

Exercise Files

Starter – "Kit/gpgt/server/scripts/gpgt/chapter7/exercise006.cs"

Answers – "Kit/gpgt/server/scripts/gpgt/chapter7/answers/exercise006_f.cs"

Exercise Mission

Chapter 7: "006 AIPlayer: Variable speed #1"

Synopsis

In this exercise, we will learn how to set a bot's initial movement speed to some arbitrary fraction of its full speed.

Prerequisites

1. ch1_001.pdf "Using The Kit"

Exercises

- 1. Add Dynamic Field to Datablock (pg 2)
- 2. Setting Initial Speed (pg 3)

AIPLAYER: VARIABLE SPEED #1

1 Add Dynamic Field to Datablock

Goal: Use the bot's datablock to hold speed information about our bot using a dynamic field.

Starter Code: You are provided with a partially defined datablock definition (variableSpeedBotA).
datablock PlayerData(variableSpeedBotA : BlueGuy)
{
 category = "gpgt";
 //maxAISpeed = ?????
};

Steps: Please uncomment the maxAISpeed dynamic field declaration and set it to 25% of the bots maximum speed.

Output Goal:

None.

Hints:

1. This value has nothing to do with the persistent speed fields. We're talking about a relative speed.

AIPLAYER: VARIABLE SPEED #1

2 Setting Initial Speed

Goal: Learn to use one of the bot's callbacks to set an initial speed for this bot.

Starter Code: You are provided with a partially defined method whose name is not given, but that is scoped to the bot's datablock namespace.

Steps:

- 1. Please uncomment the body (remove /* and */ around the code. Then, please decide which callback this is and replace ????? with the correct callback name.
- 2. Please add the code needed to set this bots speed to the value stored in its datablock (from the work we did above.)

Output Goal:

If you run the mission after editing this code, the AIPlayer will walk in a circle, following the path, and will only move at a rate of 25% of its maximum rate.

Questions:

1. What would happen if we tried to set the rate to 250%?