

Introduction to Game Mode















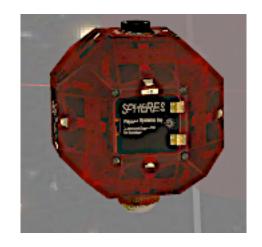


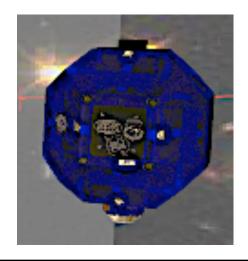






- In this tutorial you will learn:
 - How to use game mode to start writing programs for this year's high school game
 - How to compete against a standard player

























Welcome to Game Mode



- So far in these tutorials, you have been writing your programs in Free Mode"
- Now that you are ready to start writing programs for a competition, you will switch to the appropriate game mode
- All code for the game must be written in the appropriate Game Mode

Let's get started!

















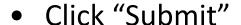


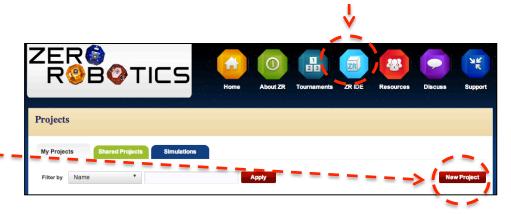


Creating a Project in Game Mode



- Select light blue "ZR IDE" SPHERES icon on top ribbon
- Select "New Project"
- In the popup window enter:
 - Project Name
 - Enter an name. Example: TeamABC1
 - Game
 - Select the name of this year's game (ask your teacher!)
 - **Initial Editor**
 - Select "Text Editor"























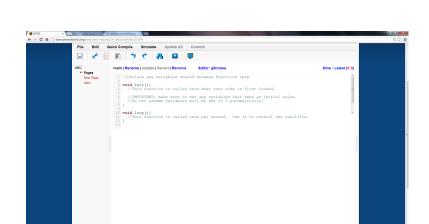


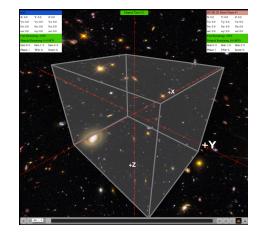


Introduction to Game Mode



- The text editor environment for the selected game mode will look similar to what you have seen in Free Mode
- In game mode you will be able to use commands specific to the game
- The simulation will also look different!
- Want to take a peek?
 - You don't need to create any code
- Click on Simulate
- On the Simulation Settings Window:
 - Load Settings:
 - Select "Create new"
 - Enter a name for the settings
 - Leave everything else as is
 - Click "Run"
 - Select "View Simulation"























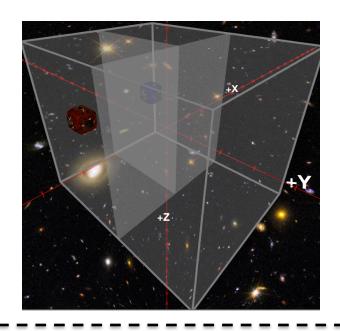


Introduction to Game Mode, continued



- When you click the arrow to start the simulation you will see the initial positions for the two satellites.
- Nothing else will happen because you have not written any code yet.

- Take a look at the scoring boxes.
 - Some extra, game-specific information is included
 - Based on your knowledge of the game, can you see why the information is there?
- Close the simulation window



test4		
X: 0.0	Y: 0.0	Z: 0.0
Vx: 0.0	Vy: 0.0	Vz: 0.0
Nx: 0.0	Ny: 0.0	Nz: 0.0
ωx: 0.0	ωy: 0.0	ωz: 0.0
Fuel Rema	ining: 100%	
Material R	emaining: 0.4	418879
Item 0: 0	Item 1:0	Item 2: 0
Phase: 1	TFin: 0.	Score: 0.
		1000

Note: These images are game specific and will vary from year to year

















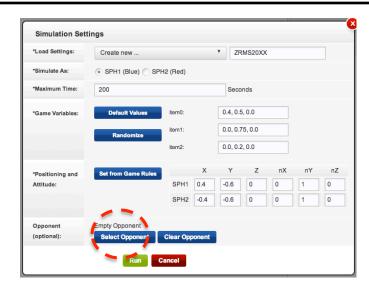




Playing a Standard Player



- Another feature of game mode is that you can test your code against "standard players" (preprogrammed opponents)
- Even though you don't have any code to test yet, you can try it right now
- From the Text Editor window click on "Simulate"
 - Load Settings:
 - Select the setting you just created
 - Leave everything else as is except opponent
 - Click "Select Opponent"
 - In the pop-up window under OPPONENT CATEGORY click on "Standard Players"
 - Click on one of the players that show up under PROJECT NAME
 - Click Select























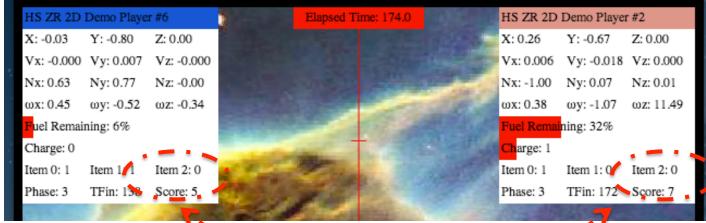


Playing a Standard Player, continued



- Run and View Simulation!
- You will see:
 - The opponent moves though the game course
 - Elements of the game appear
 - Your SPHERE remains stationary since you have not created any code
- Check the scoring boxes at the end of the match to see how well the opponent scored

Note: Image below is game specific and will vary from year to year



Blue sphere: 5 vs Red Sphere: 7





















Review



- Congratulations!
 - You have learned how to select the appropriate game mode to create a project for your game
 - You have learned how to test your code against a standard player
- Now it is time to get started! Have fun writing code!

















