Product Differentiation

Price Wars Recap

- We saw in the Shrimp game how rough rivalry can be
- First way out: Cooperation
 - But this is very difficult to maintain!
 - ... and it's illegal to be too cooperative (i.e. collusive)
- Second way out: Differentiation
 - (Not possible in the Shrimp game)
 - Avoid this kind of competition altogether

Differentiation Principles

- Hotelling: In a frictionless world, maybe you wouldn't want to differentiation
 - Minimal Differentiation Principle
- Salop: ... but this result is bunk in practice!
 - It's only true when there's only one force (being near customers)
 - Once you introduce almost any other force, you get...
 - Maximal Differentiation Principle

Strong and Weak Forces

- For example, suppose you choose location, then compete on price
 - Strong incentives to avoid colocating near rivals
 - 'Location' isn't (necessarily) physical/geographic
- In practice, look for the forces that matter the most quantitatively
 - Price war is usually a strong force, want to avoid!!

- Geographic differentiation is usually a weak force since it's offset by agglomeration effects
 - Consumers want to go where the shops are
 - e.g. Fulton Fish Market, soda vending machines, airport car rentals, etc
 - Fashion Districts!

Fish and Fashion





Thinking Outside the Box

Sometimes it just takes a bit of creativity to figure out how to differentiate yourself: https://www.tiktok.com/@planetmoney/video/6890184198590663941

- These ideas are very general. Some examples we saw
 - Casinos and brewers offering very different products to same customers
 - So it even applies to differentiating one of your products from another!
 - Political platform polarization principles
 - When turnout is a strong force
 - Fun question to look into: Does lower turnout cause higher polarization?



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 - Within narrowly-defined markets!
- Ritz-Carlton competes with other luxury hotels
 - But highly differentiated!
 - And an entire operations strategy to fit this

Ladies and Gentlemen serving Ladies and Gentlemen

Strategic Takeaways

- Differentiation is relative, so it's intrinsically dependent on what your competitors are doing
- How much should Ritz-Carlton care about process failures?
 - How much do they happen elsewhere?

- What is the customer expecting?
- How valuable would it be to correct these problems?

Next Week: Reasoning Through What They Will Do

Deterrence is the art of producing in the mind of the enemy the fear to attack