

# If the moon were a pixel





## Overview

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If the moon were only 1 pixel in diameter, the Earth's diameter would be only 3.66 pixels (The diameter of the Earth is 12,742 km / 7917.5 miles, and the diameter of the Moon is 3,474.8 km / 2,160 miles). Note that the distance between Earth and the Moon is much greater than most people think. What if the Moon were only one pixel?

Called "If the moon were only one pixel", it does exactly what it says on the box. The moon (3474.8 kilometres) takes up one whole pixel, and everything else in the solar system is scaled down accordingly. As it turns out, space is mostly just that: space.

What is 1pixelmoon?

This started as a personal curiosity project and ended up getting posted on hundreds of websites, featured in museum exhibits, used as a teaching tool by science educators, and translated into 16 languages. The site was awarded the 2014 Webby Award for science websites. Visit [1pixelmoon.com](http://1pixelmoon.com) Copyright 2020 Josh Worth. Thanks for stopping by.

Are the Moon & Sun the same size?

Despite their similar apparent sizes in our sky, the Moon and Sun are (obviously) quite different in actual size. Which is a good thing for us. (Credit: Josh Worth).

Is the idea of putting a man in the Moon ludicrous?

I don't know, man. People once thought the idea of putting a man in the moon was ludicrous. Humanity achieved that shortly after developing a space program. Technology is on an exponential upswing and more possibilities are becoming realities. I'm pretty proud of myself for making it to the end and reading every little note. Oh, and I'm on a phone.

How many faces does the Moon have?



From Earth we only see one face of the moon. But it's not always the exact same face. The moon rotates once on its own axis during each 27-day journey around the Earth.

Are artistic depictions of our Solar System a good idea?

If the usual artistic depictions of our solar system are anything to go by, everything's packed in pretty tightly, and the relative sizes of the planets and the sun aren't really that different. Artistic depictions, however, are usually incorrectly scaled to a massive degree.



## If the moon were a pixel

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### **If the Moon Were Only 1 Pixel [The most accurate ...**

One intriguing way to explore the scale of our cosmic surroundings is to imagine if the Moon were only one pixel in diameter on a map. This thought experiment can help us appreciate the sheer enormity of the ...

### If the Moon Were Only 1 Pixel

If the nucleus of a hydrogen atom were the size of the Moon then the entire atom would be ~216,000,000 miles across. That's about 74,000,000 miles further than it is from the Sun to Mars. Reply reply



### **If the Moon Were Only 1 Pixel, A Tediously Accurate Scale Model of ...**

If the Moon Were Only 1 Pixel is a project by interactive media designer Josh Worth that attempts to accurately portray just how distant the Sun and planets are from each other using a single pixel to represent the Earth's moon -- which has an actual diameter of 3,474.8 kilometers -- for scale.

### If the Moon Were Only 1 Pixel

People once thought the idea of putting a man in the moon was ludicrous. Humanity achieved that shortly after developing a space program. Technology is on an exponential upswing and more ...



### Scout Archives

It is one thing to know intellectually that the universe is enormous, but it is another thing entirely to genuinely understand just how vast it is and how tiny humans are in comparison. One tool to help provide that perspective is this wonderful visualization created by Josh Worth, a graphic and web designer based in Los Angeles. As its title suggests, this project is "a tediously accurate



### If the moon were only one pixel: a tediously accurate scale model ...

If the moon were only one pixel: a tediously accurate scale model of the solar system. Josh Worth made this incredible map of the solar system - see if you can make it all ...



### FAQs: 1 Pixel Moon Map - Josh Worth Art & Design

One suggestion, which I also posted on the "If the moon were 1 pixel" page. (BTW, it's awesome!!!) I don't mind you leaving Eris out, but OMITTING TRITON, THE BIG MOON OF NEPTUNE is inconsistent with what you've presented. Triton is ...





[If the Moon were only 1 pixel](#)

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[If the Moon Were Only 1 Pixel](#)

Also if it showed objects with one quarter of the diameter of the moon it would still be less than 50 objects. just is not that much big stuff. You have to consider also that objects in space exist in 3 dimensions so a linear view like this makes them appear closer than they actually are.

[If The Moon Were Only 1 Pixel](#)

If The Moon Were Only 1 Pixel Posted on Wednesday, February 17th, 2016 by Toby Sanders If the Moon Were Only 1 Pixel is a tediously accurate model of the solar system. The World Is A Big Place If the Moon Were Only 1 Pixel is a project that asks its' users to look at the solar system in a new way.



['If the Moon Were Only 1 Pixel'](#)

'If the Moon Were Only 1 Pixel' - a real deal solar system simulator Most of us imagine the eight planets as colorful balls of varying sizes moving in orbits that comfortably fit within the



If the moon were 1 pixel...

I'm not often a huge fan of computer-based demonstrations: if you're going to show the reality of something, show it for real. However, when the thing you're trying to show is abstract - like, for example, the immense scale of the solar system - then screen-based demos can make a lot of sense. Take this ... Continue reading If the moon were 1 pixel... ->



If the Moon Were Only 1 Pixel

If the Moon Were Only 1 Pixel - A tediously accurate map of the solar system from Navigation More inspiration See more related elements from w. ELEMENT Moon ELEMENT A Promise Broken - Scroll triggered video ELEMENT Palo Font ELEMENT Click and

If The Moon Were Only One Pixel

If The Moon Were Only One Pixel May 12, 2014 May 11, 2014 Terri Eichholz This is an amazing site that will give you the sense of the depth and breadth of our solar system - with a tinge of humor added to it.



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If the Moon Were Only 1 Pixel

If the moon were made of barbecue spare ribs, would you eat it. I know I would. Reply KirbySliver o Additional comment actions Space is big. You just won't believe how vastly, hugely, mind-bogglingly big it is. I mean, you may think it's a long way down the



[If the moon were only 1 pixel \[Link\]](#)

The website, If the moon were only 1 pixel, not surprisingly, accurately scales the solar system with the moon's diameter being only one pixel on your screen. Prepare yourself for a lot of sideways scrolling -- Pluto's ...



**Here's What Space Would Be Like If the Moon Were Only 1 Pixel ...**

Here's What Space Would Be Like If the Moon Were Only 1 Pixel Wide You may think it's a long way down the road to the chemist's, but that's just peanuts to space! Victoria McNally



[If The Moon Were Only 1 Pixel](#)

If The Moon Were Only 1 Pixel Released January 1, 2020 A video adaptation of Josh Worth's website in which he recreates the Solar System to scale with the Moon only being one pixel big. Josh Worth can be found here. The music in the piece was composed by



**If the moon was a pixel: a scale model of the solar ...**

With one pixel representing the Moon's diameter, Earth now measures roughly 7.9 pixels in diameter (12,742 kilometers). Our nearest celestial neighbors-- Mercury, Venus, and Mars--turn out to be 3.2 pixels (4,880 kilometers), 6.3 ...





## If the Moon Were Only 1 Pixel - Josh Worth Art & Design

If the Moon Were Only 1 Pixel. A tediously accurate scale map of the solar system that illustrates the mind-boggling amount of space between planets.



### [If the moon was 1 pixel. : r/space](#)

If one pixel equals 3474 km (diameter of the moon) then the amount of pixels needed are roughly  $1.3 \times 10^6$  pixels. If you use A4 and print with a pixel density of 600 PPI you get 7016 pixels in landscape and thus  $1.3 \times 10^6 / 7016$  sheets  $\approx$  185 sheets, which is 55 meters.

### [Featured Resources: The Scale of the Universe](#)

If the Moon Were Only 1 Pixel If The Moon Were Only 1 Pixel is a web page that allows users to scroll on screen through the entire solar system scribed by its creator, Josh Worth, as "a tediously accurate scale model of the solar system," it gives users a unique feel for the scope of these distances and the vastness of space.



### **What the Solar System Looks Like When the Moon Is 1 Pixel**

In case you weren't already over the moon about NASA getting up-close and personal with what was once our most distant planet (now the largest dwarf planet in our Solar System), consider this



### **If the moon was a pixel: a scale model of the solar ...**

Called "If the moon were only one pixel", it does exactly what it says on the box. The moon (3474.8 kilometres) takes up one whole pixel, and everything else in the solar system is scaled



### **If the Moon Were Only 1 Pixel: The most accurate map of the ...**

If the moon were only 1 pixel in diameter, the largest planet in the Solar System, Jupiter's diameter would be about 40 pixels: The diameter of Jupiter is 139,820 km / 86,880 miles, and the diameter of the Moon is 3,474.8 km / 2,160 miles.

### [If the Moon Were Only 1 Pixel \(2014\)](#)

If the Moon Were Only 1 Pixel (2014) (joshworth ) 422 points by brycehalley on Dec 8, 2019 , hide , past , favorite , 82 comments tduberne on Dec 9, 2019 That is a fantastic visualization to get a feeling of the scales involved.



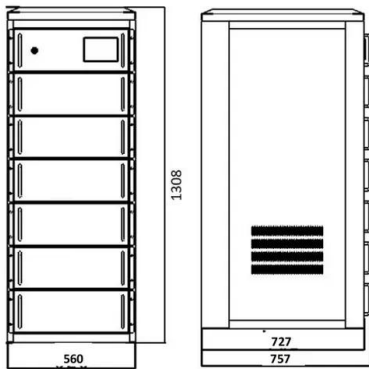
### **If the Moon Were Only One Pixel: a Scale Model of the Solar ...**

Created by designer Josh Worth, "If the Moon Were Only 1 Pixel: A Tediously Accurate Scale Model of the Solar System" uses a horizontally-sliding HTML page to show ...



[Explore the Solar System on a Pixel Scale](#)

Interactive media designer Josh Worth has recreated the entire Solar System through a "tediously accurate scale model" by imagining "if the moon were only 1 pixel." By scrolling horizontally across his interactive site, you can see just how vast our own Solar System is and how far away even our closest neighbors are.



[If the Moon Were Only 1 Pixel](#)

If this map was printed from a quality printer (300 pixels per inch) the earth would be invisible, and the width of the paper would need to be 475 feet. 475 feet is about 1 and 1/2 football fields. Even though we don't really understand them, a lot can happen ...

[If the Moon Were Only 1 Pixel](#)

I do think that if we were ever to voyage at ludicrous speeds, we would bypass light speed entirely. I'm not sure that it's possible, mind you, but if it is, it would be a lot easier to do 10c or 100c with an Alcubierre drive than going to .9c with a regular craft. Just like it



[If the Moon Were Only 1 Pixel](#)

If the Moon Were Only 1 Pixel - A tediously accurate map of the solar system. As the rightmost text says, if you scroll that far, you'd have to go thousands of times further to get to the next star. h/t Pharygula Share this: Click to share on Facebook (Opens in



### If the moon was a pixel: a scale model of the solar system

With one pixel representing the Moon's diameter, Earth now measures roughly 7.9 pixels in diameter (12,742 kilometers). Our nearest celestial neighbors-- Mercury, Venus, and Mars--turn out to be 3.2 pixels (4,880 kilometers), 6.3 pixels (12,104 kilometers), and 4.8 pixels (6,779 kilometers) in diameter.



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### [Scale Model of the Solar System](#)

If the Moon Were Only One Pixel A demonstration and scale model of the distance between objects in our solar system. Solar System Scope Additional Resources: Our Solar System - Ancient Worlds, New Discoveries Why is Pluto No Longer a Planet?

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