Dirty Derby: Game Prototype - Game Programming Lab 2009

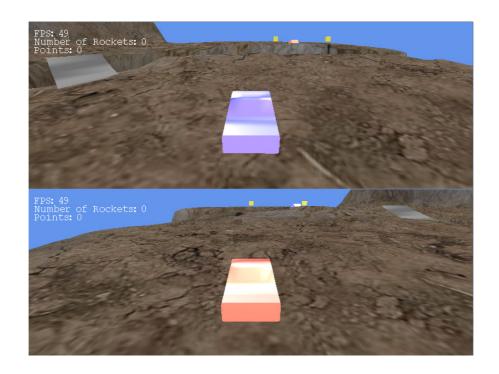
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This document describes the development of the game prototype. It can be partitioned into three parts.

1. Gameplay

To test the game play, we inserted the most elementary concepts of our game into a simple environment. The following features are implemented in the game prototype:

- Two players play against each other by using split screens.
- We implemented a very simple death match mode. The two players start with zero points.
 There are items you can collect (yellow cubes on the screenshot below) to get points; if you
 fall from the platform you lose points. The winner of the game is the player that reaches a
 specific number of points.
- You can push the other player off of the platform by driving against his car.
- Each player can shoot missiles. If you hit the other player, you can push him off the platform.
- There is the possibility to place mines with an effect similar to the missiles.



2. Car Physics

For the physics, we use the BulletX physics engine. At this step, the cars interact with cubic collision boxes with the terrain.

3. Environment

At this development step, the environment consists only of a terrain built from a height map. We load the height values from a (gray scale) bitmap and set the height values of the terrain accordingly.

It is also possible to load a texture and attach it to the terrain.

