

# Introduction to Game Mode















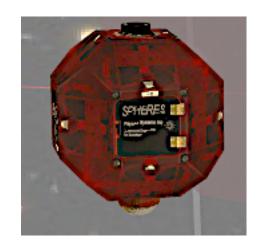


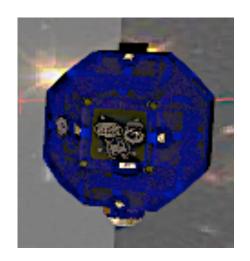






- In this tutorial you will learn:
  - How to use the Game Mode to start writing programs for this year's Middle School Game!
  - How to compete against a standard player

























#### Welcome to Game Mode



- So far, to complete tutorials, you have been writing your programs in "Free Mode"
- Now that you are ready to start writing programs for the Middle School Summer Program Game 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...!!

















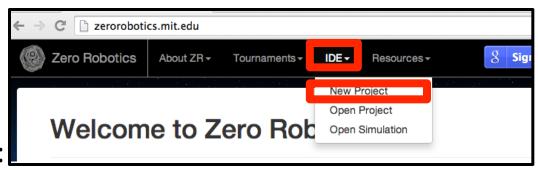


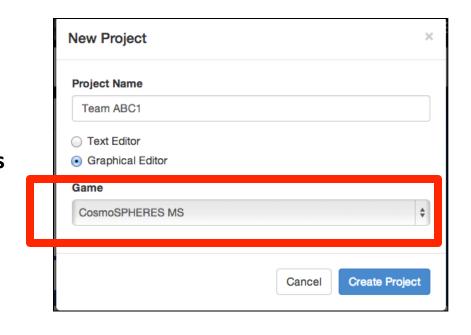


## Creating a Project in Game Mode



- Select the IDE drop down menu on top ribbon
- Select "New Project":
- In the popup window enter:
  - Project Name
    - Enter an name. Example: Team ABC1
  - Select "Graphical Editor"
  - Game
    - Select the name of this year's game (ask your teacher!)
- Click "Create Project"





















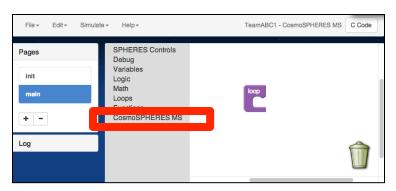


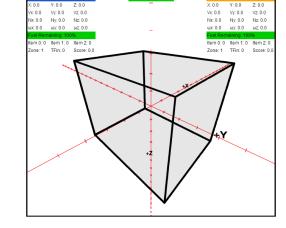


#### Introduction to Game Mode



- The Graphical Editor environment for the selected "Game Mode" will look similar to what you have seen in "Free Mode"
- There will be extra accordions on the screen with commands specific to the game
- The simulation, however, will look different!
- Want to take a peak?
  - You don't need to create any code
- Click "Simulate" from the menu on the top ribbon
- On the Simulation Settings Window:
  - Leave everything else "as-is"
  - Click "Simulate"
- Select "View Results"























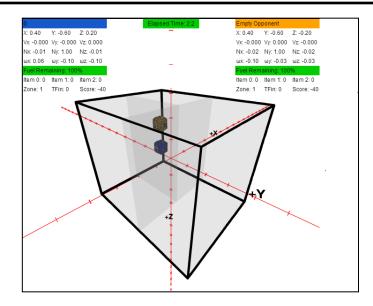


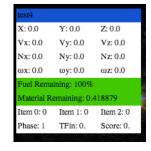
## Introduction to Game Mode, continued



- 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 understanding of the game, can you guess why the information is there?
- Close the simulation window





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

















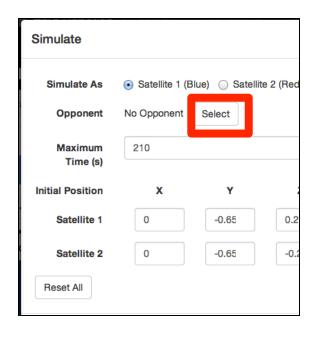




## Playing a Standard Player



- Another feature of "Game Mode" is that you sometimes have the option to test your code against "Standard Players"
- Even though you don't have any code to test yet, you can try it right now
- From the Graphical Editor select "Simulate" from the top ribbon menu
  - Leave everything else "as-is" except opponent
  - Click "Select Opponent"
    - In the project window look for a shared project labeled "Standard Player" for your game
    - Click the check box
    - Click on Select













TITLE



Standard Player 2 - CosmoSPHERES MS

Standard Player 1 - CosmoSPHERES MS





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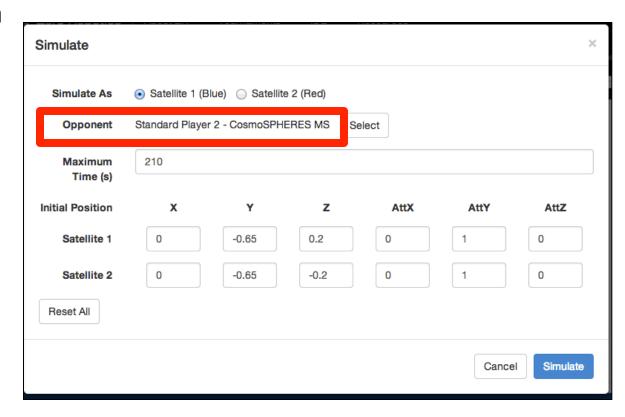




# Playing a Standard Player, continued



- The name of the opponent will appear on the Simulation settings window
- Simulate and View Results!





















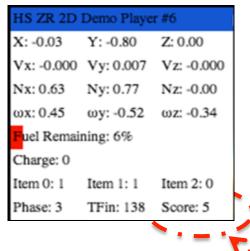


## Playing a Standard Player, continued



- You will see:
  - The "Opponent" move though the game course
  - Various elements of the game will appear
  - Your SPHERE will remain 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: This image is game specific and will vary from year to year



Elapsed Time: 174.0

HS ZR 2D Demo Player #2 X: 0.26 Y: -0.67 Z: 0.00Vx: 0.006 Vy: -0.018 Vz: 0.000 Nz: 0.01 Nx: -1.00 Nv: 0.07 ωx: 0.38 ωy: -1.07 ωz: 11.49 Fuel Remaining: 32% harge: 1 Item 0: 1 Item 1:0 Item 2: 0 TFin: 172 Score: 7 Phase: 3

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!

















