

马斯克再次颠覆人类历史-首发世界上最强大火箭，搭载特斯拉跑车，但发射火箭不是马斯克的终极愿望，他宣布了更不可思议的人类移民外太空计划。



??SpaceX??
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???????????SpaceX?????????????.??(Elon Musk)???"Starman"???Spacex?????????????????????"22"???"????"?

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On a conference call with reporters Monday afternoon, Musk said the Tesla would do a 'grand tour' through the Van Allen belts, an area of high radiation that surrounds the Earth, as part of a six-hour coast in deep space that is

intended to demonstrate to the U.S. Air Force that Falcon Heavy can meet specific orbit-insertion requirements.

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If the car survives that environment, then it will continue on to an elliptical orbit around the sun that at times will come close to Mars, with an "extremely tiny" chance it will hit the Red Planet, though Musk said, "I wouldn't hold your breath."

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The journey of Starman and the Tesla is being live-streamed by SpaceX on YouTube. about 2:50 p.m. Pacific time, the car and its driver were seen drifting through space with Earth looming behind.

SpaceX???Starman?????????YouTube????? ??2:50????????? ??????????????????????

Musk said Tuesday that he thought the payload was "silly and fun."

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I think the imagery of it is something that's going to get people excited around the world, he said. "It's still tripping me out."

"????"?????????????????????????????????"?????"

Falcon Heavy is the most powerful U.S. rocket since the Saturn V. First announced to the public in 2011, Falcon Heavy was expected to generate 5.1 million pounds of thrust at liftoff and be capable of carrying more than 140,000 pounds to low-Earth orbit.

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The launch of Falcon Heavy sets SpaceX up as an even more powerful competitor in the private space industry, particularly in terms of heavy-lift capacity. Although other companies, such as Jeff Bezos' Blue Origin and Orbital ATK, are also developing giant rockets to hoist heavy payloads to space, Tuesday's successful launch gives SpaceX several years of lead time, said Marco Caceres, senior space analyst at Teal Group.

SpaceX CEO-BlueOrigin?OrbitalATK??
SpaceX?TealGroup?MarcoCaceres??

It's just changing the whole game, he said. "The fact that you have a brand-new rocket that is the most powerful rocket and it's a success on the first try, that's big news."

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With its large payload capacity, the Falcon Heavy is expected to help SpaceX win contracts that require more capability than its workhorse Falcon 9 rocket.

SpaceX?

When you're talking about highly classified payloads or special missions, you really want to be sure you've got capacity, Ellen Tauscher, former U.S. undersecretary of state for arms control and international security, who serves on SpaceX's board of advisors, said Tuesday.

EllenTauscher?SpaceX?"

Analysts have said that the commercial launch market for large satellites is tight and that SpaceX would need to secure new opportunities, such as NASA planetary missions, to maximize its investment in Falcon Heavy — which, on Tuesday, Musk pegged at more than half a billion dollars. But its huge payload capacity and price tag — launches start at \$90 million — could change things, said Bill Ostrove, aerospace and defense analyst at Forecast International.

SpaceX?——?
Forecast International?Bill Ostrove?9,000?——?

With a price point at that level, we don't know what's going to develop going forward, he said.

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Falcon Heavy won't even be the largest rocket SpaceX intends to build. On Tuesday, Musk said the rocket's successful test flight gave him confidence in the company's upcoming BFR spaceship and rocket system, which he has said will carry people to colonize Mars.

SpaceX?BFR?BFR?

Musk first promised that a demonstration flight of the massive rocket would occur in 2012. But SpaceX, whose full name is Space Exploration Technologies Corp., found that development of the 27-engine behemoth was more difficult than initially expected.

????????????2012????????SpaceX?Space Exploration Technologies Corp????????27????????????????????

After a successful static fire almost two weeks ago, anticipation had been building for Falcon Heavy's first flight. By noon Pacific time Monday, Kennedy Space Center's visitor center tweeted that no more tickets were available to watch the launch from designated viewing spots.

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Musk tried to temper expectations, going as far as to say that there was a "good chance" the rocket would not make it to orbit on the first flight and that he hoped the spacecraft made it "far enough away from the pad that it does not cause pad damage."

??good
chance??

I would even consider that a win, to be honest, he told an audience at a space conference in Washington this summer.

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Tauscher, who as a representative for California's 10th Congressional District served on the House Armed Services Committee, said Tuesday that the launch would be an opportunity to learn.

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You have to be innovative, she said. "You have to be willing to do tests that give you the answers you're looking for."

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On Monday, Musk told reporters he didn't feel that stressed about the launch. I feel quite giddy and happy, actually, Musk said. "We've done everything we could to maximize the chance of success for this mission."

