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How fast does airbag inflate

The goal of an airbag is to slow the passenger's forward motion as evenly as possible in a fraction of a second. There are three parts to an airbag that help to accomplish this feat:The bag itself is made of a thin, nylon fabric, which is folded into the steering wheel or dashboard or, more recently, the seat or door.The sensor is the device that tells the bag to inflate. Inflation happens when there is a collision force equal to running into a brick wall at 10 to 15 miles per hour (16 to 24 km per hour). A mechanical switch is flipped when there is a mass shift that closes an electrical contact, telling the sensors that a crash has occurred. The sensors receive information from an accelerometer built into a microchip.The airbag's inflation system reacts sodium azide (NaN3) with potassium nitrate (KNO3) to produce nitrogen gas. Hot blasts of the nitrogen inflate the airbag.Early efforts to adapt the airbag for use in cars bumped up against prohibitive prices and technical hurdles involving the storage and release of compressed gas. Researchers wondered:If there was enough room in a car for a gas canisterWhether the gas would remain contained at high pressure for the life of the carHow the bag could be made to expand quickly and reliably at a variety of operating temperatures and without emitting an ear-splitting bangThey needed a way to set off a chemical reaction that would produce the nitrogen that would inflate the bag. Small solid-propellant inflators came to the rescue in the 1970s.The inflation system is not unlike a solid rocket booster (see How Rocket Engines Work for details). The airbag system ignites a solid propellant, which burns extremely rapidly to create a large volume of gas to inflate the bag. The bag then literally bursts from its storage site at up to 200 mph (322 kph) – faster than the blink of an eye! A second later, the gas quickly dissipates through tiny holes in the bag, thus deflating the bag so you can move.Even though the whole process happens in only one-twenty-fifth of a second, the additional time is enough to help prevent serious injury. The powdery substance released from the airbag, by the way, is regular cornstarch or talcum powder, which is used by the airbag manufacturers to keep the bags pliable and lubricated while they're in storage.Next, we'll look at some of the safety cautions associated with airbags, especially where children are concerned. Buy cheap? Even in the stock market, buyers like to find a bargain. Defining a bargain, however, can be tricky. There's a stigma that gets attached to low stock prices, based on the reality that most stocks don't fall without a reason. And those reasons are usually rooted in some facet of poor company performance. But not always, and that's why finding stock bargains can be tricky. There are plenty of low-priced equities out there with sound fundamentals and solid future prospects, and these optInvestor's Business DailyInvestors and analysts are bullish on the S&P 500. But they're starting to severely call out individual stocks for running up too much.Shares of Tencent Music Entertainment Group (NYSE: TME) fell 12% on Tuesday after the online music platform reported its second-quarter financial results. Tencent Music's revenue rose 15.5% year over year to \$1.2 billion. The gains were driven by a 40.6% surge in online music paying users, to 66.2 million, which fueled a 36.3% increase in revenue from music subscriptions, to \$277 million.A new regulatory authorization and a potentially soon-to-be-announced plan for booster shots drove investors to ramp up their purchases of the popular biotech stock.Investor's Business DailyWarren Buffett revealed more exposure to consumer stocks as Berkshire Hathaway posted its 13-F for the second quarter of 2021.Alibaba is the world's largest online and mobile commerce company, measured by GMV (CNY 6.6 trillion/USD 1 trillion for the fiscal year ended March 2020). It operates China's most-visited online marketplaces, including Taobao (consumer-to-consumer) and Tmall (business-to-consumer). Alibaba's China commerce retail division accounted for 69% of revenue in the December 2020 quarter, with Taobao generating revenue through advertising and other merchant data services and Tmall deriving revenue from commission fees. Additional revenue sources include China commerce wholesales (2%), international retail/wholesale marketplaces (5%/2%), cloud computing (7%), digital media and entertainment platforms (4%), Cainiao logistics services (5%), and innovation initiatives/other (2%).Investor's Business DailyHundreds of Chinese companies are listed on U.S. markets. But which are the best Chinese stocks to buy or watch right now? Weibo, Sohu, Nio, BYD Co. and Li Auto. China is the world's most-populous nation and the second-largest economy with a booming urban middle class and amazing entrepreneurial activity.Plug Power's Inc. (NASDAQ:PLUG), shares saw an 11% drop to US\$25.10 in the week since the company reported its quarterly result. On the whole, it seems that the stock has stabilized back to fundamentals after a high enthusiasm run from the beginning of 2021. We will take a better look at the fundamentals and see what analysts are expecting for the company.(Bloomberg) -- SoftBank Group Corp. sold roughly \$14 billion worth of listed stocks last quarter, nearly triple the amount in the previous period, as the company increases pace of investment in technology startups.The company probably raised over \$6 billion liquidating its holdings in Facebook Inc., Microsoft Corp., Alphabet Inc., Salesforce.com Inc. and Netflix Inc. in the three months ended June 30, according to Bloomberg calculations based on data disclosed by SoftBank in quarterly reports wiOne day has made a huge difference for the stock of Sesen Bio (NASDAQ: SESN). What in the world is going on with this volatile stock? Monday's steep dive was due to the Food and Drug Administration, which told Sesen Bio that it would not be approving the company's Biologics License Application (BLA) for bladder cancer drug Vicineum.The tech company expects to see a jump in revenue from chips that crypto miners use to conduct their business.Few investors have realized better sustained profits than George Soros. His hedge fund's annualized returns exceeded 30% for over 30 years, and made him one of the world's richest men. He gained fame in 1992 when he made a famous bet against the Pound Sterling and generated over \$1 billion in profits in just 24 hours. While his political activities have generated controversy and criticism, no one can doubt his financial acumen. He bases that acumen on a simple aphorism: "If investing is entertai(Bloomberg) -- Palantir Technologies Inc. said it's preparing for another "black swan event" by stockpiling gold bars and inviting customers to pay for its data analysis software in gold.The company spent \$50.7 million this month on gold, part of an unusual investment strategy that also includes startups, blank-check companies and possibly Bitcoin. Palantir had previously said it would accept Bitcoin as a form of payment before adding precious metals more recently.A spokeswoman for Palantir saidThe best investors in the world swear by holding high-quality companies for decades on end. These stocks fit that bill.The stock market took a hit on Tuesday, although losses for major market averages were limited to less than 1%. The Dow Jones Industrial Average (DJINDICES: ^DJI), S&P 500 (SNPINDEX: ^GSPC), and Nasdaq Composite (NASDAQINDEX: ^IXIC) all came under pressure, with worries about retail sales and the state of the consumer economy weighing on market sentiment. Warren Buffett still gets a lot of attention, even in his 90s, and the leader of Berkshire Hathaway (NYSE: BRK.A) (NYSE: BRK.B) has plenty of people watching his investment moves.Investor's Business DailyBig hedge funds soured on Chinese stocks in Q2 as Beijing's regulatory crackdown across the private sector ramped up.Shares of Monday.com (NASDAQ: MNDY) surged 24% on Tuesday after the work-management software provider announced strong second-quarter results. The gains were fueled by new customer wins and higher sales to existing clients, as evidenced by its sterling net dollar retention rate for customers with more than 10 users of over 125%.Yahoo Finance's Jared Blikre reports on the day's trending tickers.Shares of lithium mining company Lithium Americas (NYSE: LAC) crashed in Tuesday trading and are down 11.5% as of 1:20 p.m. EDT. Who's to blame for Lithium Americas investors' recent run of bad luck, though? You may be surprised to learn that it's actually larger lithium miners Albemarle (NYSE: ALB) and Livent Corporation (NYSE: LTHM) – and the bank that warned against buying them yesterday.When it comes to planning for your financial future, it pays to pack your portfolio with stocks that can keep growing even if the market is falling. In this vein, drugmaker AbbVie (NYSE: ABBV) might be a strong contender for the part of your portfolio that's devoted to stable, stalwart stocks. Its roster of medicines is quite profitable, and it has a handful of other projects to pave the way for revenue growth in the future. If you got married in America in 1967, you could expect to buy your first home for \$22,500, your first new car for around \$3,000 and a Friday night date at the movies would run you a dollar for each ticket and an extra nickel for popcorn [sources: DQYDJ, Bruffey, National Association of Theater Owners].Those were the "good old days," or at least that's what baby boomers try to tell you. What they fail to mention is that the richest guy on the block in 1967 made \$19,000 a year, or that 60 percent of American households earned less than \$8,300 a year [source: U.S. Census]. Suddenly, a dollar for a movie ticket doesn't sound so cheap.In 2019, the 60th percentile of U.S. household income was \$50,010, more than six times as much as 1967. The average price of a new car in the U.S. in 2019 was more than \$36,000, about 12 times as much as 1967. And the average price of a movie ticket in 2019 was \$9.16 – a nine-fold increase [source: National Association of Theater Owners]. Why have prices and incomes increased from 1967 to 2019? It's called inflation.Inflation is the economic term for a persistent rise in prices over time. To get technical, inflation is not so much about an increase in prices, but the decrease in the buying power of the dollar. A dollar in 1967 bought you a movie ticket, while the same dollar in 2019 bought you one-ninth of a movie ticket.Inflation is measured in percentage change from year to year. Since 1992, the U.S. rate of inflation has fluctuated between -2.1 percent and 5.4 percent [source: US Inflation Calculator]. If inflation rose 3 percent from 1995 to 1996, a stick of gum that cost \$1 in 1995 would cost \$1.03 in 1996. An extra three pennies won't break the bank, but in the late 1970s and early 1980s, the U.S. experienced inflation as high as 13.5 percent. That was enough to make everyday commodities like food and gasoline nearly unaffordable.It's one thing to know what inflation is – rising prices, or the lower buying power of the dollar – but another thing entirely to understand what causes it. Complicated economic theories abound, but we'll simplify the leading contenders on the next page.

how fast (mph) does an airbag inflate. how fast does a vehicle airbag inflate

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