




## Model: Market

Name	Value
General	
Model time units	days
System Dynamics solver	
Differentiation Equations Method	Euler
Algebraic Equations Method	Modified Newton
Mixed Equations Method	RK45+Newton
Absolute accuracy	1.0E-5
Time accuracy	1.0E-5
Relative accuracy	1.0E-5
Fixed time step	0.001
Advanced	
Java package name	market
File Name	D:\Practicals\SIM Model\Market\Market.alp

## Agent Type: Main

Name	Value
Agent in flowcharts	
Use in flowcharts as	Agent
Dimensions and movement	
Speed	(10 : MPS)
Rotate animation towards movement	true
Rotate vertically as well (along Z-axis)	false
Space and network	
Space Type	Continuous
Dynamic: Width	500
Dynamic: Height	500
Dynamic: z Height	0
Layout Type	Random
Layout Type Apply On Startup	true
Network type	User-defined
Network Type Apply On Startup	true
Enable steps	false
Advanced Java	
Generic	false
Advanced	
Logging	true
Auto-create datasets	true
AOC_DATASETS_UPDATE_TIME_PROPERTIES	- Recurring Event Properties
Limit the number of data samples	false

 connections

 consumers [...] 

## Scale: scale

Name	Value
General	
Unit	meters
Scale	10.0
Type	Defined graphically
Length, pixels	100.0
Show at runtime	false
Lock	false
Public	false
Position and size	
x	0.0
y	-150.0
Rotation	0.0

## Agent Presentation: consumers\_presentation

Name	Value
General	
Show at runtime	true
Public	true
Position and size	
x	160.0
y	50.0
z	0.0
Rotation	0.0
Scale	Automatically calculated
Advanced	
Show in	2D and 3D
Draw agent with offset to this position	true
Show name	false

## Link to agents: connections


Name	Value
General	
Show at runtime	true
Show name	true
Communication	
Message type	Object
Animation	
Draw line	false


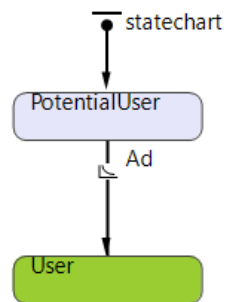
## Agent Type: Consumer

Name	Value
Agent in flowcharts	
Use in flowcharts as	Agent
Dimensions and movement	

Name	Value
Speed	(10 : MPS)
Rotate animation towards movement	true
Rotate vertically as well (along Z-axis)	false
Space and network	
Space Type	Continuous
Advanced Java	
Generic	false
Advanced	
Logging	true
Auto-create datasets	true
AOC_DATASETS_UPDATE_TIME_PROPERTIES	- Recurring Event Properties
Limit the number of data samples	false

 main

 connections

 AdEffectiveness


## Scale: scale

Name	Value
General	
Unit	meters
Scale	10.0
Type	Defined graphically
Length, pixels	100.0
Show at runtime	false
Lock	false
Public	false
Position and size	
x	0.0
y	-150.0
Rotation	0.0

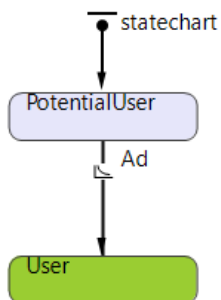
## Parameter: AdEffectiveness

Name	Value
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Name	Value
General	
Array	false
Type	double
Show at runtime	true
Show name	true
Value editor	
Editor control	Text
Advanced	
System dynamics units	false
Save in snapshot	true

## Statechart Entry Point: statechart

Name	Value
General	
Logging	true
Show at runtime	true
Show name	true



## Transition: Ad

Name	Value
General	
Rate	(AdEffectiveness : PER_DAY)
Trigger type	Rate
Show name	true

## State: PotentialUser

Name	Value
General	
Entry action	shapeBody.setFillColor(lavender);
Fill color	lavender
Show name	true

## State: User

Name	Value
General	

Name	Value
Entry action	shapeBody.setFillColors(yellowGreen);
Fill color	yellowGreen
Show name	true

## Group: person

Name	Value
General	
Show at runtime	true
Lock	false
Embedded icon	false
Public	true
Position and size	
x	0.0
y	0.0
z	0.0
Rotation	0.0
Advanced	
Show in	2D only
Show name	false

## Curve: shapeBody

Name	Value
General	
Polyline closed	true
Show at runtime	true
Lock	false
Public	true
Appearance	
Fill color	black
Line width	1.0
Line style	SOLID
Position and size	
x	-2.0
y	-7.0
Advanced	
Control points are set automatically	true
Show name	false

## Link to agents: connections

Name	Value
General	
Show at runtime	true
Show name	true
Communication	

Name	Value
Message type	Object
Animation	
Draw line	false

## Simulation Experiment: Simulation

Name	Value
General	
Bypass Initial Simulation Screen	true
Maximum available memory	512
Agent type	Main
Model time	
Execution mode	Real time with scale
Real time scale	1.0
Stop option	Never
Initial time	0.0
Initial date	Sat Dec 10 00:00:00 GMT 2022
Randomness	
Random Number Generation Type	Fixed seed (reproducible simulation runs)
Seed value	1
Window	
Title	Market : Simulation
Enable zoom and panning	true
Enable developer panel	true
Show developer panel on start	false
Advanced	
Load root from snapshot	false

## Market

### Text: text

Name	Value
General	
Show at runtime	true
Lock	false
Text	
Text	Market
Appearance	
Color	royalBlue
Alignment	LEFT
Position and size	
x	50.0
y	30.0
z	0.0
Rotation	0.0
Advanced	

Name	Value
Show name	false