

## **Mission to Mars**

### **Overview**

Robin's web app is looking good and functioning well, but she wants to add more polish to it. She had been admiring images of Mars's hemispheres online and realized that the site is scraping-friendly. She would like to adjust the current web app to include all four of the hemisphere images. To do this, you'll use BeautifulSoup and Splinter to scrape full-resolution images of Mars's hemispheres and the titles of those images, store the scraped data on a Mongo database, use a web application to display the data, and alter the design of the web app to accommodate these images.

### **Purpose:**

- ✓ To scrape the Full-Resolution Mars Hemisphere Images and titles
- ✓ To update the Web App with Mars Hemisphere Images and titles
- ✓ To incorporate two additional Bootstrap 3 Components

Results:

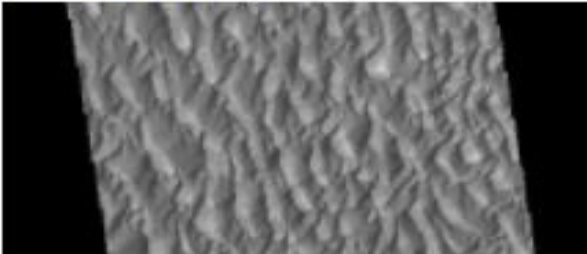
# Mission to Mars

Scrape New Data

Latest Mars News

NASA's Mars 2020 Camera Full Circle  
Aiming to pinpoint the Martian vehicle's career of gravity, engineers took NASA's 3,300-pound Mars 2020 rover for a spin in the clean room at JPL.

Featured Mars Image



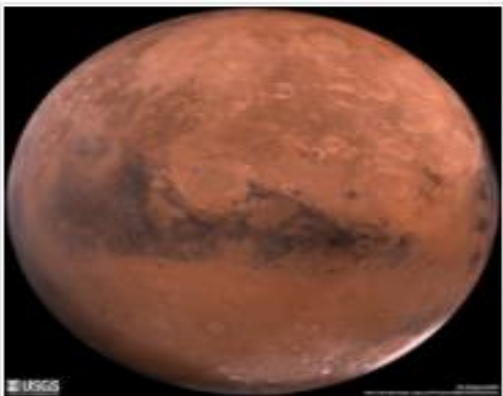
Mars Facts

	Mars	Earth
Mars - Earth Comparison		
Diameter:	6,779 km	12,742 km
Mass:	$6.39 \times 10^{23}$ kg	$5.97 \times 10^{24}$ kg
Radius:	2	1
Distance from Sun:	227,943,824 km	149,598,262 km
Length of Year:	687 Earth days	365.24 days
Temperature:	-87 to -5 °C	-88 to 59°C

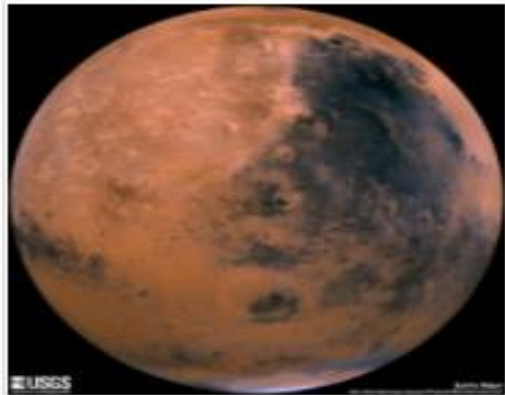
Mars Hemispheres



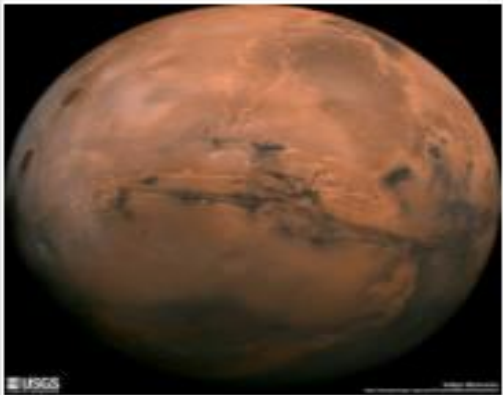
Cerberus Hemisphere Enhanced



Schiaparelli Hemisphere Enhanced



Syrtis Major Hemisphere Enhanced



Valles Marineris Hemisphere Enhanced

➤ **Deliverable 1.** Scraped Full-Resolution Mars Hemisphere Images and titles

```
# 4. Print the list that holds the dictionary of each image url and title.
hemispheres

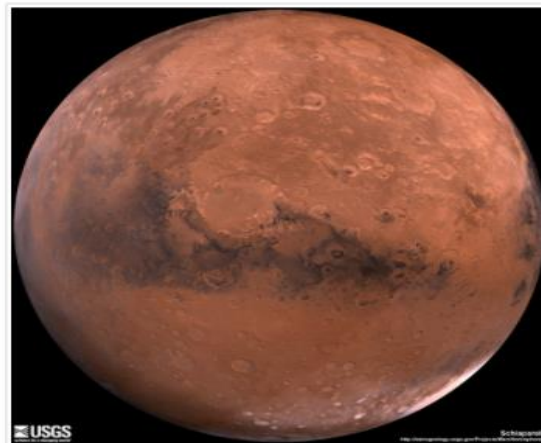
: [{ 'title': 'Cerberus Hemisphere Enhanced',
      'url': 'https://marshemispheres.com/images/full.jpg'},
    { 'title': 'Schiaparelli Hemisphere Enhanced',
      'url': 'https://marshemispheres.com/images/schiaparelli_enhanced-full.jpg'},
    { 'title': 'Syrtis Major Hemisphere Enhanced',
      'url': 'https://marshemispheres.com/images/syrtis_major_enhanced-full.jpg'},
    { 'title': 'Valles Marineris Hemisphere Enhanced',
      'url': 'https://marshemispheres.com/images/valles_marineris_enhanced-full.jpg'}]
```

➤ **Deliverable 2.** Updated the web App with Mars's Hemisphere Image and Titles

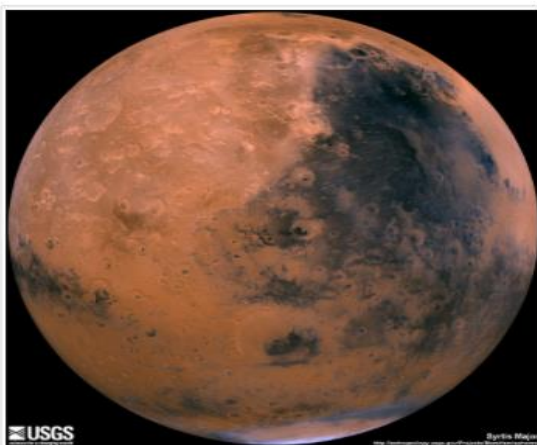
Mars Hemispheres



Cerberus Hemisphere Enhanced



Schiaparelli Hemisphere Enhanced

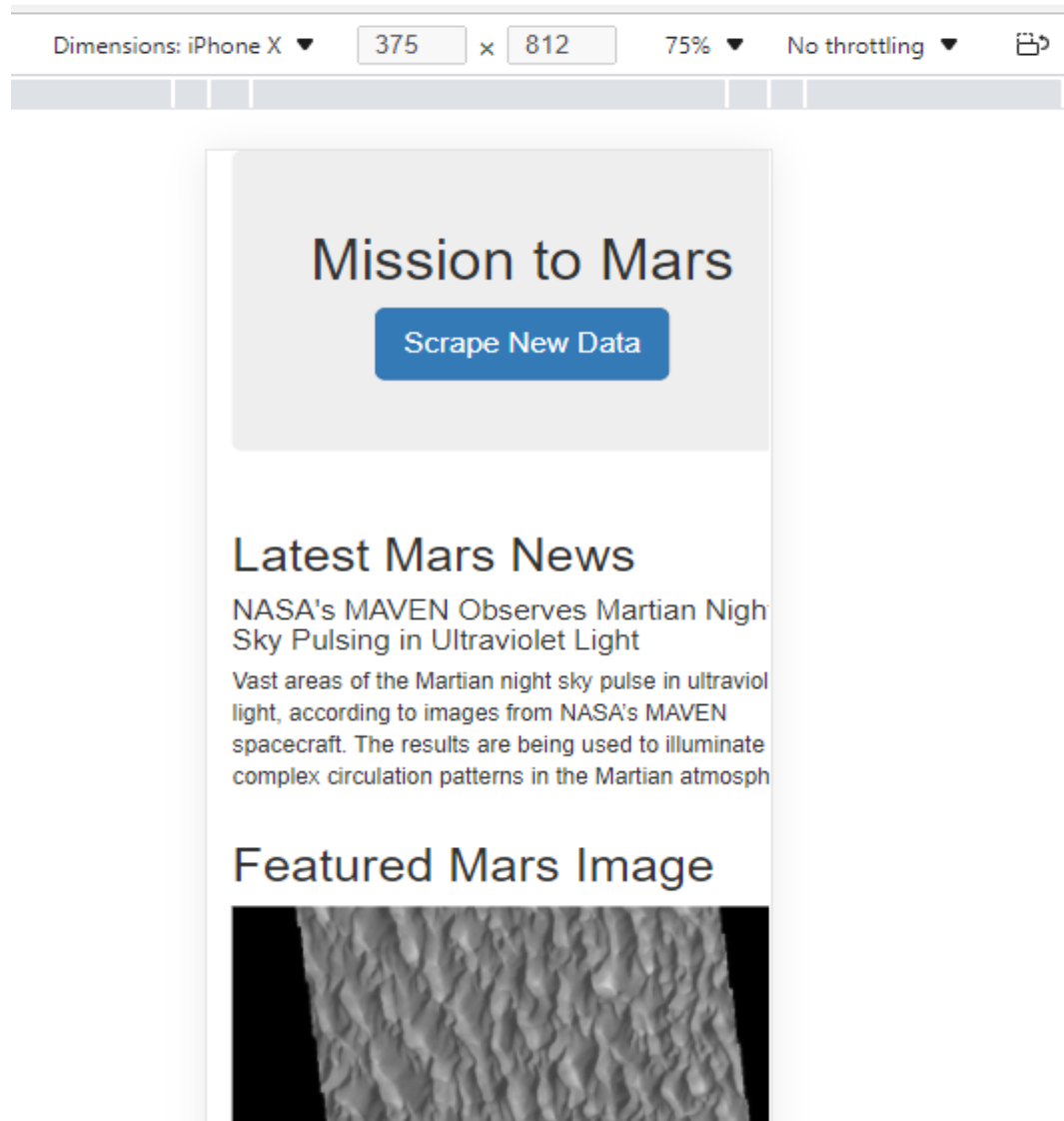


Syrtis Major Hemisphere Enhanced



Valles Marineris Hemisphere Enhanced

- **Deliverable 3.** Bootstrap 3 components added
- iPhone x mobile responsive



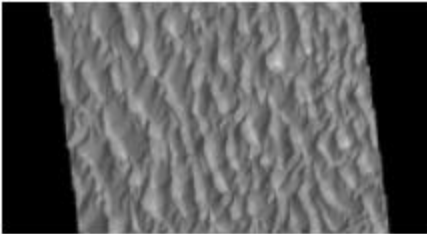
# Mission to Mars

[Scrape News Data](#)

## Latest Mars News

NASA's MAVEN Observes Martian Night Sky Pulsing in Ultraviolet Light  
New areas of the Martian night sky pulse in ultraviolet light, according to images from NASA's MAVEN spacecraft. The results are being used to formulate complex circulation patterns in the Martian atmosphere.

## Featured Mars Image



Mars Facts

	1	2
0	Mars - Earth Comparison	Earth
1	Diameter:	6,779 km
2	Mass:	$6.39 \times 10^{23}$ kg
3	Mass:	$5.97 \times 10^{24}$ kg
4	Distance from Sun:	227,943,000 km
5	Length of Year:	687 Earth days
6	Temperature:	-87 to -5 °C

## Mars Hemispheres



Cerberus Hemisphere Enhanced



Schiaparelli Hemisphere Enhanced



Syrtis Major Hemisphere Enhanced

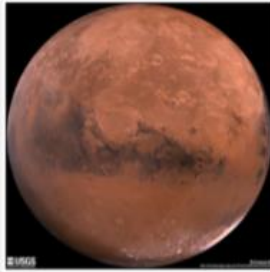


Valles Marineris Hemisphere Enhanced

## Mars Hemispheres



Cerberus  
Hemisphere  
Enhanced



Schiaparelli  
Hemisphere  
Enhanced



Syrtis Major  
Hemisphere  
Enhanced



Valles Marineris  
Hemisphere  
Enhanced