

## An Example

| An Example |  |  |  |
| :--- | :---: | :---: | :---: |
| Output Per Day of Work   <br>  T-shirts Music CDs <br> Relative <br> Cost   <br> United <br> States 20 10 <br> $2: 1$   <br> Mexico 5 1 |  |  |  |

KENTSTATE Exchange Rate Basics

## The Process



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## The price of a t-shirt

- With International Trade
- The price of a Music CD, in terms of a T-shirt, the terms of trade, must be the same in both countries.
- The price must be between 2 and 5 t-shirts; just what depends on supply and demand
- We will assume (so that we can get on with this example) that the actual price is 3:1.

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The Market for CD's


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The Mexican Market for CD's


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The US Market for T-shirts


## Equilibrium



## Equilibrium (Cont)

Imports $S_{T-\text { shirts }}^{U S} p_{T-\text { shirts }}+$ Imports $_{\text {Tequila }}^{U S} p_{\text {Tequila }}=$ Imports CDs $_{\text {Mexico }} p_{\text {CDs }}+$ Imports $_{\text {BigMacs }}^{\text {Mexico }} p_{\text {BigMacs }}$ |  |  | $D\left(\frac{1}{p_{T S}}\right)$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 100200 | $1000^{1200}$ |  |  |  |  |

## Other Countries, Other Goods



## Equilibrium (Cont)



## Demand and Supply



Mexican Demand for


US Demand for T-shirt Imports CD Imports

## Demand and Supply

We will assume (so that we can get on with this example) that the actual price is $3: 1$

$$
3 p_{T S}=p_{C D}
$$

Mexican Demand for
US Demand for T-shirt Imports

## Determining Exchange Rates

- Domestic monetary policies in the US mean that CDs cost $\$ 15$ each. (T-shirts = \$5)
- Domestic monetary policy in Mexico means that T-shirts cost 50 Pesos. (CDs = 150P)

$$
3 p_{T S}=p_{C D}
$$

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## The Process

## Comparative

 Advantage \& Supply and Demand set relative prices of goods| The Process |  |  |
| :---: | :---: | :---: |
| Comparative Advantage \& Supply and Demand set relative prices of goods | Domestic Prices are set via the Quantity Theory | The Combination Sets Exchange Rates |
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## Determining Exchange Rates

- Domestic monetary policies in the US mean that CDs cost $\$ 15$ each. (T-shirts = \$5)
- Domestic monetary policy in Mexico means that T-shirts cost 50 Pesos. (CDs = 150P)
\$1=10 Pesos

$$
3 p_{T S}=p_{C D}
$$

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## The Process



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## Four Scenarios

- Floating Exchange Rates
- Exchange rates are determined by supply and demand


## Four Scenarios

- Floating Exchange Rates
- Fixed Exchange Rates
- Currency Boards
- A form of fixed exchange rates



## Four Scenarios

- Floating Exchange Rates
- Fixed Exchange Rates
- The government manages the exchange rate

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## Four Scenarios

- Floating Exchange Rates
- Fixed Exchange Rates
- Currency Boards
- Monetary Unions
- Several nations, one currency

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