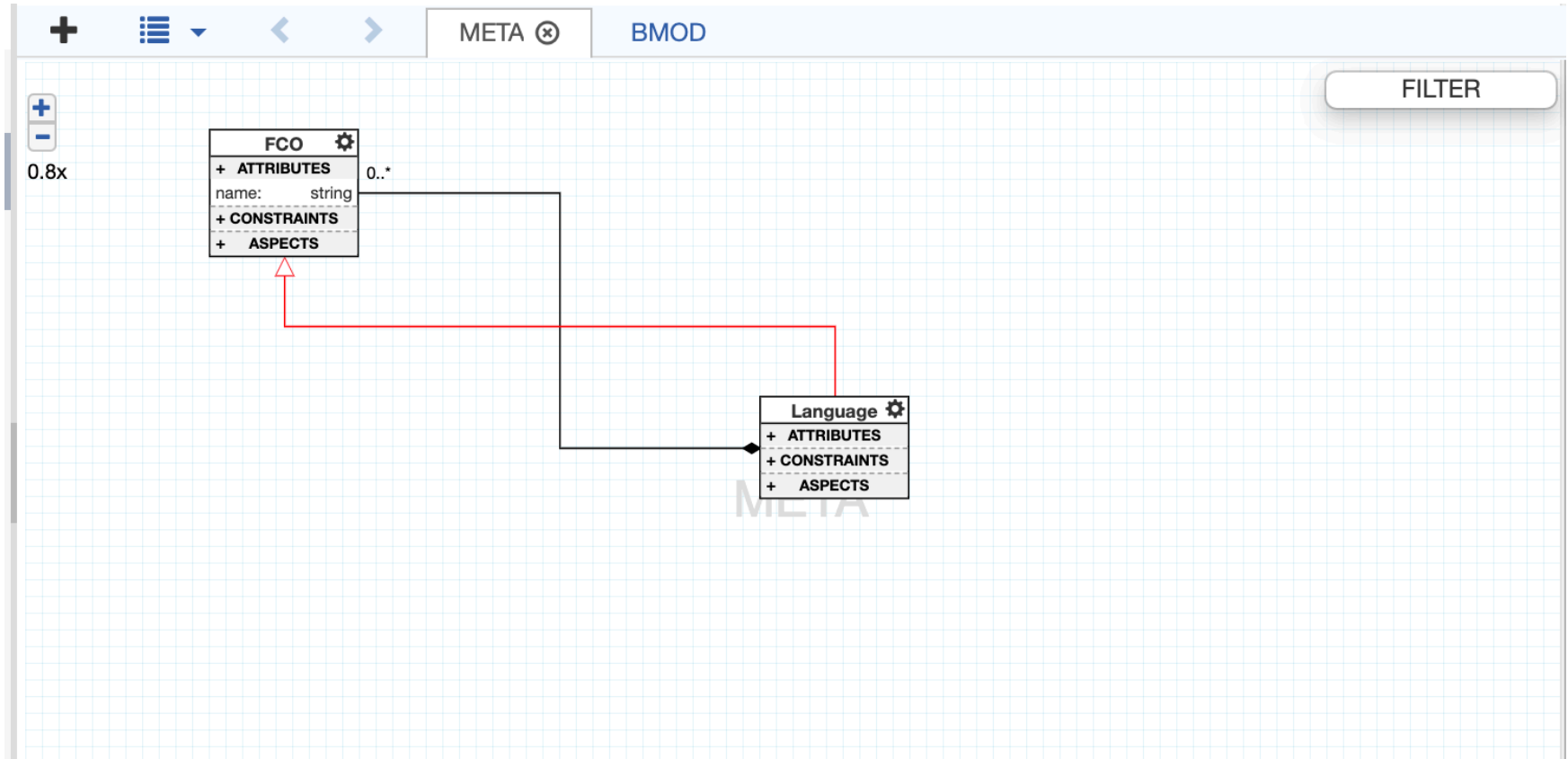
Create your own Domain Specific Modeling Language (DSML) right in the browser! Specify the modeling concepts, their relationships, attributes, and aspects by drawing a UML class diagram-based metamodel and WebGME automatically configures itself to support the DSML.



Try it now!



# PROTOTYPICAL INHERITANCE



# VERSION CONTROL

GME > ModelingBMOD > master > ROOT henrytirla

## Project Repository

All branches

Graph	Actions	Commit	Message	User	Time
		#8fa12b <span style="background-color: green; color: white; padding: 2px;">master</span> x deleteNodes(/e/x)		henrytirla	a day ago
		#d35a36 [ setAttribute(/e/t,Perception,"Listener") ]		henrytirla	a day ago
		#187165 [ setAttribute(/e/t,Action,"New Comer") ]		henrytirla	a day ago
		#b3d868 createChildren({"/e/J":"/i/O"})		henrytirla	2 days ago
		#ee0b8c createChildren({"/e/a":"/i/9"})		henrytirla	2 days ago
		#5e4f52 createChildren({"/e/F":"/i/I"})		henrytirla	2 days ago
		#fc1017 createChildren({"/e/G":"/i/H"})		henrytirla	2 days ago

Close

Composition META PROPERTY EDITOR

Set membership Attributes Pointers Meta Preferences

GUID 03d36072-9e09-786...

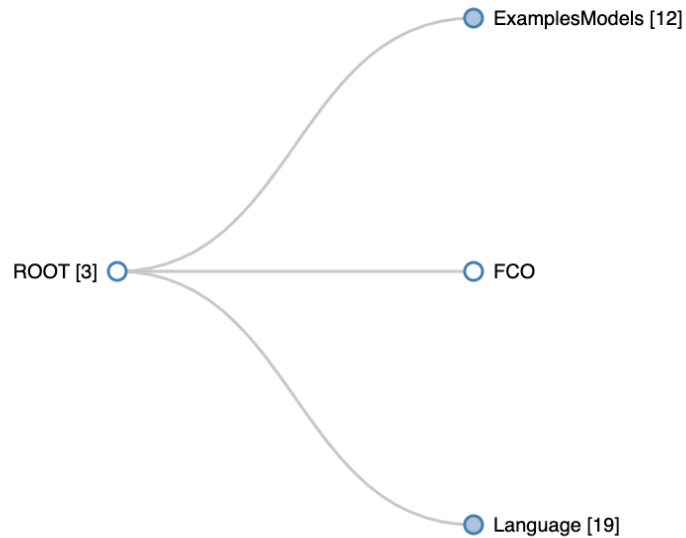
# DIFFERENT MODEL VISUALIZATION

## GRAPHICAL Visualizer

ROOT

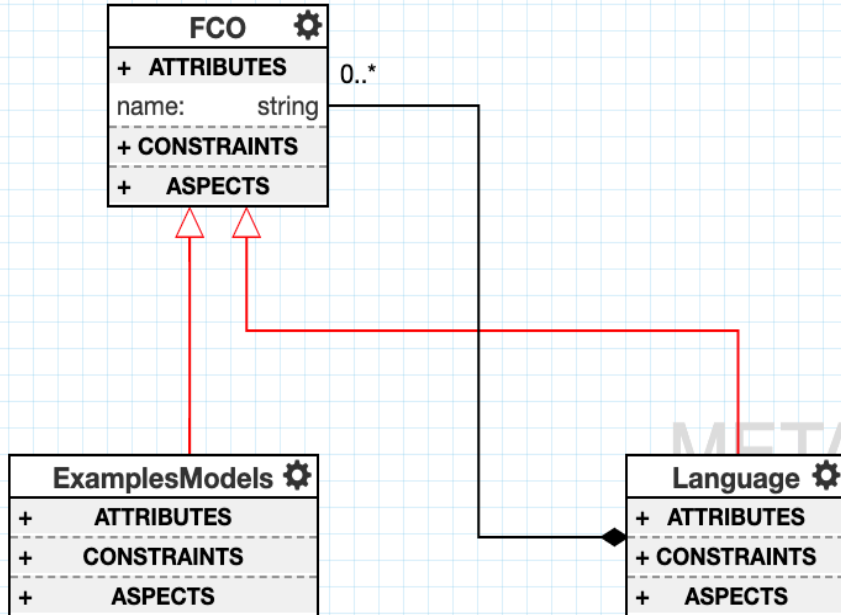


1x



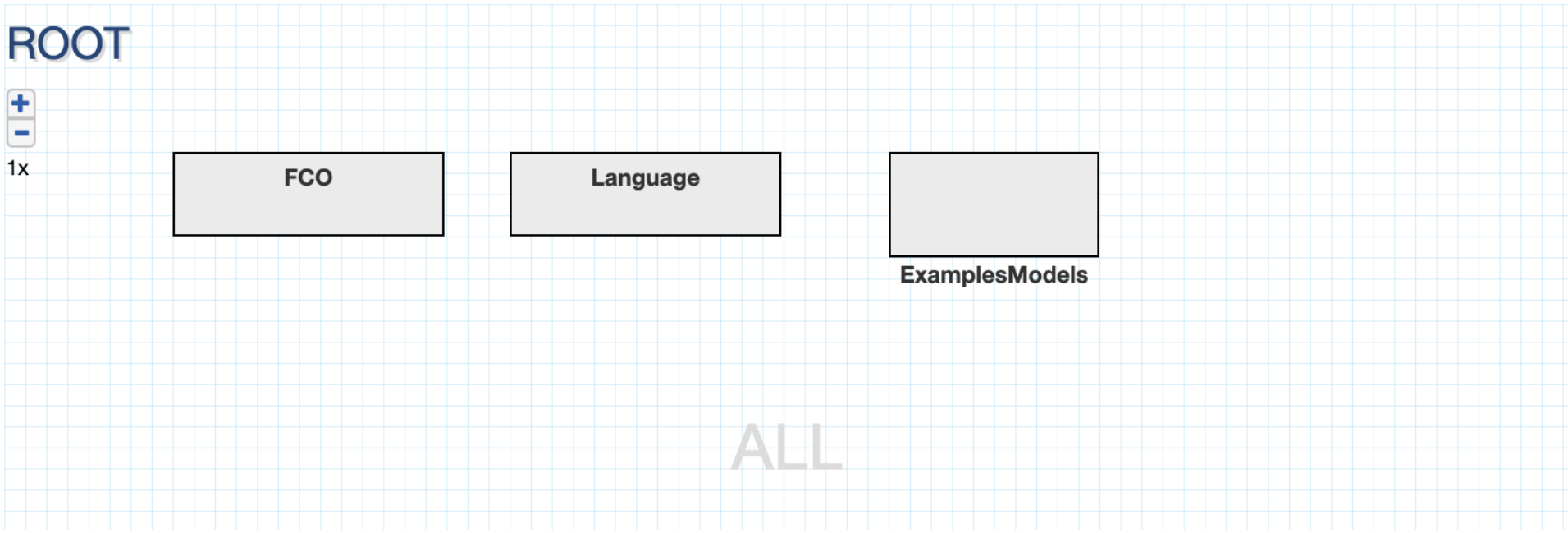
# META Visualizer

FILTER



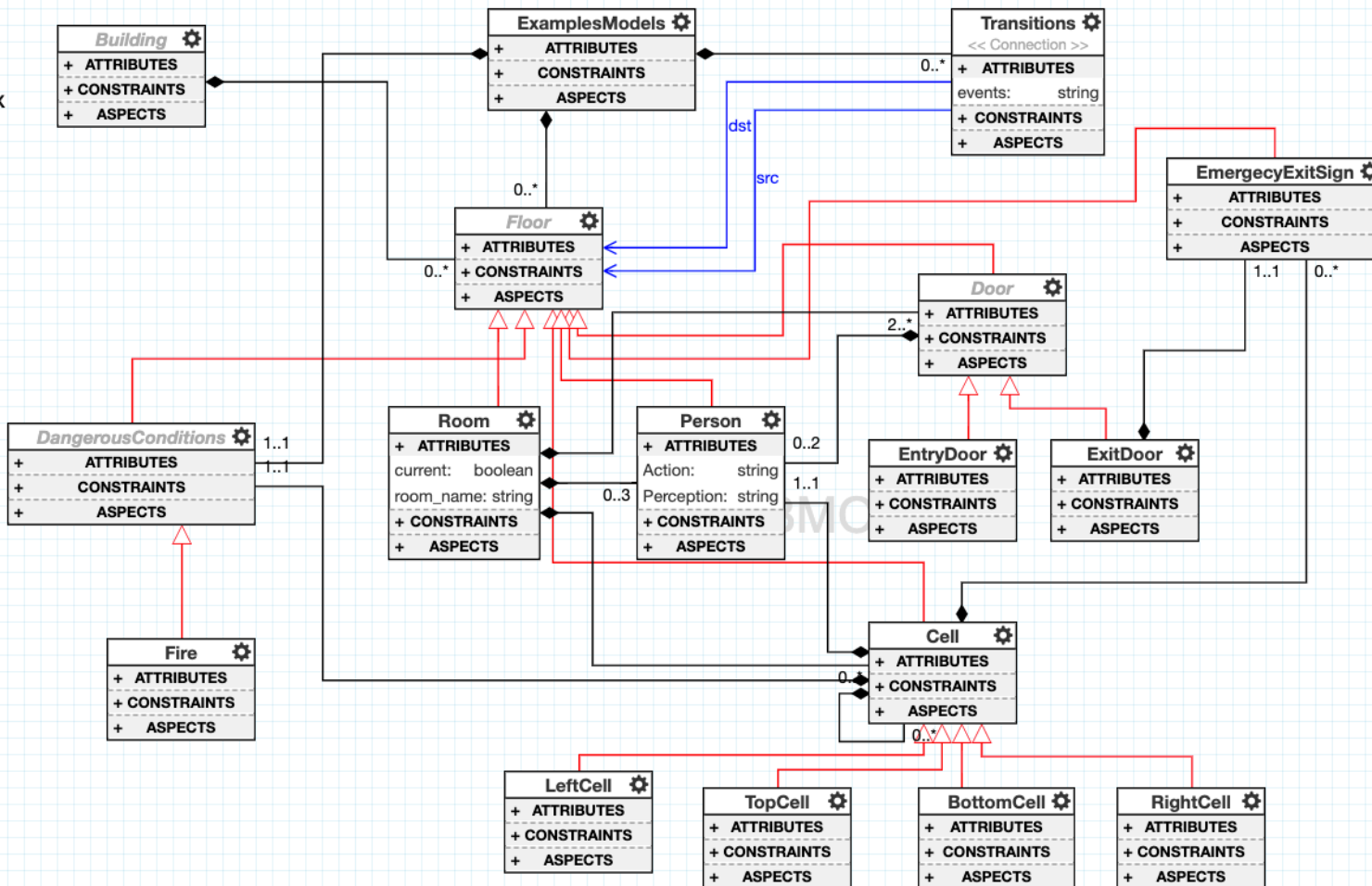


# COMPOSITE Visualizer

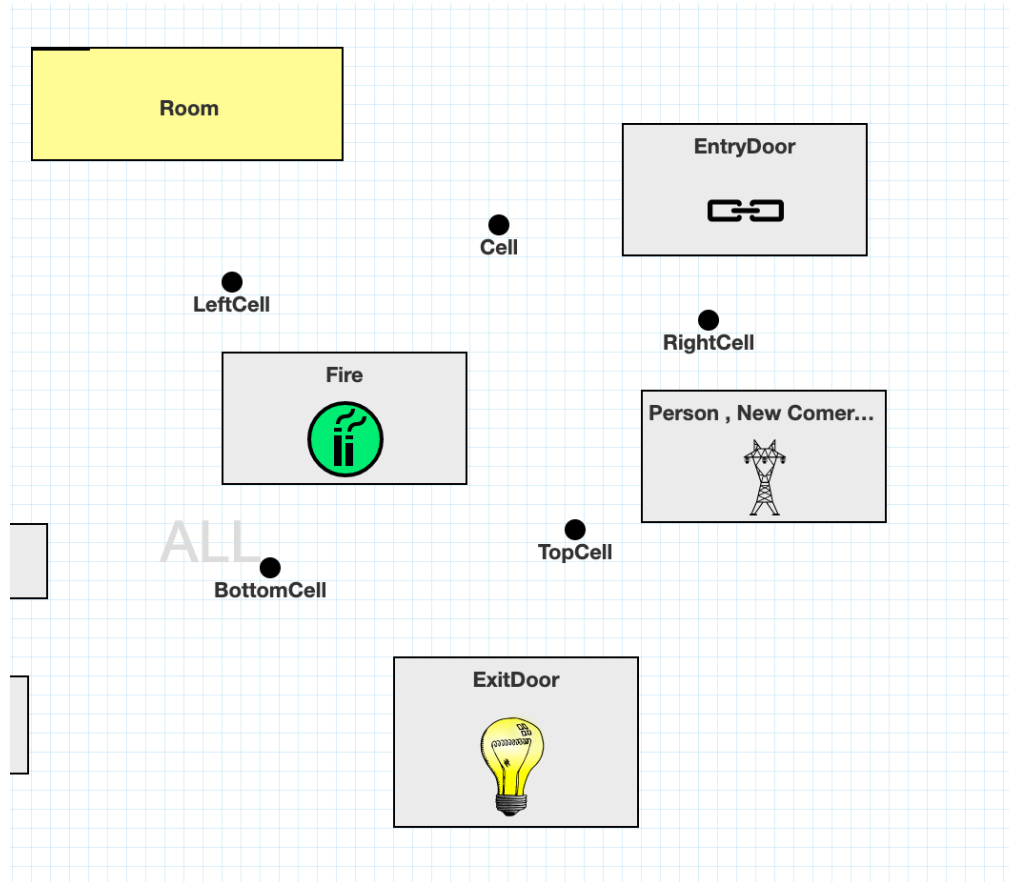


# BMOD LANGUAGE (Abstract Syntax)

FILTER



# BMOD LANGUAGE (Concrete Syntax)



# WEBGME VS ATOMPPM

## MERITS

- More Dynamic
- Version Control System
- Platform Independent
- Stable and Friendly User Interface
- Many Useful Resources Online
- Global Project Meta-Rules Check in One click

## DEMERITS

- Less Expressive
- Not so easy set-up for local Environment
- Limited to a certain scope in the design process of a project



QUESTIONS?