



Code samples:
<https://gist.github.com/AnnaGerber/e5f897b745e5f96da463>

Rover Build instructions:
<https://t.co/x3j8m10ddU>

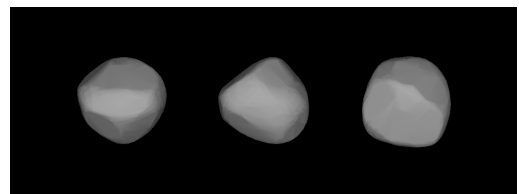
Here are some ideas for programming your bot:

- Display the temperature on the digit display
- Display the light reading on the digit display
- Use buttons to toggle what is displayed
- Beep when an obstacle is detected using the ultrasonic sensor
- Program your bot to drive around an area autonomously, using the ultrasonic sensor to avoid obstacles

Your challenge is to build a NodeRover to explore the asteroid Hebe 6.

Welcome to International NodeBots day 2015!

Hebe (6)



Physical characteristics	
Dimensions	205×185×170 km ^[a] 186 km (mean)
Surface area	109 000 km ² ^[a]
Volume	3 380 000 km ³ ^[a]
Mass	1.28×10 ¹⁹ kg ^[a]
Mean density	3.81±0.26 g/cm ³ ^[a]
Surface gravity	~0.087 m/s ²
Escape velocity	~0.13 km/s
Rotation period	0.3031 d ^[a]
Equatorial rotation velocity	22.4 m/s ^[a]
Albedo	0.268 (geometric) ^[a]
Temperature	~170 K max: ~269 K (-4°C)
Spectral type	S-type asteroid
Apparent magnitude	7.5 ^[a] to 11.50
Absolute magnitude (<i>H</i>)	5.71
Angular diameter	0.26" to 0.065"

From Wikipedia https://en.wikipedia.org/wiki/6_Hebe
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6 Hebe (/ˈhiːbiː/ hee-bee) is a large main-belt asteroid, containing around half a percent of the mass of the belt. However, due to its apparently high bulk density (greater than that of the Moon or even Mars), Hebe does not rank among the top twenty asteroids by volume. This high bulk density suggests an extremely solid body that has not been impacted by collisions, which is not typical of asteroids of its size – they tend to be loosely bound rubble piles. In brightness, Hebe is the fifth brightest object in the asteroid belt after Vesta, Ceres, Iris and Pallas. Lightcurve analysis suggests that Hebe has a rather angular shape, which may be due to several large impact craters. Hebe is the probable parent body of the H chondrite meteorites and the Ilf iron meteorites. This would imply that it is the source of about 40% of all meteorites striking Earth.