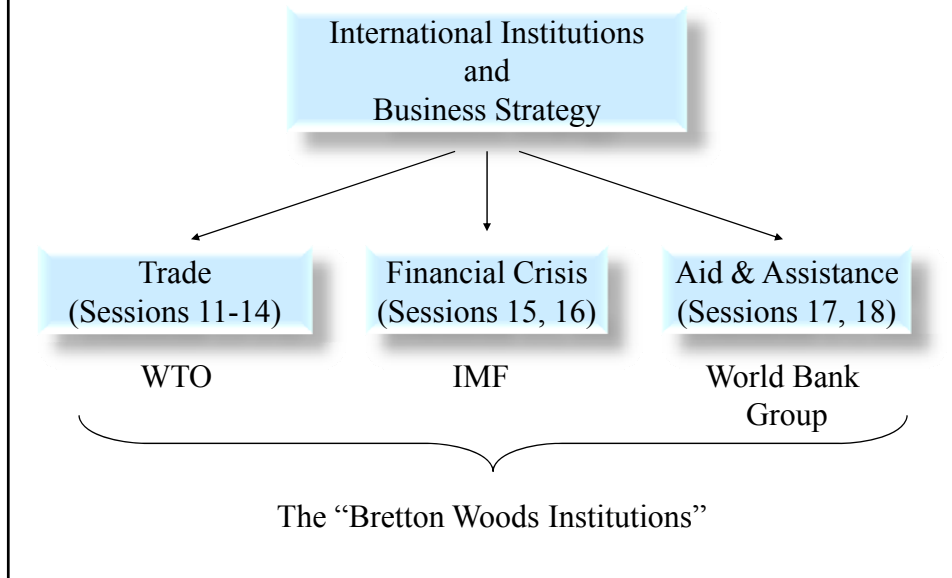


Part II (Sessions 11 – 18)



International Trade and the Non-Market Perspective

- Why Trade is Good
- Common Misconceptions About Trade
- Real Reasons Trade might be Bad
- National Trade Strategies
- Introduction to Firm Strategy

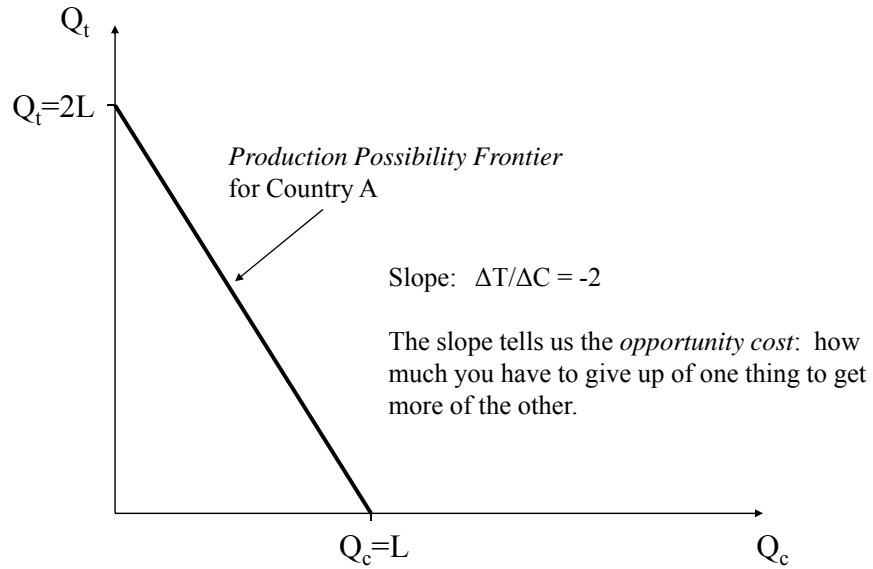
International Trade and the Non-Market Perspective

- Why Trade is Good
 - The Production Possibility Frontier
 - Prices and Wages
 - The Gains from Trade
 - Empirical Evidence

A Simple Production Model

- Imagine a world with two goods:
 - Textiles (T)
 - Computers (C)
- Labor is the only input in production
- Country A has a total labor supply of L and can produce textiles and/or computers with the following technologies:
 - $Q_t = 2L_t$
 - $Q_c = L_c$
- Moving one unit of labor from computers to textile production means 1 less computer and 2 more units of textiles

The Production Possibility Frontier



Prices and Wages

- Competitive firms earn zero profits
- Computer firms:

$$\text{Profit}_c = P_c * Q_c - w * L_c = 0$$

revenue

cost

- Recall $Q_c = L_c$ in Country A

$$\Rightarrow w = P_c$$

- The wage equals the price of computers in Country A

Prices and Wages

- Similarly for textile firms:

$$\text{Profit}_t = P_t * Q_t - w * L_t = 0$$

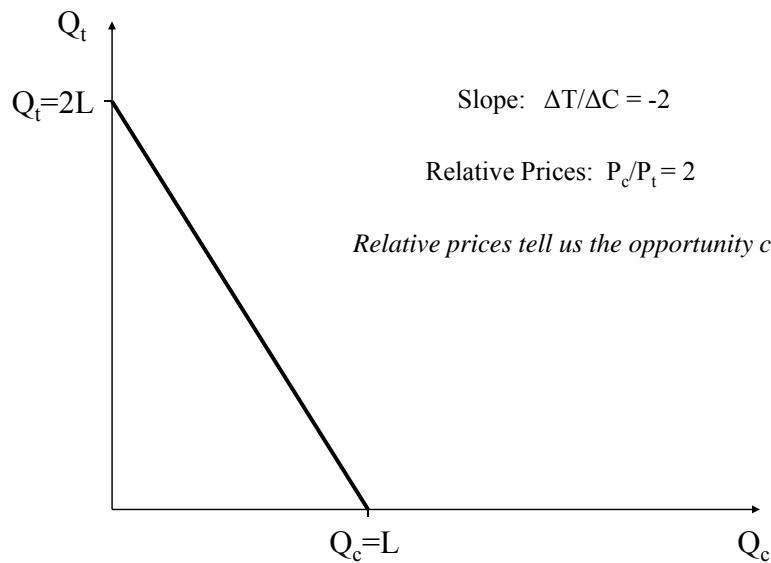
- Recall $Q_t = 2L_t$ in Country A

$$\Rightarrow w = 2P_t$$

- The wage is twice the price of textiles in Country A
- If workers can move freely between textile and computer production, then wage in both sectors will be equal, so

$$w = 2P_t \quad \& \quad w = P_c \quad \Rightarrow \quad P_c/P_t = 2$$

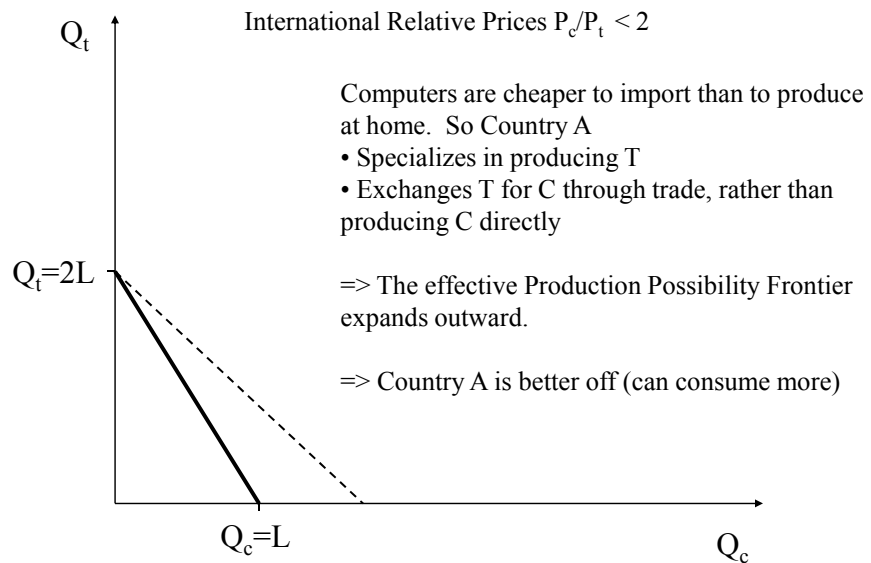
The Production Possibility Frontier



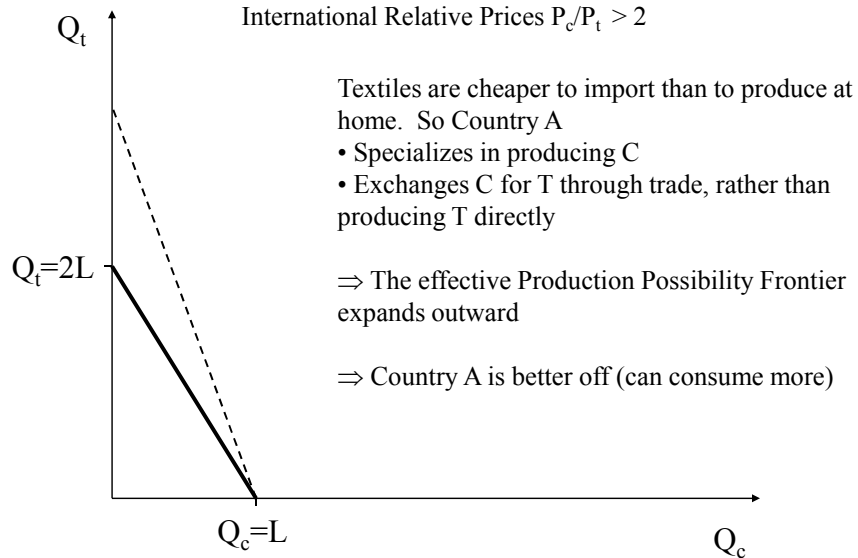
The Gains from Trade

- If Country A does *not* trade
 - Consumption is limited by domestic production
 - By reallocating its labor supply, it can produce more or less textiles (in exchange for computers) to find its most preferred mix
 - The cost of this reallocation (the opportunity cost) is simply the relative prices of production domestically
- But if Country A *does* trade....

Example #1: The Gains from Trade



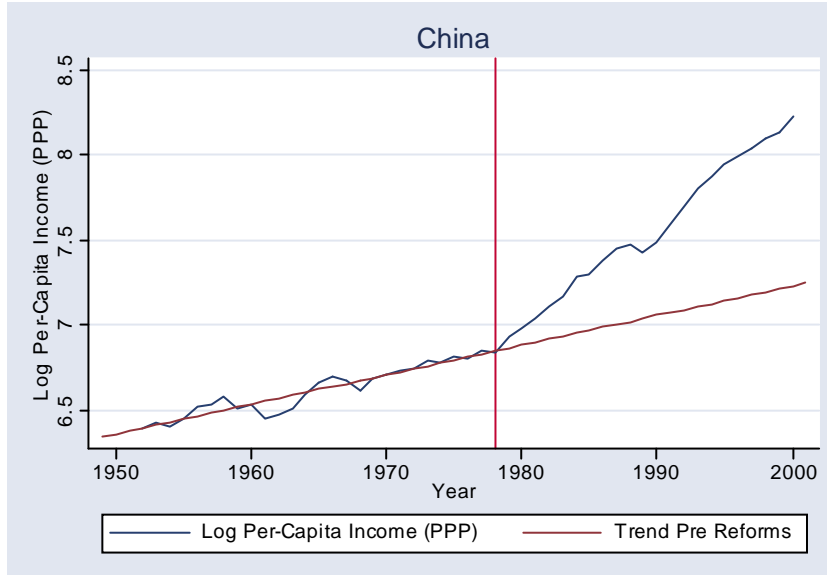
Example #2: The Gains from Trade



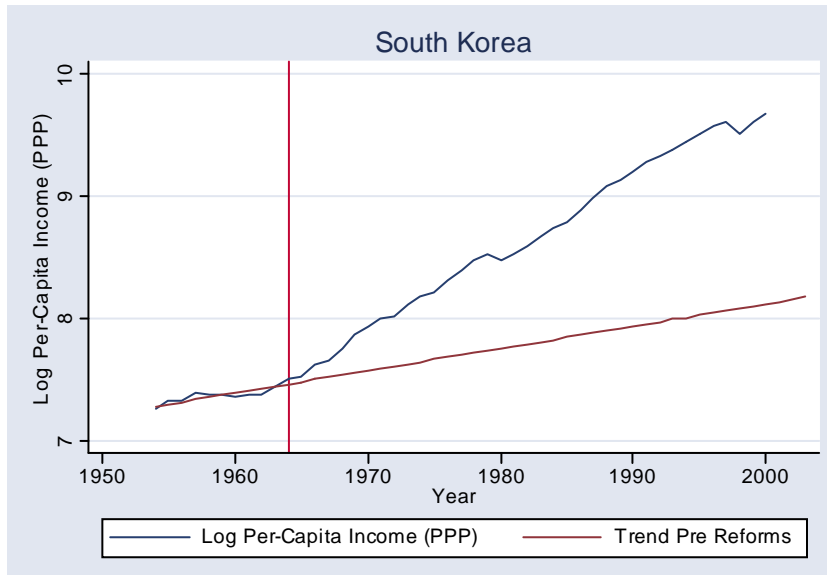
The Gains from Trade

- Whatever the prices on the world market, a country's consumption possibilities expand through trade
- Think of trade as a *substitute for having to produce it yourself*
 - By trading for some goods, you allow yourself to specialize in the things you are relatively good at producing
- That's all there is to it!
- What is the evidence?

Evidence: Do Open Countries Grow Faster?



Evidence: Do Open Countries Grow Faster?



Evidence: Do Open Countries Grow Faster?

- Frankel & Romer (1999) “Does Trade Cause Growth?”
 - Increased openness to trade associated with higher incomeDefine X = share of GDP that is traded
Define Y = per-capita income

1% ↑ in X associated with 1-2% ↑ in Y

- Jones and Olken (2008) “The Anatomy of Start-Stop Growth”
 - Examine largest growth accelerations since WWII
 - Find that trade shares ↑ by 25% on average
 - This is huge (e.g. US trade share is currently 30%)
- But establishing causation convincingly is hard...

International Trade and the Non-Market Perspective

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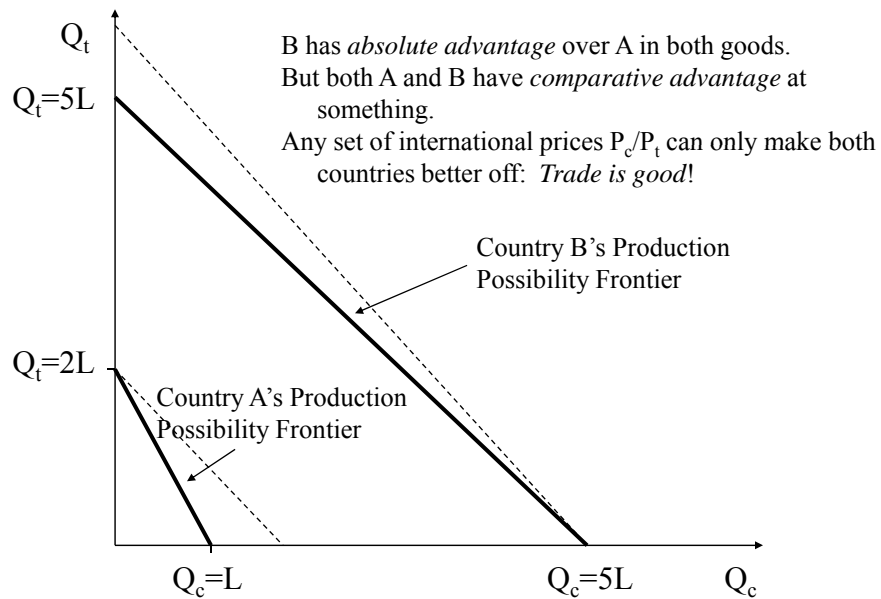
International Trade and the Non-Market Perspective

- Common Misconceptions About Trade
 - Comparative advantage vs. Absolute advantage
 - Three fallacies

Comparative Advantage vs. Absolute Advantage

- You specialize in what you are relatively good at producing. What does it mean to be relatively good at something?
 - *Absolute advantage*: you are better at producing X than someone else is at producing X
 - *Comparative advantage*: your opportunity cost of producing X (rather than Y) is lower than others' opportunity cost of producing X (rather than Y)
- The pattern of trade is driven by *comparative advantage*

Comparative Advantage vs. Absolute Advantage



Absolute Advantage: Common Fallacies

- “Trade is bad for poor countries, because firms in poor countries can’t successfully compete with firms in rich countries.”
- “Trade is bad for rich countries, because workers in rich countries can’t possibly compete with low-wage workers in poor countries.”
- “Trade is bad for poor countries because it exploits the workforce, paying lower wages than are paid in rich countries.”

International Trade and the Non-Market Perspective

- Why Trade is Good
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International Trade and the Non-Market Perspective

- Real Reasons Trade might be Bad
 - Winners and losers *within* a country
 - Good and bad industries for growth

Domestic Winners and Losers



Domestic Winners and Losers

- Basic model assumed labor moves freely between sectors
 - Reality: Short-term dislocations
 - Change in trading patterns => Some people lose jobs
- General issue: *Specific Factors*
Some inputs to production can't be easily reassigned
 - e.g. 60-year-old steel workers
 - e.g. a textile factory
 - e.g. farmland
- Bottom Line:
 - Net gain to society
 - But costly to some

Good and Bad Industries for Growth



Good and Bad Industries for Growth

- Learning-by-Doing
 - Some industries may provide better growth opportunities
 - Countries which specialize in “simple” industries, may never be able to improve their productivity much
- Examples
 - Farming vs. Computer manufacturing
 - Mining vs. Pharmaceuticals
- Countries that start out with a comparative advantage in farming, mining, etc, may be trapped in these industries forever
- Evidence?

International Trade and the Non-Market Perspective

- Why Trade is Good
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- Real Reasons Trade might be Bad
- **National Trade Strategies**
- Introduction to Firm Strategy

International Trade and the Non-Market Perspective

- National Trade Strategies
 - Protectionism I: Limit Pain in Transition
 - Protectionism II: Encourage Good Industries for Growth

Protectionism I: Limit Pain for Those Who Lose

- Usual protectionist responses
 - Tariffs, quotas, subsidies
 - Subtler forms (e.g. product regulation, rules of origin)
- Alternative response #1: Compensation
 - Free trade leads to a net gain for a country as a whole
 - Should be able to *compensate vested interests* and still have everyone be better off
 - But redistribution tricky in practice
- Alternative response #2: Deeper institutional change
 - *Reduce influence of local vested interests* over trade policy
 - Within US: Fast Track Authority
 - Worldwide: World Trade Organization (WTO)

Protectionism II: Encourage Good Industries for Growth

- | | | |
|----------------------------------|---|---|
| Hold
Foreign
Firms
Out | { | “Import Substitution Industrialization” (ISI) <ul style="list-style-type: none">• <u>Idea</u>: Potential comparative advantage in an industry, but difficult for “infant industry” to compete internationally• <u>Policy</u>: Protect infant industries until they “grow up” |
| Invite
Foreign
Firms
In | { | Technology policy and FDI <ul style="list-style-type: none">• <u>Idea</u>: High-tech investment from abroad may create local spillovers for domestic workers and firms• <u>Policy</u>: (1) Subsidize multinational entry (e.g. tax breaks); (2) Forced JVs |

International Trade and the Non-Market Perspective

- Why Trade is Good
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- **Introduction to Firm Strategy**

International Trade and the Non-Market Perspective

- Introduction to Firm Strategy
 - Tariff Jumping
 - Politics “Jumping”
 - Changing the Rules

Tariff Jumping

- Purpose: Avoid paying high tariffs today
- Strategy #1: Location of production
 - Want to sell your product in local market
 - If tariff on finished goods, import parts and assemble locally
 - Tradeoff: lower tariffs vs. natural comparative advantage
 - e.g. Hewlett-Packard in India
- Strategy #2: Transshipment
 - Tariffs in Country B target goods from Country A
 - Bring goods from Country A (production) to Country B (market) through Country C
 - Tradeoff: possibly lower tariffs vs. increased transportation costs and/or increased production/repackaging costs

Political Strategy: “Politics Jumping”

- Purpose: Avoid paying high tariffs in the future (i.e. prevent having tariffs imposed)
- Will country begin to perceive certain imports as a threat?
- Strategy: Relocate production to local economy
 - Employ local workers
 - Produce income for local government
 - Tradeoff: lower tariff risk vs. natural comparative advantage
 - e.g. Toyota in U.S.
- Strategic principle: Realign incentives of politicians

Political Strategy: Changing the Rules

- Trade restrictions are “rule of the game”
 - Much strategy is optimization, given rules that exist
 - Other strategy is about changing the rules themselves
- Firms, often in coalitions, have much influence over how governments negotiate trade policies
- Examples
 - Local: Protections for domestic companies
 - e.g. “Anti-dumping” rules (next week)
 - Foreign: Opening foreign markets for investment
 - e.g. Conditionality of WTO membership (next week)
 - World: Changing IP law globally
 - e.g. Cipla case (next week)

END