



The job of making monetary policy often is a balancing act, as the Fed has to make sure that money and credit don't grow either too slowly or too rapidly.



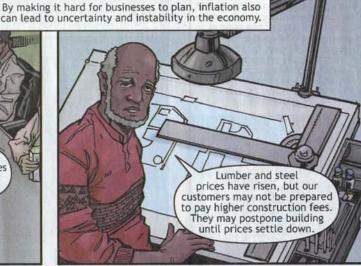






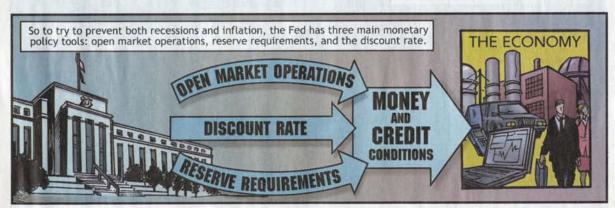










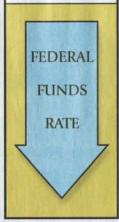


Open market operations are purchases and sales by the Fed of U.S. government securities, which are large IOUs of the federal government. When the Fed buys securities, it pays for them by crediting the amount of the purchase to the account that the seller's bank has at the Fed. The bank, in turn, credits the seller's account.



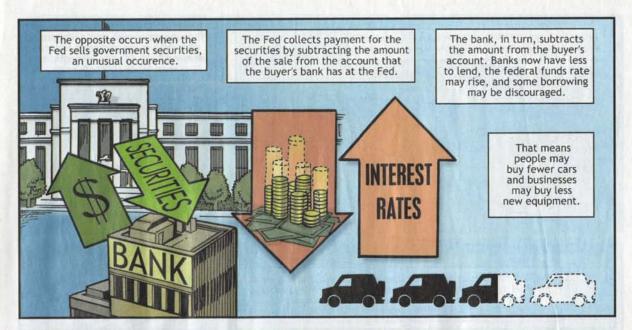


In that way, open market purchases tend to lower the federal funds rate, the interest rate that banks charge each other on very short-term loans.

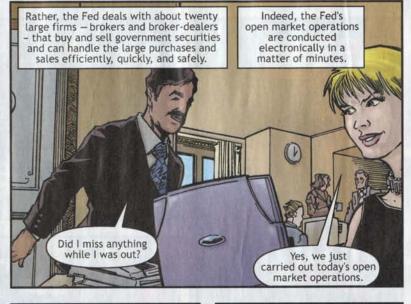




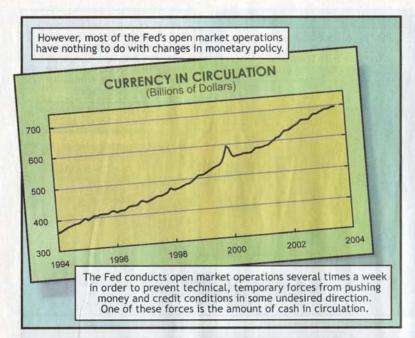












The amount of cash that people have with them is not constant. It varies seasonally, by day of the month, and even by day of the week.





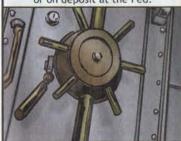




So, when people hold more cash, the amount of funds that banks have to lend goes down. That could cause interest rates to rise if the Fed didn't use open market operations to offset the drop in bank funds.



Reserve requirements are another, though far less frequently used, tool of monetary policy. Reserve requirements are the percentages of certain deposits that banks must have either in their own vaults or on deposit at the Fed.



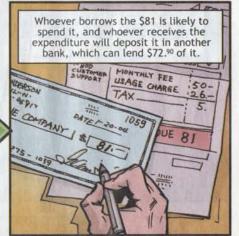
For example, if the reserve requirement is 10%, a bank that receives a \$100 deposit must have \$10 in its vault or at its Federal Reserve Bank.



Reserve requirements are a powerful tool, because they affect the ability of the banking system to create money.



That's right - banks create money. Suppose, for example, that somebody borrows the \$90 and pays a bill with it. Whoever receives the \$90 payment is likely to deposit it in another bank, which can then lend 90% of the \$90, or \$81.



As the process continues, the banking system will expand an initial \$100 deposit into as much as \$1,000 of deposits. These deposits are considered part of the nation's money supply.

\$100+\$90+\$81+\$72.90+ ... + ... = \$1.000

By law, the Fed can set the reserve requirement on checking accounts anywhere from 8% to 14%. If the requirement were 14%, rather than 10%, the bank that received the \$100 deposit would keep \$14 on reserve and lend a maximum of \$86, rather than \$90...





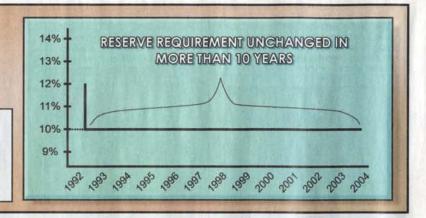
... and the next bank would be able to lend just 86% of \$86, or \$73.%, rather than \$81.

With a 14% reserve requirement, the banking system would be able to expand the initial \$100 deposit into just \$714, rather than \$1,000.

\$100+\$86+\$73.96+\$63.61+ ... + ... = \$714

So, reserve requirements are a powerful tool, as they affect the ability of the banking system to create money. However, the Fed rarely changes reserve requirements.

Since cutting the reserve requirement on checking accounts from 12% to 10% in April 1992, the Fed has not changed the requirement.



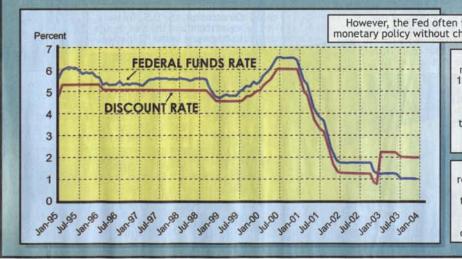


Also, when the Fed has to reduce the growth of money and credit, it would rather not do so by raising reserve requirements, because the requirements impose a kind of tax or cost on banks.



Still another tool of monetary policy involves the discount rate, the interest rate that the Fed charges banks on short-term loans. Changes in the discount rate can influence other interest rates.





However, the Fed often implements changes in monetary policy without changing the discount rate.

> For example, between mid-1995 and the end of 1998, the Fed changed its target for the federal funds rate on seven occasions, but on only three of those occasions did it change the discount rate.

The discount rate refers to a primary credit rate on loans to the financially strongest banks and a higher secondary credit rate on loans to other banks.

The Federal Reserve also affects the U.S. economy when it intervenes for the U.S. monetary authorities - the Treasury Department and the Fed - in the foreign exchange markets, in which dollars are exchanged for foreign currencies such as the Japanese yen and the euro.



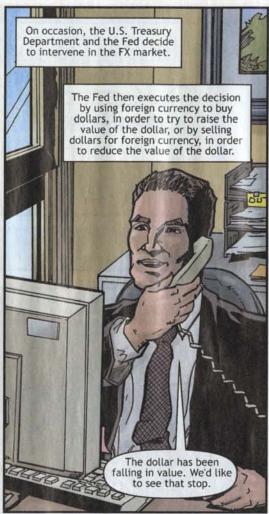
The foreign exchange (FX) value of the dollar is growing in importance as international trade and finance expand. Exports, for example, now account for almost 12% of the output of the U.S. economy, up from less than 5% in the early '60s.

U.S. EXPORTS AS PERCENT OF GDP 14 12 10 8 6 4 2 0 1963 1966 1969 1972 1975 1978 1981 1984 1987 1990 1993 1996 1999 2002 2005

The FX value of the dollar can affect the economy in a number of ways. If the dollar appreciates (rises in value), foreigners have to pay more in their currencies to buy U.S. goods. The higher effective price, in turn, could lead foreigners to buy fewer U.S. goods, causing some U.S. companies to lose profits.







These interventions are small compared with the total amount of FX trading, so they don't influence supply and demand conditions in the currency market. Rather, they influence market sentiment relating to the foreign exchange value of the dollar.



So far, we've seen that the Fed has various ways to foster a healthy economic climate. The Fed also provides banks with services that help the economy function smoothly. Some of these activities make it easier for people to make payments. For instance, the Fed provides banks with cash to meet their customers' needs.



On the other hand, when banks have more cash than they need, they ship the excess to the Fed for credit to their accounts.



The Fed uses high-speed machines to count the bills that the banks deposit. These state-of-the-art machines also check the denomination of each bill.







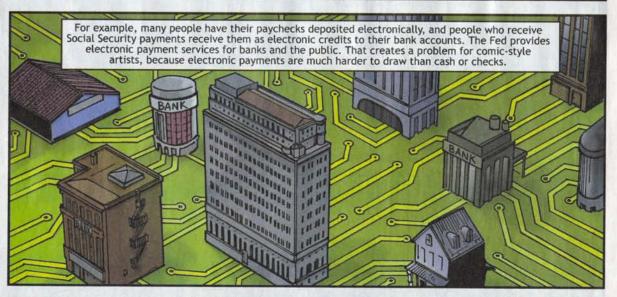


The New York Fed will then send the check to the Federal Reserve Bank of San Francisco, which will subtract the amount of the check from the account that your bank has at the San Francisco Fed, and then send the check to your bank, which will subtract the amount from your account.



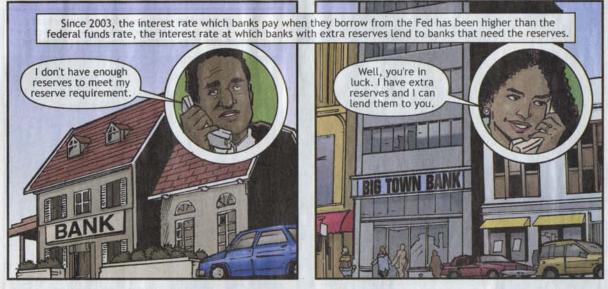
While cash or checks are used for most transactions, the dollar volume of electronic payments is much larger than that of checks and cash combined.

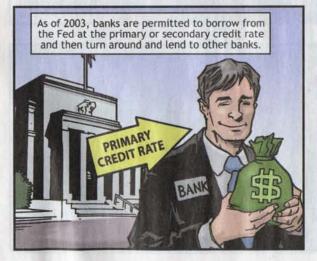


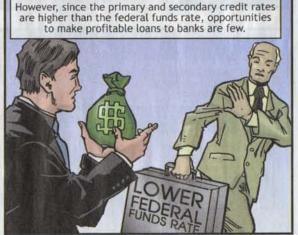








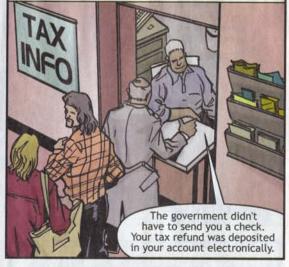








Thus, people who get federal income tax refunds, whether by check or by electronic payment, receive the payments from a government account at the Fed.

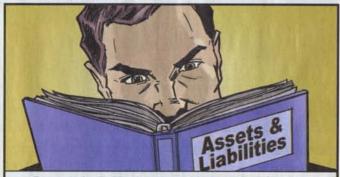






Another responsibility of the Federal Reserve (one that it shares with some other government agencies) is to supervise banks in order to make sure they operate safely and soundly, and are sensitive to risks.





For example, Fed bank examiners look at banks' financial statements to make sure that the banks have enough capital (funds of their own) to withstand risks from a downturn in the economy or unpaid loans.

The Fed also examines banks' operating procedures to make sure that they are not too susceptible to theft or fraud by their employees or by others.



When the Fed finds a problem in the way a bank operates, it often can be resolved without penalty or any other supervisory action.





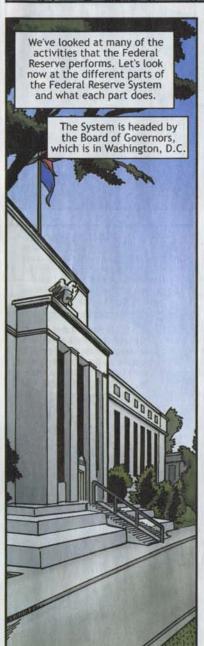
Besides supervising banks for safety and soundness, the Fed considers applications by banks for mergers or to open new branches. The purpose of the approval process is to make sure the banking system remains competitive and operates in the public interest. I think the merger will allow the bank to operate more efficiently and serve the public better. MEETING HALL FEDERAL RESERVE HEARING PROPOSED BANK MERGER TUESDAY, NOV. 19 9:30 AM



In addition, the Fed monitors compliance with the Equal Credit Opportunity Act, which says that people may not be denied credit on the basis of race, religion, sex or certain other factors.











the same time. One term expires every two years. The staggered 14-year terms reduce the influence of politics on the Fed.

If all the Fed's governors complete their terms, I'll be able to appoint only two governors in my four-year term.

Also, the 14-year terms are staggered. That means they don't all expire at

Another factor that promotes the Fed's political independence is that the Fed does not have to rely on appropriations from Congress.



The Fed is financially self-sufficient.
Its income comes predominantly
from interest it receives on its holdings
of U.S. government securities.



Not only is the Fed financially self-sufficient, but it actually takes in much more income each year than it spends. The Fed returns to the U.S. Treasury the excess of what



Of course, the Fed's independence is far from total. By law, the chairman of the Federal Reserve has to testify before Congress at least twice a year regarding the Fed's monetary policy.



Also, it was Congress that created the Fed. The U.S. Constitution gives Congress the power to coin and regulate the value of money, and Congress has decided to delegate that authority to the Fed. At times, Congress has changed the Fed's powers



For example, in 1980, Congress passed a law saying that all banks in the United States have to meet the Fed's reserve requirements. Until then, only banks that belonged to the Federal Reserve System had to meet them.

If all banks have to meet the Fed's reserve requirements, the Fed will be able to do a better job of influencing money and credit conditions.

And that should help the economy grow without inflation.

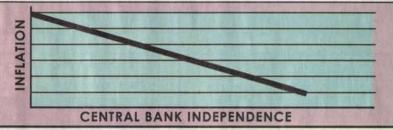
In any case, the Fed is more independent than other parts of the government.



Interestingly, other countries have taken steps in recent years to increase the political independence of their central banks.



That's because independence helps a central bank focus on long-term economic problems. Indeed, research shows that countries with more central bank independence tend to be more successful in controlling inflation than other countries.



In addition to the Board of Governors, the Fed consists of 12 Federal Reserve Banks spread around the country. The Reserve Banks provide financial services for the U.S. government, supervise banks in their districts, and provide banks with services, such as the provision and storage of cash, loans, and check processing.



This map shows the location of the Reserve Banks and the district that each one serves. As shown on the map, the Reserve Banks are concentrated in the eastern half of the United States. That's because when the Fed was created, U.S. population, business and financial activities were far more concentrated in the east than they are now.



Both the Board of Governors and the Reserve Banks play a role in the monetary policy process. The Board of Governors sets reserve requirements.

Each Reserve Bank sets its primary and secondary credit rates every two weeks, subject to the approval of the Board of Governors. (Because the United States has a national credit market, the discount rate, and now the primary and secondary credit rates have, for many decades, been uniform throughout the Federal Reserve System.)

Meanwhile, monetary policy is determined by a group called the Federal Open Market Committee (FOMC), which meets in Washington, D.C., eight times a year.

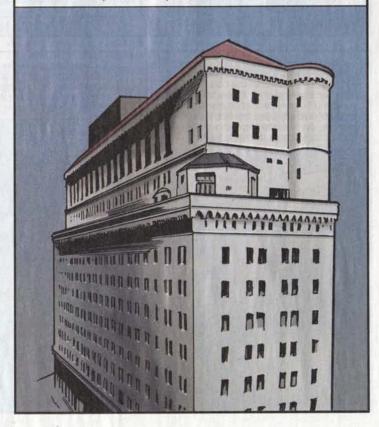


The meetings are attended by the members of the Board of Governors and the presidents of all 12 Reserve Banks. There are only 12 voting members, however — the seven governors and five of the Reserve Bank presidents.

Jan 1, 2006 NEW YORK CLEVELAND RICHMOND ATLANTA SAN FRANCISCO Jan 1, 2007 NEW YORK CHICAGO BOSTON ST. LOUIS KANSASGITY Jan 1, 2008 NEW YORK CLEVELAND PHILADELPHIA DALLAS MINNEAPOLIS

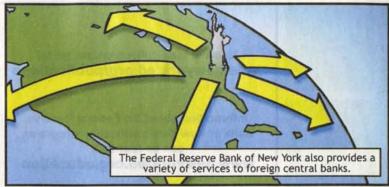
The president of the Federal Reserve Bank of New York is always a voting member, and the presidents of the other Reserve Banks rotate one-year terms as voting members.

There are several reasons why the president of the New York Fed is a permanent voting member of the FOMC. One is that the New York Fed conducts all the open market operations for the Federal Reserve System.



In addition, when the U.S. monetary authorities intervene in the foreign exchange market, the intervention is carried out by the New York Fed.

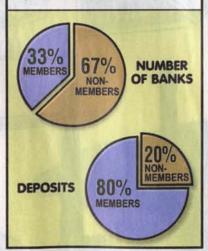




For example, the New York Fed stores billions of dollars' worth of gold for foreign central banks. The gold makes a dramatic sight, and the Federal Reserve Bank of New York invites visitors to see it. (Indeed, each year, more that 25,000 visitors do just that.)



Fewer than half the banks in the country – about 33% – are members of the Federal Reserve System. However, they tend to be the larger banks, and they have about eighty percent of all U.S. bank deposits.



The member banks choose six members of the board of directors of their local Reserve Bank, and the Board of Governors chooses the three other directors, including the chairman and deputy chairman.

