

Car script

Written by Adalace Jewell -

```
// Script that controls a car or other land-based vehicles in Second Life.      // Retrieved from
Free SL Scripts on http://www.gendersquare.org/sl
// Encog's Magic Wagon
// Very simple vehicle script
```

```
float forward_power = 15; //Power used to go forward (1 to 30)
float reverse_power = -15; //Power used to go reverse (-1 to -30)
float turning_ratio = 2.0; //How sharply the vehicle turns. Less is more sharply. (.1 to 10)
string sit_message = "Ride"; //Sit message
string not_owner_message = "You are not the owner of this vehicle ..."; //Not owner message
```

```
default
```

```
{
    state_entry()
    {
        //SetSitText(sit_message);
        // forward-back,left-right,updown
        //SitTarget(<0.2,0,0.45>, ZERO_ROTATION );

        //SetCameraEyeOffset(<-8, 0.0, 5.0>);
        //SetCameraAtOffset(<1.0, 0.0, 2.0>);

        //PreloadSound("car_start");
        //PreloadSound("car_run");

        //car
        //SetVehicleType(VEHICLE_TYPE_CAR);
        //SetVehicleFloatParam(VEHICLE_ANGULAR_DEFLECTION_EFFICIENCY, 0.2);
        //SetVehicleFloatParam(VEHICLE_LINEAR_DEFLECTION_EFFICIENCY, 0.80);
        //SetVehicleFloatParam(VEHICLE_ANGULAR_DEFLECTION_TIMESCALE, 0.10);
        //SetVehicleFloatParam(VEHICLE_LINEAR_DEFLECTION_TIMESCALE, 0.10);
        //SetVehicleFloatParam(VEHICLE_LINEAR_MOTOR_TIMESCALE, 1.0);
        //SetVehicleFloatParam(VEHICLE_LINEAR_MOTOR_DECAY_TIMESCALE, 0.2);
        //SetVehicleFloatParam(VEHICLE_ANGULAR_MOTOR_TIMESCALE, 0.1);
        //SetVehicleFloatParam(VEHICLE_ANGULAR_MOTOR_DECAY_TIMESCALE, 0.5);
        //SetVehicleVectorParam(VEHICLE_LINEAR_FRICTION_TIMESCALE, <1000.0, 2.0,
1000.0>);
        //SetVehicleVectorParam(VEHICLE_ANGULAR_FRICTION_TIMESCALE, <10.0, 10.0,
1000.0>);
        //SetVehicleFloatParam(VEHICLE_VERTICAL_ATTRACTION_EFFICIENCY, 0.50);
        //SetVehicleFloatParam(VEHICLE_VERTICAL_ATTRACTION_TIMESCALE, 0.50);
    }

    changed(integer change)
    {
```

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```
if (change & CHANGED_LINK)
{
    key agent = llAvatarOnSitTarget();
    if (agent)
    {
        if (agent != llGetOwner())
        {
            llSay(0, not_owner_message);
            llUnSit(agent);
            llPushObject(agent, <0,0,50>, ZERO_VECTOR, FALSE);
        }
        else
        {
            llTriggerSound("car_start",1);

            llMessageLinked(LINK_ALL_CHILDREN , 0, "WHEEL_DRIVING", NULL_KEY);
            llSleep(.4);
            llSetStatus(STATUS_PHYSICS, TRUE);
            llSleep(.1);
            llRequestPermissions(agent, PERMISSION_TRIGGER_ANIMATION |
PERMISSION_TAKE_CONTROLS);

            llLoopSound("car_run",1);
        }
    }
    else
    {
        llStopSound();

        llSetStatus(STATUS_PHYSICS, FALSE);
        llSleep(.4);
        llReleaseControls();
        llTargetOmega(<0,0,0>,PI,0);

        llResetScript();
    }
}

run_time_permissions(integer perm)
{
    if (perm)
```

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```
{
    IITakeControls(CONTROL_FWD | CONTROL_BACK | CONTROL_DOWN |
CONTROL_UP | CONTROL_RIGHT |
        CONTROL_LEFT | CONTROL_ROT_RIGHT | CONTROL_ROT_LEFT,
TRUE, FALSE);
}

control(key id, integer level, integer edge)
{
    integer reverse=1;
    vector angular_motor;

    //get current speed
    vector vel = IIGetVel();
    float speed = IIVecMag(vel);

    //car controls
    if(level & CONTROL_FWD)
    {
        IISetVehicleVectorParam(VEHICLE_LINEAR_MOTOR_DIRECTION,
<forward_power,0,0>);
        reverse=1;
    }
    if(level & CONTROL_BACK)
    {
        IISetVehicleVectorParam(VEHICLE_LINEAR_MOTOR_DIRECTION,
<reverse_power,0,0>);
        reverse = -1;
    }

    if(level & (CONTROL_RIGHT|CONTROL_ROT_RIGHT))
    {
        angular_motor.z -= speed / turning_ratio * reverse;
    }

    if(level & (CONTROL_LEFT|CONTROL_ROT_LEFT))
    {
        angular_motor.z += speed / turning_ratio * reverse;
    }

    IISetVehicleVectorParam(VEHICLE_ANGULAR_MOTOR_DIRECTION, angular_motor);

} //end control
```

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} //end default