

US Stock Express

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And so it begins !



Tesla Model Y drives without safety monitor in Austin

Tesla CEO Elon Musk says the company is now testing its robotaxi without human monitors in Austin. Deputy CEO Ashok Elluswamy who is in charge of this project released a post in X

“And so it begins!”

[Elon Musk says Tesla is now testing driverless robotaxis, without a human safety monitor, on Austin's streets](#)

People are waiting for one morning when they wake up, Elon Musk will announce the official success of fully autonomous driving, that all Tesla private car owner in 5 continents of the world can install such a version, when they do not use their private car it can be released out as robotaxi and even can earn money for the owner then they are sleeping. It is not just a news of Tesla, it is a world news, it will be news of the era.

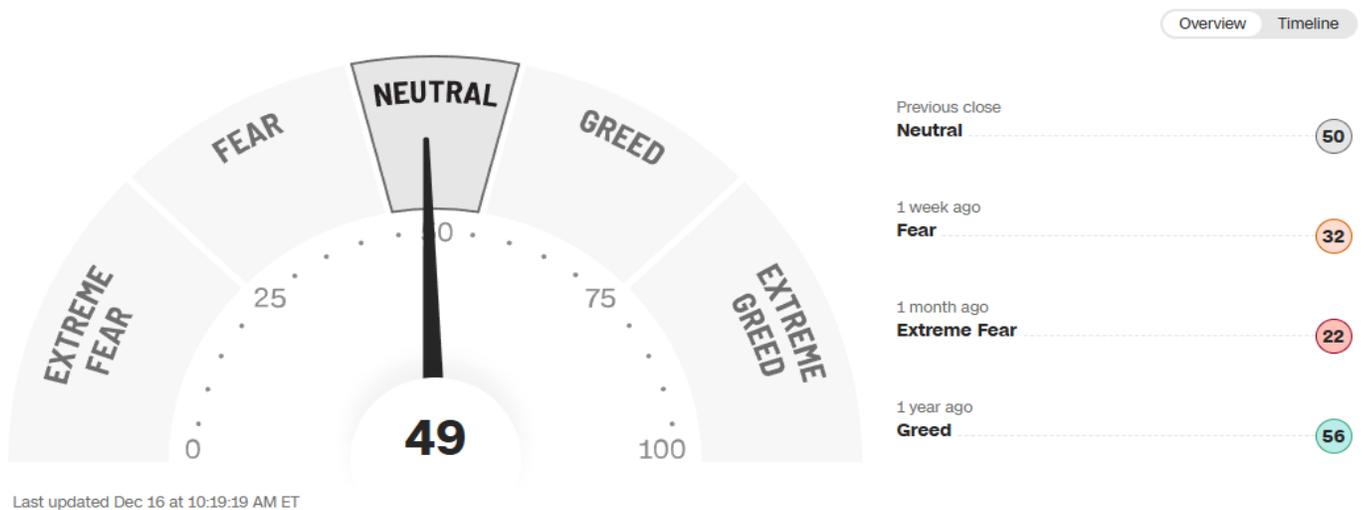
Just you wait !

*Risk disclosure: Price can go up and down at any moment, use free money to trade and bear the risk according to your own capital;
Never trade with money that has a deadline for withdrawal.
All suggestions are for reference only, even AI cannot be 100% reliable, final decision still lies upon investors.
Copy trading cannot replicate another trader's background or psychological state.*

Fear & Greed Index

What emotion is driving the market now?

[Learn more about the index](#)



North East West South is NEWS

US President Trump stated today that the government may push for federal deregulation of marijuana, reclassifying it as a less dangerous drug. Currently, marijuana is classified as a Schedule I controlled substance at the federal level, in the same category as heroin and LSD.

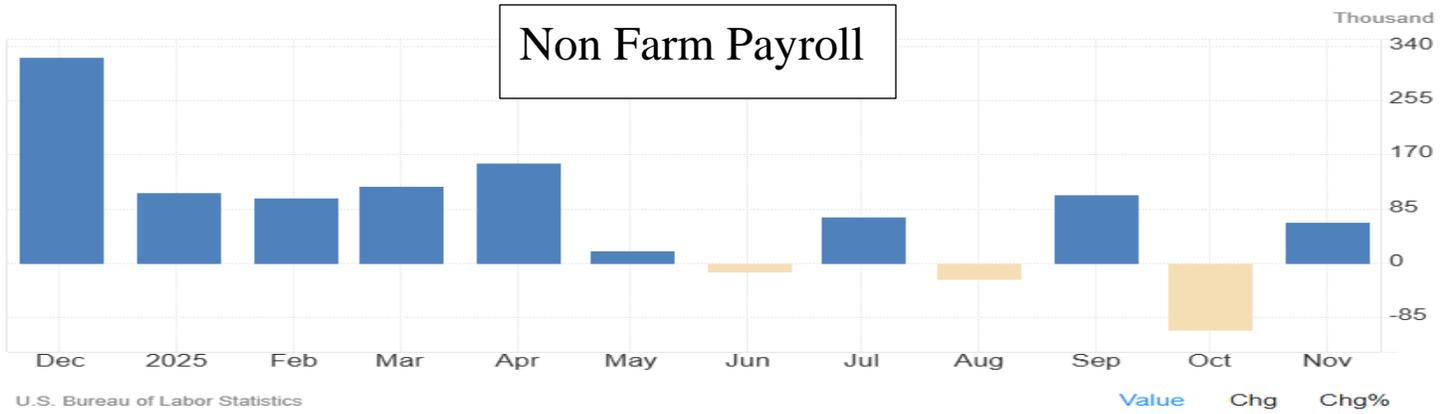
US officials announced today that four people have been arrested for allegedly participating in a plot by a far-left anti-government group to carry out a series of bomb attacks in Los Angeles on New Year's Eve.

International oil prices fell today, primarily due to the prospect of an end to the war in Ukraine and the potential easing of sanctions on Russian oil, exacerbating concerns about oversupply. The international benchmark Brent crude oil price fell more than 1%, dropping below \$60 per barrel for the first time since May.

In an interview with Yahoo Finance, Stephen Witt, author of Huang Renxun's biography "The Thinking Machine," bluntly stated, "The biggest risk right now is clearly Google."

A study released today indicates that thousands of glaciers will disappear annually in the coming decades, and unless global warming is halted, only a small fraction will remain by the end of this century. The study shows that government actions to address climate change will determine whether 2,000 or 4,000 glaciers disappear globally each year by mid-century.

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Non Farm Payrolls for Oct 2025 vs previous 119K?



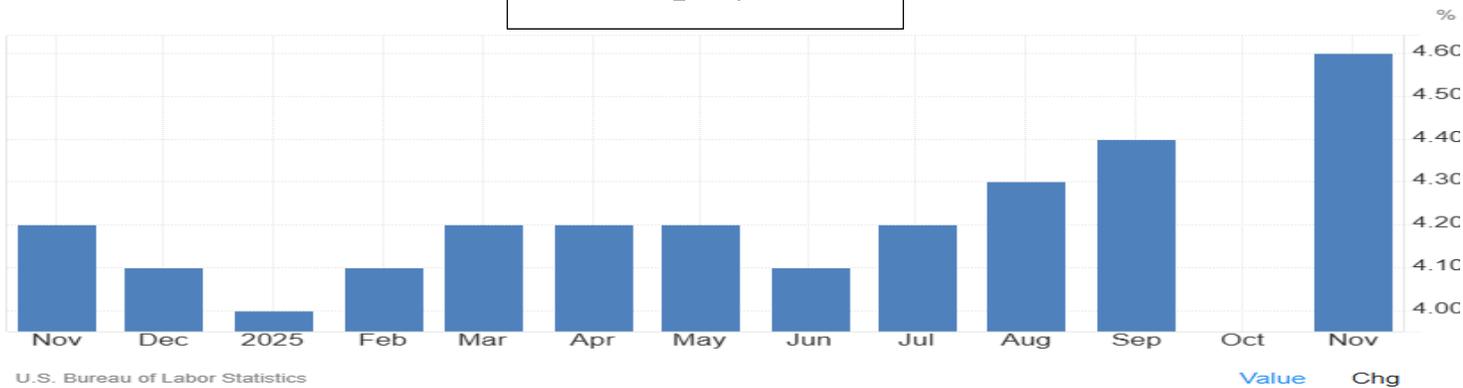
TRADING ECONOMICS

[Vote on Next](#)

[Feedback](#)

Calendar	GMT	Reference	Actual	Previous	Consensus	TEForecast
2025-12-16	01:30 PM	Nov	64K	-105K	50K	25.0K
2025-12-16	01:30 PM	Oct	-105K	108K		55.0K
2026-01-09	01:30 PM	Dec		64K		

Unemployment



What will the Nov 2025 Unemployment Rate be versus the prior 4.4%?



TRADING ECONOMICS

[Vote on Next](#)

[Feedback](#)

Calendar	GMT	Reference	Actual	Previous	Consensus	TEForecast
2025-11-20	01:30 PM	Sep	4.4%	4.3%	4.3%	4.3%
2025-12-16	01:30 PM	Nov	4.6%	4.4%	4.4%	4.6%
2026-01-09	01:30 PM	Dec		4.6%		



World Observation

Day 1394
Russia/Ukraine Conflict

Mars Landing 2030

(3) Exploration to Outer Space

Recently, when the market had some correction, some people jumped out and said the bubble will burst. Some agreed and some disagreed. Who is correct? When GOOG chased near NVDA, some said it would be surpassed soon; some said not just surpassing, but a seesaw game started. Some stood out and say the case is not just GOOG, but AVGO, AMZN, META will also join the competition, why just say GOOG? So, who is correct? We must understand from the base and not just aiming at what is happening today.

Therefore, for the project of Mars exploration is just the same. Don't just look at today, we must understand the whole exploration of the solar system or even beyond it, or else we do not know how hard or how easy it is. Such as the parallel project of establishing data centre in orbit, Elon Musk said it will be done very soon. Some responded in happiness and some said a lot of technical problems need to be solved. So, who is correct?

When you want to understand the Mars Exploration project accurately, do not just look at Mars, we must know the process of space exploration since the first man entered into space. Who is the first man that entered into space? It was Yuri Gagarin in 12th April 1961. The first American was in 5th May 1961. US apparently was nearly one month later.

How about the other planets? Even they do not have people going there, still a lot of unmanned spacecrafts flying by, I asked the AI to make a list. In the past the writer has to search one by one, now just order the AI to do so. Why

we have to learn Financial Astrology? Because it can give us a broader eyesight and can view things from a broader horizon and would not be limited to what is just happening in front of our eyes. Such as the rotating direction of the Milky Way, clockwise or anticlockwise? When viewing from north pole of the Milky Way it is anticlockwise, but if from south pole it is clockwise. So, better view things from other side than one side only.

Thus, we know that Mars Exploration is not just a project of visiting Mars, but a series of project exploring the solar system and outside the solar system. When you know such a big picture, you can understand more than others just thinking of Landing on Mars only. When US found that in the space race, they were left behind by Soviet Union, on 25th May 1961, in a special joint Congress session, President John Kennedy pledged to achieve a goal of sending a man to land on the Moon and back to earth safely before the end of that decade. Finally, it was done!

Please mind that NASA did not stop exploration to other planets even the Moon is in priority. Mission to Mars had a flyby of the US in 1962, and to Mars in 1964 and still continuing parallel to Moon Landing. By the way, they are still planning to other planets and to the outer space, even though some results can only be seen after the Moon Landing. Thus, we can know space exploration is a whole project and cannot be just cut off and talk about one part of Mars or Moon only.

Even in landing of the Moon, there is not just by a single project of Apollo, there is still another project know as Gemini. Do you know the difference between Apollo and Gemini Projects? We must understand these all one by one or else you do not know how important or unimportant the Artemis project of Mars Landing is. We will talk about in the coming issues. But don't forget Voyager 1 and 2 to outer space is still running now and a lot of projects beyond Mars are still running in parallel now.



GPT-5 is here - OpenAI

Quick Answer:

The first American in space was **Alan Shepard** on **May 5, 1961**, aboard *Freedom 7*. The first unmanned spacecraft to other planets included **Luna 1 (Moon, 1959)**, **Venera 1 (Venus, 1961)**, and **Mariner 4 (Mars, 1964)**. Later, **Voyager 1 (1977)** and **Voyager 2 (1977)** became the first spacecraft to journey beyond the solar system into interstellar space. [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#)



First American in Space

- **Alan B. Shepard Jr.** became the first American in space on **May 5, 1961**.
- He flew a **15-minute suborbital mission** aboard the Mercury capsule *Freedom 7*.
- This came just weeks after Yuri Gagarin's historic orbital flight. [1](#) [2](#) [3](#)



First Unmanned Missions to Planets

Early robotic missions paved the way for human exploration:

- **Moon:** *Luna 1* (Soviet Union, 1959) – first spacecraft to escape Earth's gravity and fly past the Moon. [6](#)
- **Venus:** *Venera 1* (Soviet Union, 1961) – first probe sent toward Venus, though contact was lost. [4](#) [6](#)
- **Mars:** *Mariner 4* (USA, 1964) – first successful Mars flyby, sending back close-up images. [4](#) [6](#)
- **Mars Orbiter:** *Mariner 9* (USA, 1971) – first spacecraft to orbit another planet, mapping 85% of Mars. [5](#)
- **Other Planets:**
 - *Pioneer 10* (USA, 1972) – first probe to Jupiter.
 - *Pioneer 11* (USA, 1973) – first probe to Saturn.
 - Later missions included flybys of Uranus and Neptune by Voyager 2. [6](#)

Voyager Missions Beyond the Solar System

- **Voyager 2** launched **August 20, 1977**.
 - Flew by **Jupiter (1979), Saturn (1981), Uranus (1986), and Neptune (1989)**.
 - Entered **interstellar space on November 5, 2019** ⁸.
- **Voyager 1** launched **September 5, 1977**.
 - Flew by **Jupiter (1979) and Saturn (1980)**.
 - Entered **interstellar space on August 25, 2012**, becoming the farthest human-made object. ⁸ ⁹

Both Voyagers carry the **Golden Record**, a message from Earth intended for any extraterrestrial life that might encounter them. ⁹

 [GPT-5 is here - OpenAI](#)

Summary Table

Mission	Target/Planet	Year	Nation	Achievement
Luna 1	Moon	1959	USSR	First probe to escape Earth & fly past Moon
Venera 1	Venus	1961	USSR	First probe toward Venus
Mariner 4	Mars	1964	USA	First successful Mars flyby
Mariner 9	Mars	1971	USA	First orbiter of another planet
Pioneer 10	Jupiter	1972	USA	First probe to Jupiter
Pioneer 11	Saturn	1973	USA	First probe to Saturn
Voyager 1	Jupiter, Saturn → Interstellar	1977	USA	First spacecraft in interstellar space (2012)
Voyager 2	Jupiter, Saturn, Uranus, Neptune → Interstellar	1977	USA	Only probe to visit Uranus & Neptune; entered interstellar space (2019)

Would you like me to also create a **timeline chart** of these milestones so you can visually see the progression from Luna 1 to Voyager?



First American in Space

After Yuri Gagarin's historic orbital flight on April 12, 1961, the **first American to enter space** was **Alan Shepard**. He flew on May 5, 1961, aboard the Mercury spacecraft *Freedom 7* during the suborbital Mercury-Redstone 3 mission. The flight lasted about 15 minutes, reaching an altitude of approximately 187 km (116 miles), qualifying as spaceflight by crossing the Kármán line (100 km).

First Unmanned Spacecraft to Reach Planets

Here is a list of the first successful unmanned spacecraft to reach (via flyby, orbit, or landing) each major planet in the solar system. "Reach" typically means a successful flyby for outer planets, as most early missions were flybys. These are historic firsts, primarily from the Space Race era (Soviet Union and USA):

- **Venus:** Mariner 2 (USA) – successful flyby on December 14, 1962. (Earlier Soviet Venera 1 failed.)
- **Mars:** Mariner 4 (USA) – successful flyby on July 14–15, 1965, returning the first close-up images. (Soviet Mars 1 failed earlier.)
- **Jupiter:** Pioneer 10 (USA) – successful flyby on December 3, 1973.
- **Saturn:** Pioneer 11 (USA) – successful flyby on September 1, 1979.
- **Uranus:** Voyager 2 (USA) – successful flyby on January 24, 1986. (Only spacecraft to visit Uranus.)
- **Neptune:** Voyager 2 (USA) – successful flyby on August 25, 1989. (Only spacecraft to visit Neptune.)
- **Pluto** (dwarf planet): New Horizons (USA) – successful flyby on July 14, 2015.

Mercury was first reached by Mariner 10 (USA) in 1974–1975, but it's not typically grouped with "other planets" beyond Earth/Moon in this context.

Voyager 1 and 2: First Spacecraft to Exit the Solar System

Voyager 1 and **Voyager 2**, launched in 1977, were designed for the outer planets grand tour (Jupiter, Saturn, and extended for Voyager 2 to Uranus and Neptune). After completing their planetary missions, they continued outward:

- **Voyager 1** became the first human-made object to enter **interstellar space** (beyond the heliopause, the boundary of the Sun's influence) on August 25, 2012.
- **Voyager 2** followed, entering interstellar space on November 5, 2018.

Both continue to operate (as of 2025), sending data from the interstellar medium, and are the farthest human-made objects from Earth. They carry Golden Records as messages for potential extraterrestrial finders.