Code samples: https://gist.github.com/AnnaGerber/e5f897b7 https://gist.github.com/AnnaGerber/e5f897b7 45e5f96da463

Rover Build instructions: <a href="https://t.co/x3]8mI0ddU

autonomously, using the ultrasonic sensor to avoid obstacles

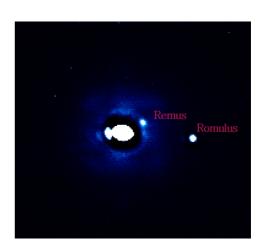
- ultrasonic sensor

 Program your bot to drive around an area
 enterportation of the second and the second sec
- Beep when an obstacle is detected using the
- Use buttons to toggle what is displayed
- Display the light reading on the digit display
- Display the temperature on the digit display

Your challenge is to build a NodeRover to explore the asteroid Sylvia 87.

Welcome to International NodeBots day 2015!

Sylvia (87)



Sylvia is very dark in color and probably has a very primitive composition. The discovery of its moons made possible an accurate measurement of the asteroid's mass and density. Its density of was found to be very low (around 1.2 times the density of water), indicating that the asteroid is porous to very porous; from 25% to as much as porous to very porous; from 25% to as much as mineralogy of the X-type asteroids is not known mineralogy of the X-type asteroids is not known well enough to constrain this further. Either way, this suggests a loose rubble pile structure. Sylvia is also a fairly fast rotator, turning about its axis every 5.18 hours. Sylvia has two orbiting satisfactor, Rombia is also a fairly fast rotator, turning about its axis every 5.18 hours.

87 Sylvia is one of the largest main-belt asteroids. It is a member of the Cybele group located beyond the core of the belt (see minor-planet groups). Sylvia is the first asteroid known to possess more than one moon.

(384×262×232)±10 km^{[1][2]} 286 km (<u>mean</u>) 385×265×230 ± 10 km^[3] 1.478±0.006×10¹⁹kg^{[1][3]} $1.2 \pm 0.1 \text{ g/cm}^{3[1][3]}$ Surface gravity 0.1379 km/s **Escape velocity** Rotation period 0.2160 d (5.183642 h)[4][5] 0.0435 [6] ~151 <u>K</u> max: 223 K (–52°C) **Temperature** <u>X</u> 🗥 Spectral type Absolute magnitude (H)

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