

OODS

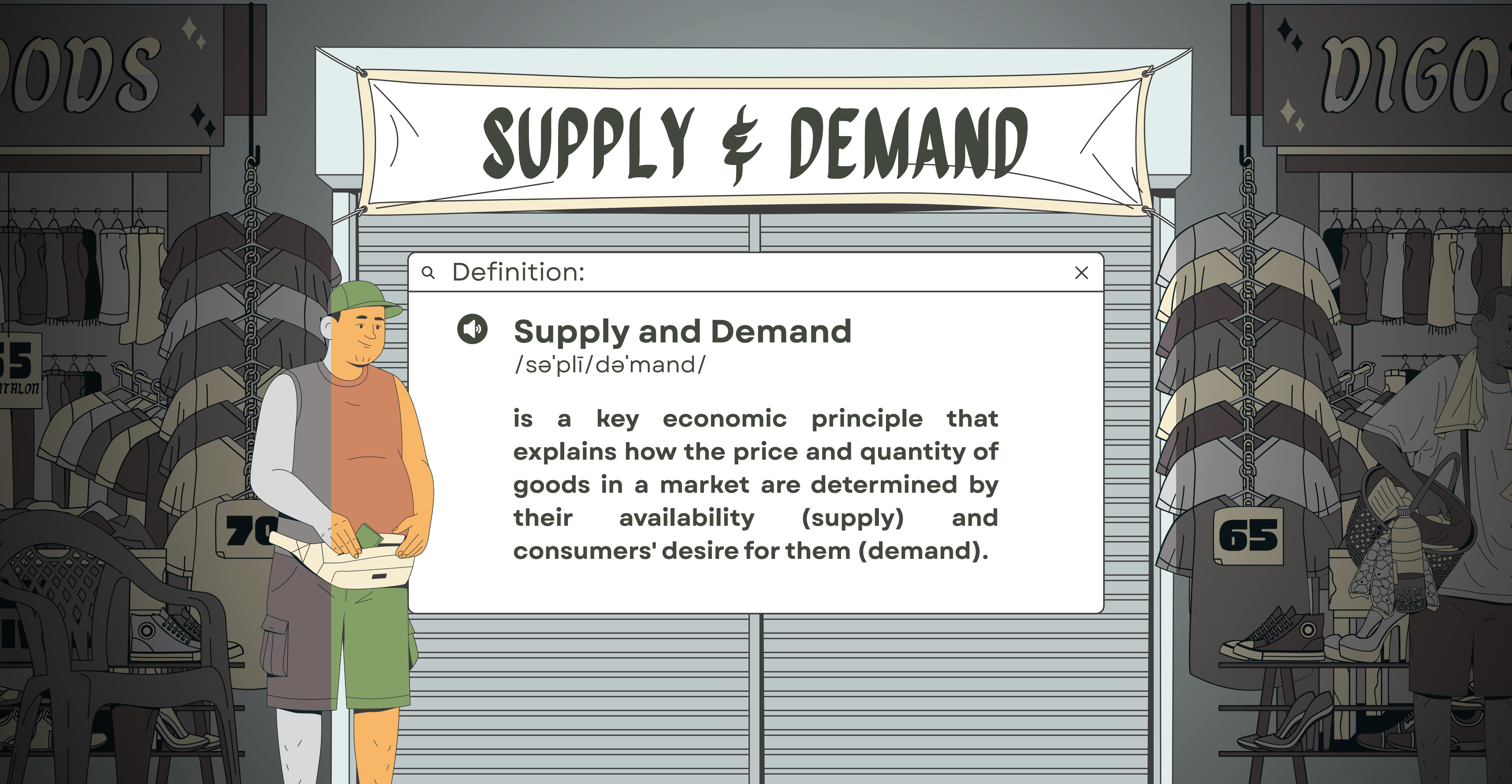


SUPPLY & DEMAND



DIGO





q Definition:



Supply and Demand

/sə'plī/də'mand/

is a key economic principle that explains how the price and quantity of goods in a market are determined by their availability (supply) and consumers' desire for them (demand).

LAW OF SUPPLY

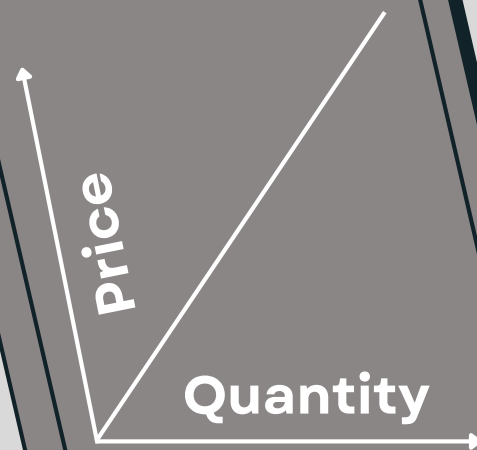


As prices rise, producers are willing to supply more of a product; as prices fall, producers are less willing to supply it.

Example:

A bakery sells cupcakes for \$2 each and produces 100 cupcakes a day. The price rises to \$4 per cupcake, so the bakery starts making 200 cupcakes daily to take advantage of the higher price.

This demonstrates that as price increases, supply increases.



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$$Q_s = c + dP$$

SUPPLY FUNCTION

- Q_s = Quantity supplied
- c = Minimum quantity supplied when price is 0
- d = Sensitivity of supply to price changes
- P = Price of the good

Example:

If $Q_s = 20 + 3P$, and the price is \$10,

$$Q_s = 20 + 3(10) = 50$$

So, 50 units will be supplied at a price of \$10.

LAW OF DEMAND



As prices rise, people tend to buy less of a product; as prices fall, people tend to buy more.

Example:

A new smartphone is released for \$1,500, and few people buy it. The company lowers the price to \$1,000, and suddenly, more customers start purchasing it.

This shows that as price decreases, demand increases.



JILIAN

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$$Q_d = a + bP$$

DEMAND FUNCTION

- Q_d = Quantity demanded
- a = Minimum quantity demanded when price is 0
- b = Sensitivity of demand to price changes
- P = Price of the good

Example:

If $Q_d = 100 - 2P$, and the price is \$20,

$$Q_d = 100 - 2(20) = 60$$

So, 60 units will be demanded at a price of \$20.

MARKET EQUILIBRIUM

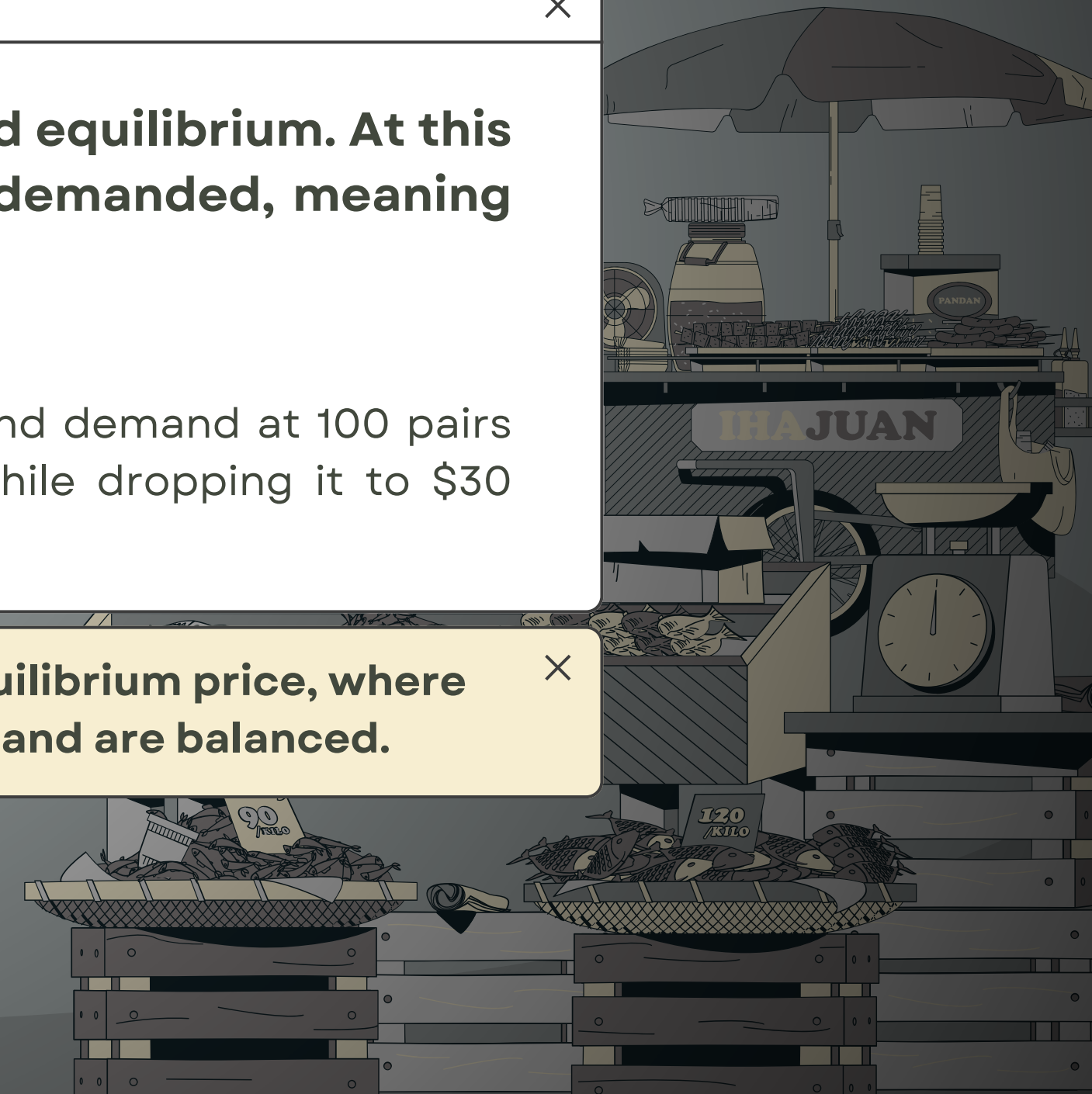
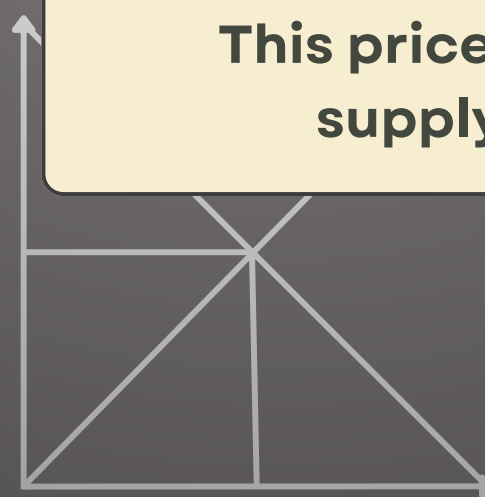


The point where supply and demand meet is called equilibrium. At this price, the quantity supplied equals the quantity demanded, meaning there is neither a surplus nor a shortage.

Example:

A store sells sneakers at \$50 per pair, matching supply and demand at 100 pairs per week. Raising the price to \$70 creates a surplus, while dropping it to \$30 causes a shortage.

This price is the equilibrium price, where supply and demand are balanced.



DRY GOODS

Market Equilibrium

To find the equilibrium price (P^*) and quantity (Q), you solve the supply and demand equations simultaneously:

- Demand Function: $Q_d = a - bP$
- Supply Function: $Q_s = c + dP$
- At Equilibrium: $a - bP = c + dP$

Rearrange to solve for P^*
(equilibrium price)

$$P^* = \frac{a - c}{b + d}$$

Substitute P^* into either the
demand or supply

$$Q^* = a - bP^* \text{ or } Q^* = c + dP^*$$

OODS

FOUR MARKET BEHAVIORS

DIGO

Market behavior refers to how supply and demand interact to determine prices and product availability. The four key behaviors are:

- Equilibrium – Supply equals demand, stabilizing prices.
- Surplus – Excess supply leads to price drops.
- Shortage – High demand with low supply raises prices.
- Shifts – External factors change supply or demand, affecting prices.