



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 Metis 9.

Welcome to International NodeBots day 2015!

9 Metis is one of the larger main-belt asteroids. It is composed of silicates and metallic nickel-iron, and may be the core remnant of a large asteroid that was destroyed by an ancient collision. Metis is estimated to contain just under half a percent of the total mass of the asteroid belt. Metis' direction of rotation is unknown at present, due to ambiguous data. The Metidian surface composition has been estimated as 30-40% metal-bearing olivine and 60-70% Ni-Fe metal. Metis appears to be more dense than most other asteroids with a diameter close to 200 km. This may support the theory that Metis is the core remnant of a large evolved asteroid for which 90% of the original mass has been lost.

Physical characteristics	
Dimensions	222×182×130 km ^[3] 235×195×140 km ^{[4][5][6]} 190 km (Dunham) ^[1]
Mass	(1.47±0.20)×10 ¹⁹ kg ^[3]
Mean density	4.12±1.33 g/cm ³ ^[3]
Surface gravity	~0.070 m/s ²
Escape velocity	~0.11 km/s
Rotation period	0.2116 d (5.079 h) ^[1]
Albedo	0.118 (geometric) ^[1]
Temperature	~173 K <i>max</i> : 282 K (+9 °C) ^[7]
Spectral type	S-type ^[6]
Apparent magnitude	8.1 ^[6] to 11.83
Absolute magnitude (<i>H</i>)	6.28 ^[1]
Angular diameter	0.23" to 0.071"

From Wikipedia https://en.wikipedia.org/wiki/9_Metis
Creative Commons Attribution-ShareAlike License

Metis (9)

