Fiat money

Fiat money is a <u>currency</u> (a <u>medium of exchange</u>) established as <u>money</u>, often by government regulation. Fiat money does not have <u>intrinsic value</u> and does not have <u>use value</u>. It has value only because a government maintains its value, or because parties engaging in exchange agree on its value. It was introduced as an alternative to <u>commodity money</u> (a medium which has its own intrinsic value) and <u>representative money</u> (money which represents something with intrinsic value). Representative money is similar to fiat money, but it represents a claim on a commodity (which can be redeemed to a greater or lesser extent). [2][3][a]



Yuan dynasty banknotes are a medieval form of fiat money.

Government-issued fiat money <u>banknotes</u> were used first during the 11th century in <u>China</u>. [4] Fiat money started to predominate during the

20th century. Since <u>President Nixon</u>'s decision to <u>decouple the US dollar from gold</u> in 1971, a system of national fiat currencies has been used globally.

Fiat money can be:

- Any money declared by a government to be legal tender. [5]
- State-issued money which is neither convertible through a <u>central bank</u> to anything else nor fixed in value in terms of any objective standard.
- Money used because of government decree. [2]
- An otherwise non-valuable object that serves as a medium of exchange [7] (also known as fiduciary money.)[8]

The term *fiat* derives from the <u>Latin</u> word *fiat*, meaning "let it be done" used in the sense of an order, decree [2] or resolution. [10]

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Treatment in economics

In <u>monetary economics</u>, fiat money is an intrinsically valueless object or record that is accepted widely as a means of payment. [11] Modern theories of money try to explain that the value of fiat money is greater than the value of its metal content. This stands in contrast with earlier monetary theories from the [12] Which were more similar to the coins-as-commodity valuation of the Arrow-Debreu model.

One justification for fiat money comes from a micro-founded model. In most economic models, agents are <u>intrinsically happier</u> when they have more money. In a model by Lagos and Wright, fiat money doesn't have an intrinsic worth but agents get more of the goods they want when they trade assuming fiat money is valuable. Fiat money's value is <u>created internally</u> by the community and, at equilibrium, makes otherwise infeasible trades possible. [13]

Another mathematical model that explains the value of fiat money comes from <u>Game Theory</u>. In a game where agents produce and trade objects, there can be multiple <u>Nash equilibria</u> where agents settle on stable behavior. In a model by Kiyotaki and Wright, an object with no intrinsic worth can have value during trade in one (or more) of the Nash Equilibria. [14]

History

China

China has a long <u>history with paper money</u>, beginning in the 7th century. During the 11th century, the government established a monopoly on its issuance, and about the end of the 12th century, convertibility was suspended. The use of such money became widespread during the subsequent $\underline{\underline{Yuan}}$ and $\underline{\underline{Ming}}$ dynasties.

The <u>Song Dynasty</u> in China was the first to issue paper money, *jiaozi*, about the 10th century AD. Although the notes were valued at a certain exchange rate for gold, silver, or silk, conversion was never allowed in practice. The notes were initially to be redeemed after three years' service, to be replaced by new notes for a 3% service charge, but, as more of them were printed without notes being retired, inflation became evident. The government made several attempts to maintain the value of the paper money by demanding taxes partly in currency and making other laws, but the damage had been done, and the notes became disfavored. [17]

The succeeding <u>Yuan Dynasty</u> was the first dynasty of China to use paper currency as the predominant circulating medium. The founder of the Yuan Dynasty, <u>Kublai Khan</u>, issued paper money known as <u>Jiaochao</u> during his reign. The original notes during the Yuan Dynasty were restricted in area and duration as in the Song Dynasty.

During the 13th century, Marco Polo described the fiat money of the Yuan Dynasty in his book *The Travels of Marco Polo*. [18][19]

All these pieces of paper are issued with as much solemnity and authority as if they were of pure gold or silver... and indeed everybody takes them readily, for wheresoever a person may go throughout the Great Kaan's dominions he shall find these pieces of paper current, and shall be able to transact all sales and purchases of goods by means of them just as well as if they were coins of pure gold.

— Marco Polo, The Travels of Marco Polo

Europe

Washington Irving records an emergency use of paper money by the Spanish for a siege during the Conquest of Granada (1482–1492). In 1661, Johan Palmstruch issued the first regular paper money in the West, by royal charter from the Kingdom of Sweden, through a new institution, the Bank of Stockholm. While this private paper currency was largely a failure, the Swedish parliament eventually assumed control of the issue of paper money in the country. By 1745, its paper money was inconvertible to specie, but acceptance was mandated by the government. [20] This fiat currency



Song Dynasty *Jiaozi*, the world's earliest paper money.

depreciated so rapidly that by 1776 it was returned to a silver standard. Fiat money also has other beginnings in 17th-century Europe, having been introduced by the Bank of Amsterdam in 1683. [21]

New France 1685-1770

In 17th century New France, now part of Canada, the universally accepted medium of exchange was the beaver pelt. As the colony expanded, coins from France came to be used widely, but there was usually a shortage of French coins. In 1685, the colonial authorities in New France found themselves seriously short of money. A military expedition against the <u>Iroquois</u> had gone badly and tax revenues were down, reducing government money reserves. Typically, when short of funds, the government would simply delay paying merchants for purchases, but it was not safe to delay payment to soldiers due to the risk of mutiny.

Jacques de Meulles, the Intendant of Finance, conceived an ingenious ad hoc solution — the temporary issuance of paper money to pay the soldiers, in the form of playing cards. He confiscated all the playing cards in the colony, had them cut into pieces, wrote denominations on the pieces, signed them, and issued them to the soldiers as pay in lieu of gold and silver. Because of the chronic shortages of money of all types in the colonies, these cards were accepted readily by merchants and the public and circulated freely at face value. It was intended to be purely a temporary expedient, and it was not until years later that its role as a medium of exchange was recognized. The first issue of playing card money occurred during June 1685 and was redeemed three months later. However, the shortages of coinage reoccurred and more issues of card money were made during subsequent years. Because of their wide acceptance as money and the general shortage of money in the colony, many of the playing cards were not redeemed but continued to circulate, acting as a useful substitute for scarce gold and silver coins from France. Eventually, the Governor of New France acknowledged their useful role as a circulating medium of exchange. [22]

As the finances of the French government deteriorated because of European wars, it reduced its financial assistance to its colonies, so the colonial authorities in Canada relied more and more on card money. By 1757, the government had discontinued all payments in coin and payments were made in paper instead. In an application of <u>Gresham's Law</u> – bad money drives out good – people <u>hoarded</u> gold and silver, and used paper money instead. The costs of the <u>Seven Years' War</u> resulted in <u>rapid inflation</u> in New France. After the <u>British conquest</u> in 1760, the paper money became almost worthless, but business did not end because gold and silver

that had been hoarded came back into circulation. By the <u>Treaty of Paris (1763)</u>, the French government agreed to convert the outstanding card money into <u>debentures</u>, but with the French government <u>essentially</u> bankrupt, these bonds were defaulted and by 1771 they were worthless.

The <u>Royal Canadian Mint</u> still issues Playing Card Money in commemoration of its history, but now in 92.5% silver form with gold plate on the edge. It therefore has an <u>intrinsic value</u> which considerably exceeds its fiat value. [23] The Bank of Canada and Canadian economists often use this early form of paper currency to illustrate the true nature of money for Canadians. [22]

18th and 19th century

An early form of fiat currency in the <u>American Colonies</u> was "bills of <u>credit</u>." Provincial governments produced notes which were fiat currency, with the promise to allow holders to pay taxes with those notes. The notes were issued to pay current obligations and could be used for taxes levied at a later time. Since the notes were denominated in the local unit of account, they were circulated from person to person in non-tax transactions. These types of notes were issued particularly in <u>Pennsylvania</u>, <u>Virginia</u> and <u>Massachusetts</u>. Such money was sold at a discount of silver, which the government would then spend, and would expire at a fixed date later. [25]

Bills of credit have generated some controversy from their inception. Those who have wanted to emphasize the dangers of inflation have emphasized the colonies where the bills of credit depreciated most dramatically: New England and the Carolinas. [25] Those who have wanted to defend the use of bills of credit in the colonies have emphasized the middle colonies, where inflation was practically nonexistent. [25]

Colonial powers consciously introduced fiat currencies backed by taxes (e.g., <u>hut taxes</u> or <u>poll taxes</u>) to mobilise economic resources in their new possessions, at least as a transitional arrangement. The purpose of such taxes was later served by <u>property taxes</u>. The repeated cycle of deflationary hard money, followed by inflationary paper money continued through much of the

Adoption of 'Gold Standard' (Paper currency convertible into gold)^[24]

Country	Year
United Kingdom	1821
Germany	1871
Sweden	1873
United States (de facto)	1873
France	1874
Belgium	1874
Italy	1874
Switzerland	1874
Netherlands	1875
Austria-Hungary	1892
Japan	1897
Russia	1898
United States (de jure)	1900

18th and 19th centuries. Often nations would have dual currencies, with paper trading at some discount to money which represented specie.

Examples include the "Continental" bills issued by the <u>U.S. Congress</u> before the <u>United States Constitution</u>; paper versus gold <u>ducats</u> in <u>Napoleonic</u> era <u>Vienna</u>, where paper often traded at 100:1 against gold; the <u>South Sea Bubble</u>, which produced bank notes not representing sufficient reserves; and the <u>Mississippi Company</u> scheme of John Law.

During the American Civil War, the Federal Government issued <u>United States Notes</u>, a form of paper fiat currency known popularly as 'greenbacks'. Their issue was limited by Congress at slightly more than \$340 million. During the 1870s, withdrawal of the notes from circulation was opposed by the <u>United States</u> Greenback Party. It was termed 'fiat money' in an 1878 party convention. [26]

20th century

After <u>World War I</u>, governments and banks generally still promised to convert notes and coins into their nominal commodity (redemption by <u>specie</u>, typically gold) on demand. However, the costs of the war and the required repairs and economic growth based on government borrowing afterward made governments suspend

redemption by specie. Some governments were careful of avoiding <u>sovereign default</u> but not wary of the consequences of paying debts by consigning newly printed cash not associated with a metal standard to their creditors, which resulted in hyperinflation – for example the hyperinflation in the Weimar Republic.

From 1944 to 1971, the <u>Bretton Woods agreement</u> fixed the value of 35 United States dollars to one <u>troy ounce</u> of gold. Other currencies were calibrated with the U.S. dollar at fixed rates. The U.S. promised to redeem dollars with gold transferred to other national banks. Trade imbalances were corrected by gold reserve exchanges or by loans from the International Monetary Fund (IMF).

The Bretton Woods system was ended by what became known as the <u>Nixon shock</u>. This was a series of economic changes by United States President <u>Richard Nixon</u> in 1971, including unilaterally canceling the direct <u>convertibility</u> of the <u>United States dollar</u> to <u>gold</u>. Since then, a system of national fiat monies has been used globally, with variable exchange rates between the major currencies. [28]

Precious metal coinage

During the 1960s, production of <u>silver coins</u> for circulation ceased when the <u>face value</u> of the coin was less than the cost of the <u>precious metal</u> they contained (whereas <u>it had been greater historically</u>). In the United States, the <u>Coinage Act of 1965</u> eliminated <u>silver</u> from circulating dimes and quarter dollars, and most other countries did the same with their coins. <u>[29]</u> The Canadian penny, which was mostly <u>copper</u> until 1996, was removed from circulation altogether during the autumn of 2012 due to the cost of production relative to face value. <u>[30]</u>

In 2007, the Royal Canadian Mint produced a million dollar <u>gold</u> <u>bullion coin</u> and sold five of them. In 2015, the gold in the coins was worth more than 3.5 times the face value. $\frac{[31]}{}$

Money creation and regulation

A <u>central bank</u> introduces new money into an economy by purchasing <u>financial assets</u> or lending money to financial institutions. <u>Commercial banks</u> then redeploy or repurpose this base money by credit creation through fractional reserve banking, which expands the total supply of "broad money" (cash plus demand deposits).

In modern economies, relatively little of the supply of broad money is physical currency. For example, in December 2010 in the U.S., of the \$8,853.4 billion of broad money supply (M2), only \$915.7 billion (about 10%) consisted of physical coins and paper money. [32] The manufacturing of new physical money is usually the responsibility of the national bank, or sometimes, the government's treasury.

The <u>Bank for International Settlements</u> published a detailed review of payment system developments in the Group of Ten (G10) countries in 1985, in the first of a series that has become known as "red books". Currently the red books cover the participating countries on Committee on Payments and Market Infrastructures (CPMI). A red book summary of the value of banknotes and coins in circulation is shown in the table below where the local currency is converted to US dollars using the end of the year rates. The value of this physical currency as a percentage of GDP ranges from a maximum of 19.4% in Japan to a minimum of 1.7% in Sweden with the overall average for all countries in the table being 8.9% (7.9% for the US).

Banknotes and coins in circulation (as of 31/12/2015)

Country	Billions of dollars	Per capita
United States	\$1,425	\$4,433
Eurozone	\$1,210	\$3,571
Japan	\$857	\$6,739
India	\$251	\$195
Russia	\$117	\$799
United Kingdom	\$103	\$1,583
Switzerland	\$76	\$9,213
Korea	\$74	\$1,460
Mexico	\$72	\$599
Canada	\$59	\$1,641
Brazil	\$58	\$282
Australia	\$55	\$2,320
Saudi Arabia	\$53	\$1,708
Hong Kong SAR	\$48	\$6,550
Turkey	\$36	\$458
Singapore	\$27	\$4,911
Sweden	\$9	\$872
South Africa	\$6	\$113
Total/Average	\$4,536	\$1,558

The most notable currency not included in this table is the Chinese <u>yuan</u>, for which the statistics are listed as "not available".

Inflation

The adoption of fiat currency by many countries, from the 18th century onwards, made much larger variations in the supply of money possible. Since then, huge increases in the supply of paper money have occurred in a number of countries, producing hyperinflations – episodes of extreme inflation rates much greater than those observed during earlier periods of commodity money. The hyperinflation in the Weimar Republic of Germany is a notable example.

Economists generally believe that high rates of inflation and hyperinflation are caused by an excessive growth of the money supply. Presently, most economists favor a small and steady rate of inflation. Small (as opposed to zero or negative) inflation reduces the severity of economic recessions by enabling the labor market to adjust more quickly to a recession, and reduces the risk that a liquidity trap (a reluctance to lend money due to low rates of interest) prevents monetary policy from stabilizing the economy. However, money supply growth does not always cause nominal increases of price. Money supply growth may instead result in stable prices at a time in which they would otherwise be decreasing. Some economists maintain that with the conditions of a liquidity trap, large monetary injections are like "pushing on a string". [38][39].

The task of keeping the rate of inflation small and stable is usually given to <u>monetary authorities</u>. Generally, these monetary authorities are the <u>national banks</u> that control monetary policy by the setting of <u>interest rates</u>, by open market operations, and by the setting of banking reserve requirements. [40]

Loss of backing

A fiat-money currency greatly loses its value should the issuing government or <u>central bank</u> either lose the ability to, or refuse to, continue to guarantee its value. The usual consequence is <u>hyperinflation</u>. Some examples of this are the <u>Zimbabwean dollar</u>, <u>China's money during 1945</u> and the <u>Weimar Republic's mark during 1923</u>. A more recent example is the <u>currency instability in Venezuela that began in 2016</u> during the country's ongoing socioeconomic and political crisis.

But this need not necessarily occur, especially if a currency continues to be the most easily available; for example, the pre-1990 <u>Iraqi dinar</u> continued to retain value in the <u>Kurdistan Regional Government</u> even after its legal tender status was ended by the Iraqi government which issued the notes. [41][42]

See also

- Criticism of the Federal Reserve
- Cryptocurrency
- Debasement
- Fractional-reserve banking
- Hard currency
- Hyperinflation
- Modern monetary theory
- Money creation
- Money supply
- Network effect
- Seigniorage
- Silver coin
- Silver standard

Notes

a. See Monetary economics for further discussion.

References

- 1. Goldberg, Dror (2005). "Famous Myths of "Fiat Money" ". *Journal of Money, Credit and Banking*. **37** (5): 957–967. doi:10.1353/mcb.2005.0052 (https://doi.org/10.1353%2Fmcb.2005.0 052). JSTOR 3839155 (https://www.jstor.org/stable/3839155). S2CID 54713138 (https://api.semanticscholar.org/CorpusID:54713138).
- 2. N. Gregory Mankiw (2014). <u>Principles of Economics</u> (https://books.google.com/books?id=3ubK <u>AgAAQBAJ&pg=PA220</u>). p. 220. <u>ISBN 978-1-285-16592-9</u>. "fiat money: money without intrinsic value that is used as money because of government decree"
- 3. Walsh, Carl E. (2003). *Monetary Theory and Policy* (https://archive.org/details/monetarytheoryp o0000wals). The MIT Press. ISBN 978-0-262-23231-9.

- 4. Peter Bernholz (2003). *Monetary Regimes and Inflation: History, Economic and Political Relationships*. Edward Elgar Publishing. p. 53. ISBN 978-1-84376-155-6.
- 5. Montgomery Rollins (1917). *Money and Investments* (https://books.google.com/books?id=GqRlvgAACAAJ&q=Money+and+Investments+Montgomery+Rollins). George Routledge & Sons. ISBN 9781358416323. Archived (https://web.archive.org/web/20161227060423/https://books.google.co.uk/books?id=GqRlvgAACAAJ&dq=Money+and+Investments+Montgomery+Rollins&hl=en&sa=X&redir_esc=y) from the original on December 27, 2016. "Fiat Money. Money which a government declares shall be accepted as legal tender at its face value;"
- 6. John Maynard Keynes (1965) [1930]. "1. The Classification of Money". *A Treatise on Money*. **1**. Macmillan & Co Ltd. p. 7. "*Fiat Money* is Representative (or token) Money (*i.e* something the intrinsic value of the material substance of which is divorced from its monetary face value) now generally made of paper except in the case of small denominations which is created and issued by the State, but is not convertible by law into anything other than itself, and has no fixed value in terms of an objective standard."
- 7. Blume, Lawrence E; (Firm), Palgrave Macmillan; Durlauf, Steven N (2019). *The new Palgrave dictionary of economics*. Palgrave Macmillan (Firm) (Living Reference Work ed.). United Kingdom. ISBN 9781349951215. OCLC 968345651 (https://www.worldcat.org/oclc/968345651).
- 8. "The Four Different Types of Money Quickonomics" (https://quickonomics.com/different-types-of-money/). *Quickonomics*. September 17, 2016. Archived (https://web.archive.org/web/201802 13195105/https://quickonomics.com/different-types-of-money/) from the original on February 13, 2018. Retrieved February 12, 2018.
- 9. Fiat is the third-person singular present active subjunctive of \underline{fio} ("I become", "I am made").
- 10. Schueffel, Patrick (2017). <u>The Concise Fintech Compendium</u> (https://web.archive.org/web/201 71024205446/http://www.heg-fr.ch/EN/School-of-Management/Communication-and-Events/events/Pages/EventViewer.aspx?Event=patrick-schuffel.aspx). Fribourg: School of Management Fribourg/Switzerland. Archived from the original (http://www.heg-fr.ch/EN/School-of-Management/Communication-and-Events/events/Pages/EventViewer.aspx?Event=patrick-schuffel.aspx) on October 24, 2017. Retrieved January 8, 2018.
- 11. Dror Goldberg (October 2005). "Famous Myths of "Fiat Money" ". *Journal of Money, Credit and Banking*. Ohio State University Press. **37** (5): 957–967. doi:10.1353/mcb.2005.0052 (https://doi. org/10.1353%2Fmcb.2005.0052). JSTOR 3839155 (https://www.jstor.org/stable/3839155). S2CID 54713138 (https://api.semanticscholar.org/CorpusID:54713138).
- 12. Sargent, Thomas J. (2001). *The Princeton Economic History of the Western World*. Princeton University Press. p. 70.
- 13. Lagos, Ricardo & Wright, Randall (2005). "A Unified Framework for Monetary Theory and Policy Analysis". *Journal of Political Economy*. **113** (3): 463–84. CiteSeerX 10.1.1.563.3199 (https://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.563.3199). doi:10.1086/429804 (https://doi.org/10.1086%2F429804). S2CID 154851073 (https://api.semanticscholar.org/CorpusID: 154851073)..
- 14. <u>Kiyotaki, Nobuhiro</u> & <u>Wright, Randall</u> (1989). "On Money as a Medium of Exchange". <u>Journal of Political Economy</u>. **97** (4): 927–54. <u>doi:10.1086/261634</u> (https://doi.org/10.1086%2F261634). S2CID 154872512 (https://api.semanticscholar.org/CorpusID:154872512)..
- 15. Selgin, George (2003), "Adaptive Learning and the Transition to Fiat Money", *The Economic Journal*, **113** (484): 147–65, <u>doi:10.1111/1468-0297.00094</u> (https://doi.org/10.1111%2F1468-0297.00094), S2CID 153964856 (https://api.semanticscholar.org/CorpusID:153964856).
- 16. Von Glahn, Richard (1996), Fountain of Fortune: Money and Monetary Policy in China, 1000–1700, Berkeley: University of California Press.
- 17. Ramsden, Dave (2004). "A Very Short History of Chinese Paper Money" (https://web.archive.org/web/20080609220821/http://www.financialsense.com/fsu/editorials/ramsden/2004/0617.html). James J. Puplava Financial Sense. Archived from the original (http://www.financialsense.com/fsu/editorials/ramsden/2004/0617.html) on June 9, 2008.

- 18. David Miles; Andrew Scott (January 14, 2005). *Macroeconomics: Understanding the Wealth of Nations*. John Wiley & Sons. p. 273. ISBN 978-0-470-01243-7.
- 19. Marco Polo (1818). The Travels of Marco Polo, a Venetian, in the Thirteenth Century: Being a Description, by that Early Traveller, of Remarkable Places and Things, in the Eastern Parts of the World (https://books.google.com/books?id=JetQAAAAcAAJ&pg=PA353). pp. 353–55. Retrieved September 19, 2012.
- 20. Foster, Ralph T. (2010). *Fiat Paper Money The History and Evolution of Our Currency*. Berkeley, California: Foster Publishing. pp. 59–60. **ISBN 978-0-9643066-1-5**.
- 21. "How Amsterdam Got Fiat Money" (http://www.frbatlanta.org/pubs/wp/working_paper_2010-17. cfm). www.frbatlanta.org. Archived (https://web.archive.org/web/20131110233455/http://www.frbatlanta.org/pubs/wp/working_paper_2010-17.cfm) from the original on November 10, 2013. Retrieved May 8, 2018.
- 22. Bank of Canada (2010). "New France (ca. 1600–1770)" (http://www.bankofcanada.ca/wp-content/uploads/2010/07/1600-1770.pdf) (PDF). A History of the Canadian Dollar. Bank of Canada. Archived (https://web.archive.org/web/20131002061441/http://www.bankofcanada.ca/wp-content/uploads/2010/07/1600-1770.pdf) (PDF) from the original on October 2, 2013. Retrieved February 12, 2014.
- 23. "Playing Card Money Set" (http://www.mint.ca/store/coin/playing-card-money-set-prod220020#. UvvzS_IdV8F). Royal Canadian Mint. 2014. Archived (https://web.archive.org/web/201608151 94624/http://www.mint.ca/store/coin/playing-card-money-set-prod220020#.UvvzS_IdV8F) from the original on August 15, 2016. Retrieved July 6, 2016.
- 24. "Rise and fall of the Gold Standard" (http://www.news24.com/MyNews24/Rise-and-fall-of-the-Gold-Standard-20140530). news24.com. May 30, 2014. Archived (https://web.archive.org/web/20170504121408/http://www.news24.com/MyNews24/Rise-and-fall-of-the-Gold-Standard-20140530) from the original on May 4, 2017. Retrieved May 8, 2018.
- 25. Michener, Ron (2003). "Money in the American Colonies (http://eh.net/encyclopedia/money-in-the-american-colonies/) Archived (https://web.archive.org/web/20150221072516/http://eh.net/encyclopedia/money-in-the-american-colonies/) February 21, 2015, at the Wayback Machine." EH.Net Encyclopedia, edited by Robert Whaples.
- 26. "Fiat Money". Chicago Daily Tribune. May 24, 1878.
- 27. ""Bretton Woods" Federal Research Division Country Studies (Austria)" (http://lcweb2.loc.gov/frd/cs/austria/at_glos.html). Library of Congress. Archived (https://web.archive.org/web/2010120 2070528/http://lcweb2.loc.gov/frd/cs/austria/at_glos.html) from the original on December 2, 2010.
- 28. Jeffrey D. Sachs, Felipe Larrain (1992). *Macroeconomics for Global Economies* (https://archive.org/details/macroeconomicsin0000sach). Prentice-Hall. ISBN 978-0745006086. "The Bretton Woods arrangement collapsed in 1971 when U.S. President Richard Nixon suspended the convertibility of the dollar into gold. Since then, the world has lived in a system of national fiat monies, with flexible exchange rates between the major currencies"
- 29. Dave (August 22, 2014). "Silver as Money: A History of US Silver Coins" (http://www.silvercoins.com/history-of-silver-as-money/). Silver Coins. Retrieved March 7, 2019.
- 30. Agency, Canada Revenue (June 22, 2017). "ARCHIVED Eliminating the penny from Canada's coinage system Canada.ca" (http://www.cra-arc.gc.ca/gncy/bdgt/2012/cngsystm-eng.html). www.cra-arc.gc.ca. Archived (https://web.archive.org/web/20170517021557/http://www.cra-arc.gc.ca/gncy/bdgt/2012/cngsystm-eng.html) from the original on May 17, 2017. Retrieved May 8, 2018.
- 31. "Million Dollar Coin" (http://www.mint.ca/store/mint/about-the-mint/million-dollar-coin-1600006 #). www.mint.ca. Archived (https://www.webcitation.org/6VqwLld4c?url=http://www.mint.ca/store/mint/about-the-mint/million-dollar-coin-1600006) from the original on January 25, 2015. Retrieved May 8, 2018.

- 32. "FRB: H.6 Release--Money Stock and Debt Measures--January 27, 2011" (https://www.federalr eserve.gov/releases/h6/20110127/). www.federalreserve.gov. Archived (https://web.archive.or g/web/20170710091626/https://www.federalreserve.gov/releases/h6/20110127/) from the original on July 10, 2017. Retrieved May 8, 2018.
- 33. "About the CPMI" (http://www.bis.org/cpmi/info.htm?m=3%7C16%7C29). www.bis.org. February 2, 2016. Archived (https://web.archive.org/web/20171004051401/https://www.bis.org/ cpmi/info.htm?m=3%7C16%7C29) from the original on October 4, 2017. Retrieved May 8, 2018.
- 34. "CPMI BIS Red Book: CPMI countries" (http://www.bis.org/list/cpmi/tid 57/). www.bis.org. Archived (https://web.archive.org/web/20171020070317/http://www.bis.org/list/cpmi/tid 57/) from the original on October 20, 2017. Retrieved May 8, 2018.
- 35. Robert Barro and Vittorio Grilli (1994), European Macroeconomics, Ch. 8, p. 139, Fig. 8.1. Macmillan, ISBN 0-333-57764-7.
- 36. Hummel, Jeffrey Rogers. "Death and Taxes, Including Inflation: the Public versus Economists" (January 2007). "Death and Taxes, Including Inflation: The Public versus Economists · Econ Journal Watch: Inflation, deadweight loss, deficit, money, national debt, seigniorage, taxation, velocity" (https://web.archive.org/web/20131225042059/http://econjwatch.org/articles/death-an d-taxes-including-inflation-the-public-versus-economists). Archived from the original (http://eco njwatch.org/articles/death-and-taxes-including-inflation-the-public-versus-economists) on December 25, 2013. Retrieved March 30, 2014. p. 56
- 37. "Escaping from a Liquidity Trap and Deflation: The Foolproof Way and Others (http://www.aeaw eb.org/articles.php?doi=10.1257/089533003772034934) Archived (https://web.archive.org/we b/20140226234952/http://www.aeaweb.org/articles.php?doi=10.1257%2F0895330037720349 34) February 26, 2014, at the Wayback Machine" Lars E.O. Svensson, Journal of Economic Perspectives, Volume 17, Issue 4 Fall 2003, pp. 145–66
- 38. John Makin (November 2010). "Bernanke Battles U.S. Deflation Threat" (https://www.webcitatio n.org/6M1re5gZu?url=http://67.208.89.102/files/2010/11/01/11-Nov-2010-EO-g.pdf) (PDF). AEI. Archived from the original (http://67.208.89.102/files/2010/11/01/11-Nov-2010-EO-g.pdf) (PDF) on December 21, 2013.
- 39. Paul Krugman; Gauti Eggertsson, "Debt, Deleveraging, and the liquidity trap: A Fisher-Minsky-Koo approach" (http://www.frbsf.org/economic-research/conferences/1102/eggertsson.pdf) (PDF). Archived (https://web.archive.org/web/20131217041416/http://www.frbsf.org/economic-r esearch/conferences/1102/eggertsson.pdf) (PDF) from the original on December 17, 2013.
- 40. Taylor, Timothy (2008). Principles of Economics. Freeload Press. ISBN 978-1-930789-05-0.
- 41. Foote, Christopher; Block, William; Crane, Keith & Gray, Simon (2004). "Economic Policy and Prospects in Iraq" (https://www.econstor.eu/bitstream/10419/23447/1/ppdp0401.pdf) (PDF). The Journal of Economic Perspectives. 18 (3): 47–70. doi:10.1257/0895330042162395 (https://doi. org/10.1257%2F0895330042162395)...
- 42. Budget and Finance (2003). "Iraq Currency Exchange" (https://web.archive.org/web/20070515 093736/http://www.cpa-iraq.org/budget/lraqCurrencyExchange.html). The Coalition Provisional Authority. Archived from the original (http://www.cpa-iraq.org/budget/IraqCurrencyExchange.ht ml) on May 15, 2007.

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