The Pdf file is a documentation of Arcade Vehicle Physics. And Arcade Vehicle Ai is based on same phycics for Ai. so everything is same except: For questions or problems join discord : https://discord.com/invite/sEWwDGr There are 2 extra veriables: For Better vehicle physics check out Ash Vehicle Physics: http://u3d.as/2ktP 1.target(Ai will follow this Transform), 2.Brake angle(minimum angle between target direction and car forward direction at which car will apply brake) Also watch tutorial from store page.

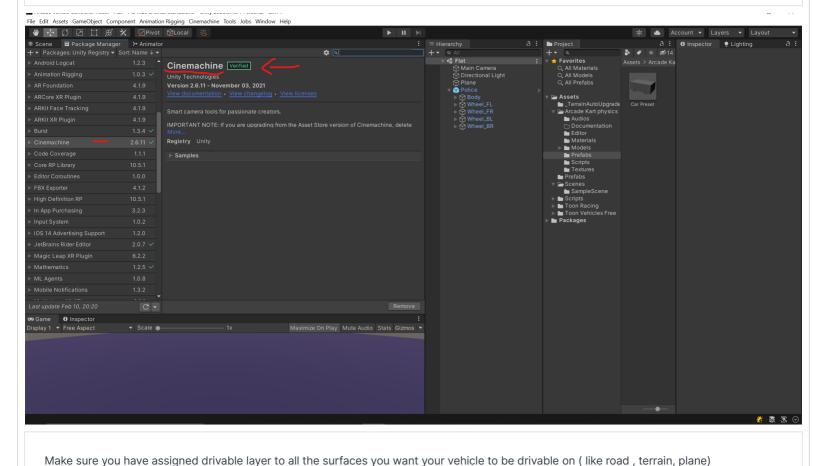
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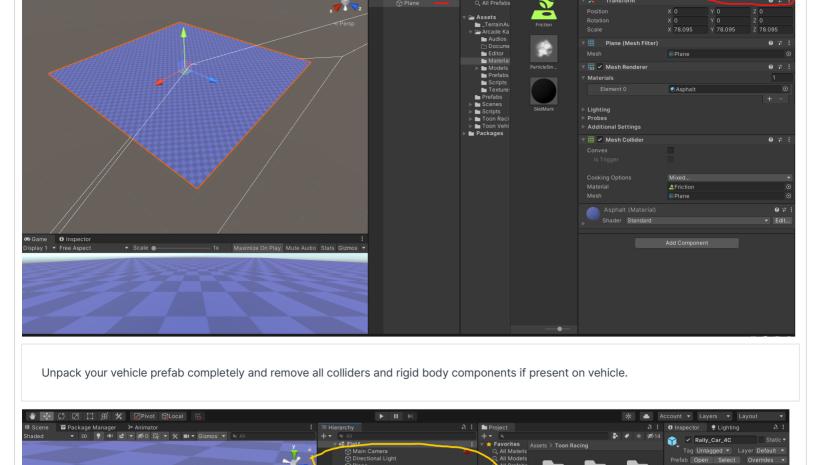
Scene ■ Package Manager ➤ Animator

Project Settings

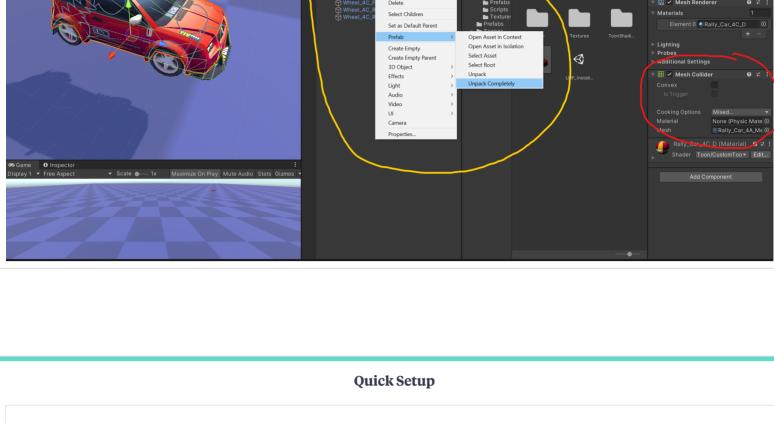
First of All Make sure you have Cinemachine package installed. By going to package manager in unity registry and searching cinemachine.



Scene ☐ Package Manager > Animator
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Duplicate



Drag and drop any of the presets from prefab folder to vehicle preset slot in Arcade vehicle creator window

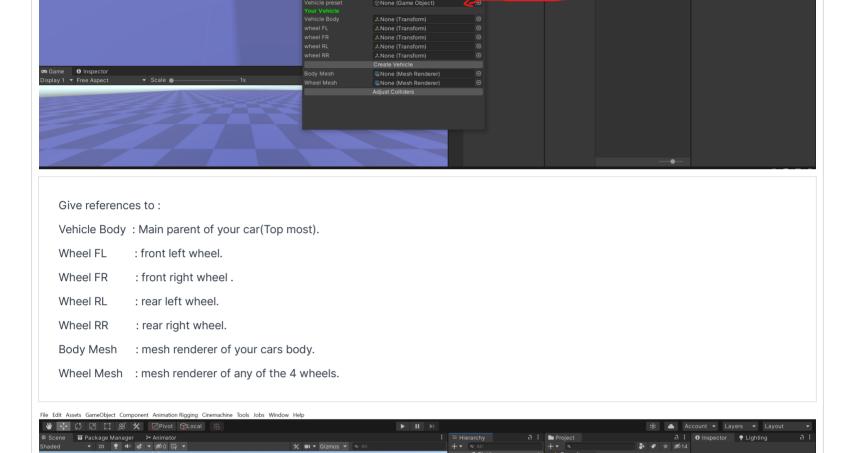
Go to tools and open Arcade vehicle physics.

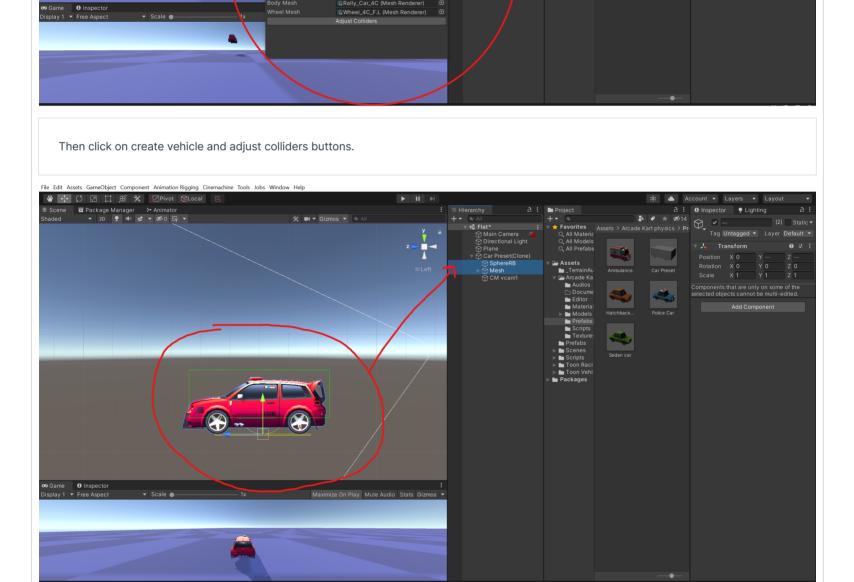
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File Edit Assets GameObject Component Animation Rigging Cinemachine Tools Jobs Window Help

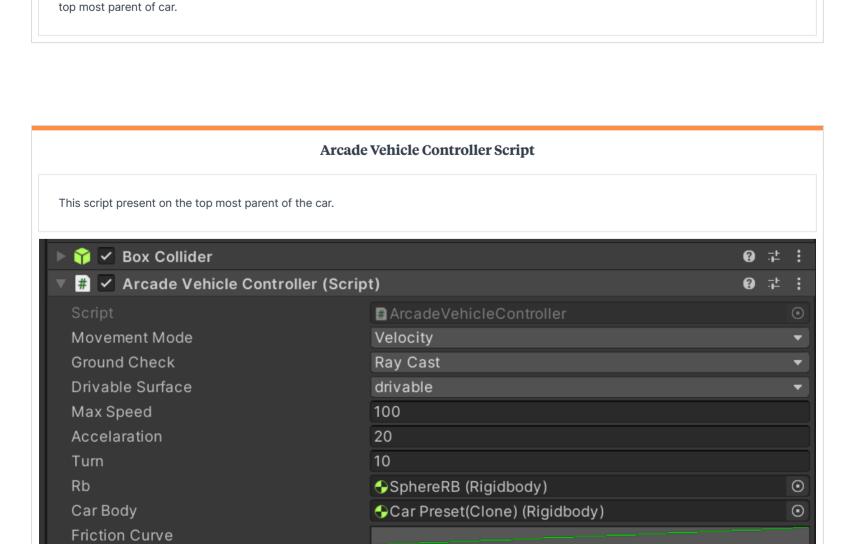




Now if your vehicle body is not aligning with the green box(box collider), select the SphereRB and Mesh gameobject and move both at the

same time so that the body is inside the box collider.

Now hit play and play around with the values in Arcade vehicle controller script present on the



Friction

→ Body (Transform)

Add Component

Car Preset(Clone) (Audio Source)

Car Preset(Clone) (Audio Source)

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You only need to worry about These parameters : -

Turn Curve

Visuals Body Mesh

Friction Material

Front Wheels

Audio settings Engine Sound

> Rigidbody ✓ Audio Source

Audio Source

Rear Wheels

Body Tilt

Min Pitch

Max Pitch Skid Sound

Movement Mode

Friction Curve

Ground Check : raycast or spherecast method to ground detection.(for plane roads use raycast, for terrain like surfaces use spherecast **Drivable surface** : layer that you want your vehicle to be drivable on.

: Velocity or angular velocity. (SphereRB will reach max Velocity or angular velocity)

: on this curve ${\bf x}$ axis is cars sideways velocity, ${\bf y}$ axis is friction material's Dynamic friction.

Turn Curve : on this curve x axis is cars forward velocity, y axis is Torque should be applied to turn vehicle. : how much car body should lean while turning. **Body Tilt** : Audio source of engine sound. you can change engine audio clip but it should be loopable. **Engine Sound**

Max Speed , acceleration , turn are self explanatory. just play around with these values.

Min Pitch : Minimum pitch of engine sound (at 0 speed). **Max Pitch** : Maximum pitch of engine sound (at Max speed). **Skid Sound** : Audio source of skid sound.