

RCC_WheelCollider

Public Variables

```
// Car controller.  
public RCC_CarControllerV3 CarController;  
  
// WheelCollider.  
public WheelCollider WheelCollider;  
  
public Transform wheelModel; // Wheel model for animating and aligning.  
  
public WheelHit wheelHit; // Wheelhit data.  
  
public bool isGrounded = false; // Is wheel grounded or not?  
  
public int groundIndex = 0; // Current ground index of wheelhit.  
  
public bool alignWheel = true; // Align the wheelmodel with wheelcollider position and rotation.  
  
public bool drawSkid = true; // Draw skidmarks.  
  
// Locating correct position and rotation for the wheel.  
public Vector3 wheelPosition = Vector3.zero;  
  
public Quaternion wheelRotation = Quaternion.identity;  
  
public bool canPower = false; // Can this wheel apply power?  
public float powerMultiplier = 1f;  
  
public bool canSteer = false; // Can this wheel apply steer?  
public float steeringMultiplier = 1f;  
  
public bool canBrake = false; // Can this wheel apply brake?  
public float brakingMultiplier = 1f;  
  
public bool canHandbrake = false; // Can this wheel apply handbrake?  
public float handbrakeMultiplier = 1f;  
  
public float wheelWidth = .275f; // Width of the wheel.  
  
public float wheelOffset = 0f; // Offset by X axis.  
  
public float camber = 0f; // Camber angle.  
public float caster = 0f; // Caster angle.  
public float toe = 0f; // Toe angle.
```

```

//      Slips
public float wheelSlipAmountForward = 0f;    // Forward slip.
public float wheelSlipAmountSideways = 0f; // Sideways slip.
public float totalSlip = 0f;           // Total amount of forward and sideways slips.

// List for all particle systems.
public List<ParticleSystem> allWheelParticles = new List<ParticleSystem>();

//      Trances used for smooth drifting.
public float tractionHelpedSidewaysStiffness = 1f;

// Getting bump force.
public float bumpForce, oldForce, RotationValue = 0f;

public float deflateRadiusMultiplier = .8f; // Deflated radius multiplier. Radius of the wheelcollider
will be multiplied by this value on deflate.

public float deflatedStiffnessMultiplier = .5f; // Deflated stiffness of the wheelcollider.

```

Public Methods

```

/// Returns true if one of the wheel is slipping.
public bool IsSkidding() {}

/// Applies the motor torque.
public void ApplyMotorTorque(float torque) {}

/// Applies the steering.
public void ApplySteering(float steerInput, float angle) {}

/// Applies the brake torque.
public void ApplyBrakeTorque(float torque) {}

/// Deflates the wheel.
public void Deflate() {}

/// Inflates the wheel.
public void Inflate() {}

```