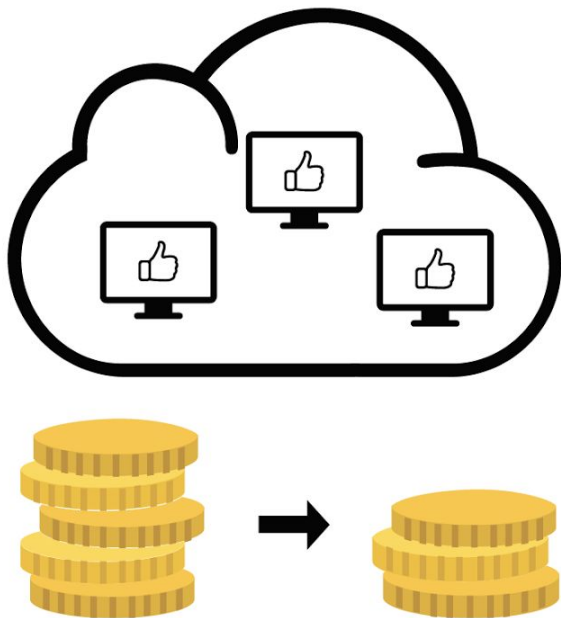
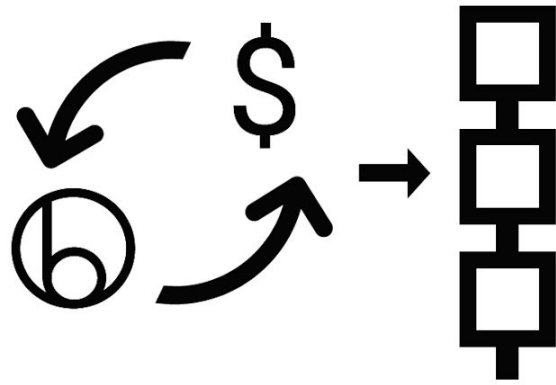


How it works (simplification)

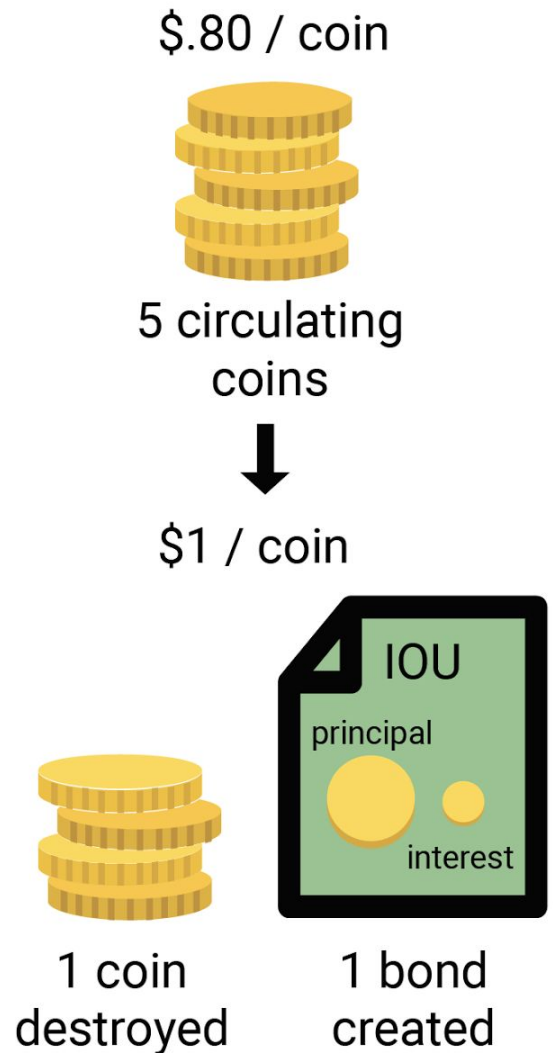
Upload an exchange rate to the blockchain using a decentralized oracle. E.g. Basecoin <-> USD.



Fixed consensus rules automatically expand and contract coin supply in response to the exchange rate to peg coin price to \$1. Using an elastic money supply to stabilize prices is at the core of nearly all central bank policy today.

When coins are trading for less than \$1, supply is contracted algorithmically, and coins are deflated, until coin price appreciates back up to \$1. This is called a “contraction.”

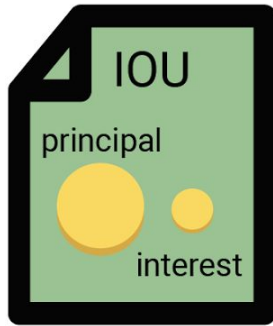
To contract coin supply, the blockchain offers coin-holders a chance to buy bonds, which pay principal plus interest in the future. Coins used to buy bonds are destroyed until the bond is paid. Coin supply decreases, price increases.



\$1.25 / coin



4 circulating coins



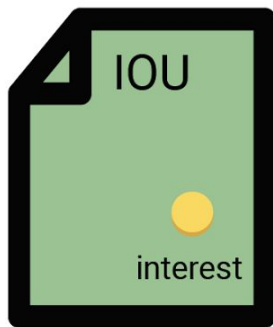
1 bond unpaid



\$1 / coin



1 new coin created

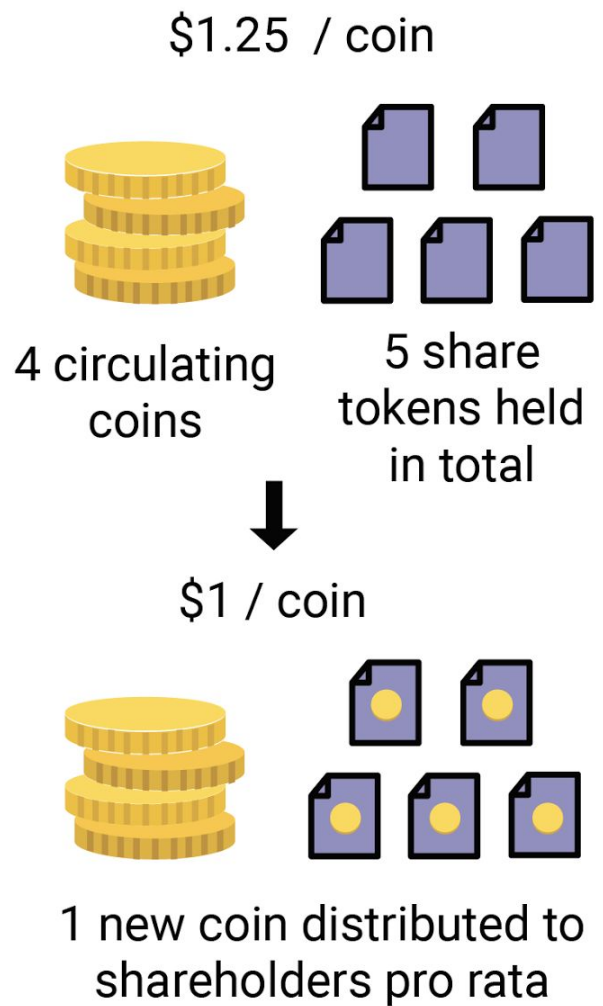


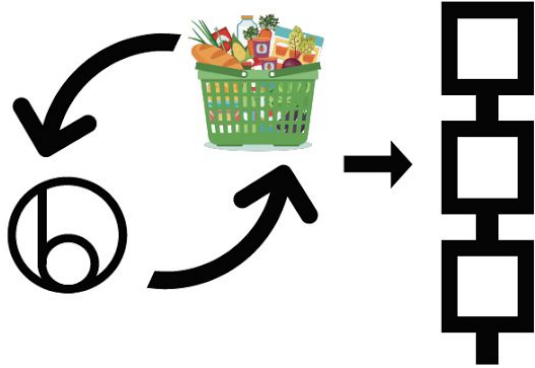
bondholder partially paid

When coins are trading for more than \$1, supply is expanded algorithmically, and coins are inflated, until coin price goes back down to \$1 per coin. This is called an “expansion.”

To increase coin supply, new coins are issued and paid to bond-holders.

If we need to expand the supply, but all existing bond-holders have been paid, new coins are issued to holders of “shares,” which are just tokens that collect new coins in lieu of bond-holders. In that sense, shareholders are “junior” to bondholders.



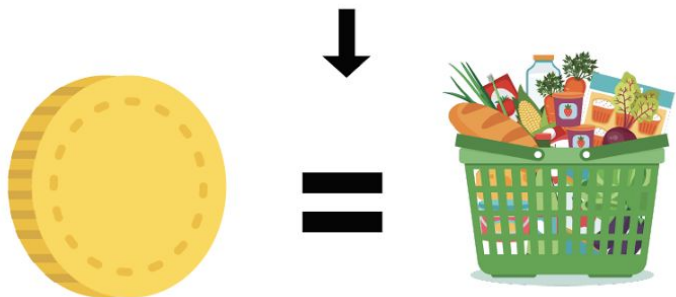


In the long run, when people use coins to purchase goods and services, the system can peg to a consumer price index (CPI) by uploading the price of a basket of goods instead of the coin \leftrightarrow USD exchange rate to the blockchain.

Thus, we peg to USD only in the short run as a bootstrapping mechanism. In the long run, we shift the peg to a CPI, eliminating dependence on fiat while maintaining decentralization, automation, and price stability.



In the short run, coins are pegged to fiat.



In the long run, coins are pegged to a basket of goods directly, eliminating dependence on fiat.