

Space in Figures

Space is a vast, empty, and dark environment. It is a vacuum, and it is the only place where you can see the stars. Space is a vast, empty, and dark environment. It is a vacuum, and it is the only place where you can see the stars.

170
Billion Stars

200
Billion Stars

Speed of Light
300,000 km/s

Light Year
 9.46×10^{12} km

Milky Way Galaxy

Diameter: 100,000 light years

552 km/s

200 Billion Stars

27,000 Light Years

Solar System

Galactic Center

Solar System

Planet Size Comparison (Relative to Earth)

Neptune

1. Mass: 171.5 Earths	2. Diameter: 49,532 km
3. Volume: 59.8 Earths	4. Density: 1.64 g/cm³
5. Surface Temp: -214°C	6. Escape Velocity: 23.5 km/s
7. Orbital Period: 164.8 years	8. Distance from Sun: 4,504,000,000 km

Uranus

1. Mass: 45.9 Earths	2. Diameter: 50,724 km
3. Volume: 63.2 Earths	4. Density: 1.27 g/cm³
5. Surface Temp: -215°C	6. Escape Velocity: 21.3 km/s
7. Orbital Period: 84.6 years	8. Distance from Sun: 2,871,000,000 km

Saturn

1. Mass: 95.2 Earths	2. Diameter: 120,536 km
3. Volume: 945 Earths	4. Density: 0.69 g/cm³
5. Surface Temp: -178°C	6. Escape Velocity: 35.5 km/s
7. Orbital Period: 29.5 years	8. Distance from Sun: 1,433,000,000 km

Jupiter

1. Mass: 318 Earths	2. Diameter: 142,984 km
3. Volume: 1,321 Earths	4. Density: 1.33 g/cm³
5. Surface Temp: -108°C	6. Escape Velocity: 59.5 km/s
7. Orbital Period: 11.9 years	8. Distance from Sun: 778,000,000 km

Asteroid Belt

Fuzzy boundary of minor planets/asteroids exists in this region. Which mostly consist of rocks and fragments of destroyed bodies.

Mars

1. Mass: 0.33 Earths	2. Diameter: 4,217 km
3. Volume: 0.15 Earths	4. Density: 3.93 g/cm³
5. Surface Temp: -55°C	6. Escape Velocity: 5.0 km/s
7. Orbital Period: 1.88 years	8. Distance from Sun: 227,900,000 km

Earth

1. Mass: 1 Earth	2. Diameter: 12,742 km
3. Volume: 1 Earth	4. Density: 5.51 g/cm³
5. Surface Temp: 15°C	6. Escape Velocity: 11.2 km/s
7. Orbital Period: 1 year	8. Distance from Sun: 149,600,000 km

Hubble Space Telescope

16,000 1990 1977

Venus

1. Mass: 0.81 Earths	2. Diameter: 12,104 km
3. Volume: 0.86 Earths	4. Density: 5.24 g/cm³
5. Surface Temp: 462°C	6. Escape Velocity: 10.3 km/s
7. Orbital Period: 0.61 years	8. Distance from Sun: 108,200,000 km

Mercury

1. Mass: 0.055 Earths	2. Diameter: 4,879 km
3. Volume: 0.056 Earths	4. Density: 5.43 g/cm³
5. Surface Temp: 175°C	6. Escape Velocity: 2.38 km/s
7. Orbital Period: 0.088 years	8. Distance from Sun: 57,900,000 km

The Moon

1. Mass: 0.0123 Earths	2. Diameter: 3,475 km
3. Volume: 0.02 Earths	4. Density: 3.34 g/cm³
5. Surface Temp: -173°C	6. Escape Velocity: 2.38 km/s
7. Orbital Period: 0.075 years	8. Distance from Earth: 384,400 km

Space Travelers

29,000	12	536
Space	Orbit	Surface

The Sun

1. Mass: 333,000 Earths	2. Diameter: 1,392,000 km
3. Volume: 1,412,000 Earths	4. Density: 1.41 g/cm³
5. Surface Temp: 5500°C	6. Escape Velocity: 617.5 km/s
7. Orbital Period: 0 years	8. Distance from Earth: 149,600,000 km

Earth

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5. Surface Temp: 15°C	6. Escape Velocity: 11.2 km/s
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Information Graphics Space

Wang Yongtian, Wu Lifang



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Table of Contents Information Graphics Space

1. Understanding the eBook Information Graphics Space
 - The Rise of Digital Reading Information Graphics Space
 - Advantages of eBooks Over Traditional Books
2. Identifying Information Graphics Space
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Information Graphics Space
 - User-Friendly Interface
4. Exploring eBook Recommendations from Information Graphics Space
 - Personalized Recommendations
 - Information Graphics Space User Reviews and Ratings
 - Information Graphics Space and Bestseller Lists
5. Accessing Information Graphics Space Free and Paid eBooks
 - Information Graphics Space Public Domain eBooks
 - Information Graphics Space eBook Subscription Services
 - Information Graphics Space Budget-Friendly Options
6. Navigating Information Graphics Space eBook Formats

- ePub, PDF, MOBI, and More
- Information Graphics Space Compatibility with Devices
- Information Graphics Space Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Information Graphics Space
 - Highlighting and Note-Taking Information Graphics Space
 - Interactive Elements Information Graphics Space
- 8. Staying Engaged with Information Graphics Space
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Information Graphics Space
- 9. Balancing eBooks and Physical Books Information Graphics Space
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Information Graphics Space
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Information Graphics Space
 - Setting Reading Goals Information Graphics Space
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Information Graphics Space
 - Fact-Checking eBook Content of Information Graphics Space
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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