Bullet Physics Simulation

Physic: Bullet Integration into A:M

As a replacement for the "Newton Physics" plug-in the <u>Bullet Physics Engine</u> is now integrated in Animation:Master.

It is implemented as a Constraint ("Bullet Body") for <u>dynamic objects</u> and properties for <u>static objects</u>. Both are available for models and props.

The old "Rigid Body" constraint is still available, because it's used also in other situations (dropping anything into a choreography etc.).

To start a simulation You must add as minimum one "Bullet Body" constraint to a model, bone of a model or prop and than

select the choreography -> Right Mouse Button -> hit in the pop-up menu "Simulate Bullet"

Remark: The simulation starts at the current choreography time.

If You want to remove the simulation data select the choreography -> Right Mouse Button -> hit in the pop-up menu "Remove Simulation Data"

To view detailed descriptions for each propertie , select the propertie -> RMB -> "Display help for the current property" or let the "Property Info" window open (toogling with Alt-7)

Some options for the simulation are reused from the "Dynamic" property in the choreography.

- **thisrise** the gravity and direction of gravity, where "Y -100%" is the earth gravity (9.80665 m/s2) in the negative Y Axis
- I'Rterds: ctuomblem or grodetentean zero, then after the simulation the resulting channels will be reduced. This number will represent the maximum error that will be permitted in the newly reduced channel.

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