

Tying

* Tying is when the seller *requires* the customer to purchase one good in order to purchase another

- ◆ IBM mainframe and computer cards
- ◆ PlayStation and game discs
- ★ Allows firm to *measure/estimate* demand and practice price discrimination more effectively
- ★ Goal is to extract more surplus from enthusiasts while not discouraging the usual consumers
- * It is profit maximizing because heavy users have more inelastic demand.

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Case study

- ★ We will now examine the famous case of tying, that Polaroid applied in 1971
- From the 60's to date the industry of photography has changed dramatically

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WENT TO THE MOON

TOOKS PRIOTOS

Second-degree PD

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Second-degree PD Tying

The amazing instant photography

★ In 1971, Polaroid *introduced* the SX-70 camera

- ★ Of course, Polaroid had filed for a patent for the camera thus, Polaroid had a monopoly in instant cameras
- ★ Polaroid *did not intend* to make profit from the camera!
- * The plan was that
 - ♦ the <u>camera</u> would be used as the **entry fee**, A
 - ◆ and film roll would be used as per unit price, p
- ★ So, profit would come from the film sales!
- ★ The only problem was that Polaroid did not have a monopoly in film roll.

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Polaroid special film

ond-degree PD Tyi

- ★ Monopoly in film was the most essential for Polaroid if <u>ordinary film</u> could be used, its price would be close to MC
- ★ Polaroid *solved* this problem
- by making the camera work only with Polaroid special film

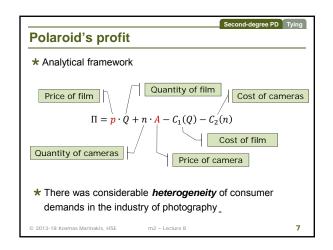
 Polaroid developed a monopoly in both counterparts and
- used *tying* as a *two-part tariff*
- buying the *camera* was like an *entry fee*, then the real money were made from film sales!
- ★ Of course, producing a camera is not free of cost to the producer

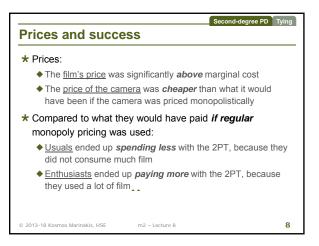
as is the entrance in a **bowling alley**, for instance

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Bundling

- ★ Bundling is packaging two or more different products together to gain a pricing advantage
- ★ Bundling might be a profit maximizing method of pricing, when simple PD is not possible
- ★ Bundling *requires* two things to work:
 - 1. Heterogeneous customers
 - 2. Demands must be negatively correlated.

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Case study

- **★** In 2004, Universal[™] was the *distributor* of two great motion pictures:
 - ◆ Crash
 - ◆ The Notebook
- ★ Universal decided to bundle the two films, so that no movie theater could lease one without the other
- * Why would a company do this?

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Without bundling

* Willingness to pay by theater

	The Notebook	Crash
NY Theater	\$50,000	\$25,000
GA Theater	\$30,000	\$40.000

- ★ Renting the movies separately would result each theater paying the lowest reservation price per movie:
 - ♦ If we charge 50K for *The Notebook*, revenue is 50K If we charge 30K, revenue will be 2 × 30K = 60K
 - ♦ If we charge 40K for <u>Crash</u> revenue is 40K If we charge 25K, revenue is 2 × 25K = 50K
 - ◆ Total revenue is 60K + 50K = 110K

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With bundling

* Willingness to pay by theater

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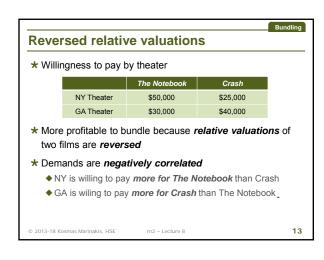
- * Now assume that movies are bundled
 - ♦ NY is willing to pay 75K for the bundle
 - ◆ GA is willing to pay 70K for the bundle
- ★ If we charge 70K for the bundle, both theaters will buy total revenue will be 140K
- ★ That is, 30K more, just because of bundling!

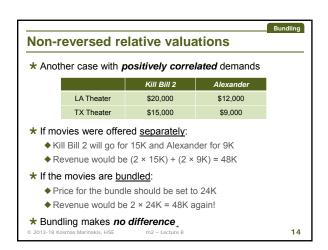
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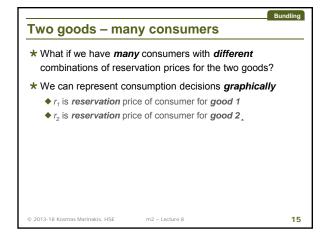
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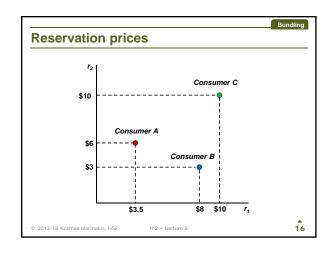
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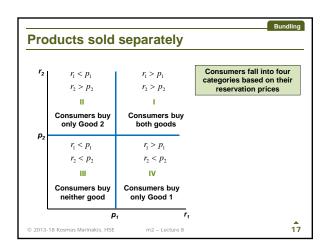
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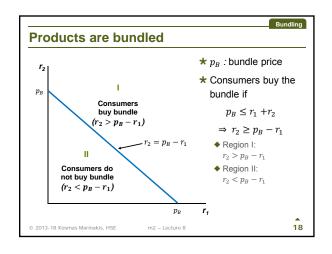


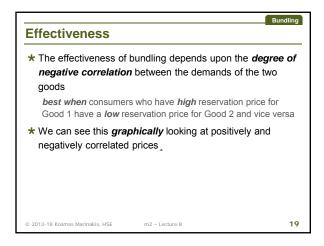


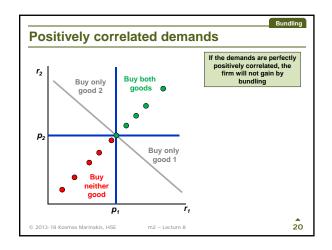


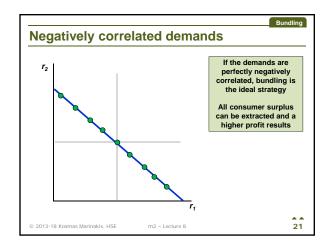


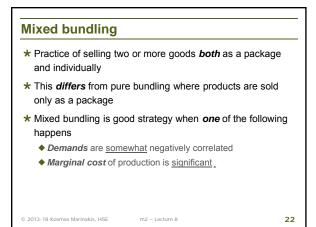


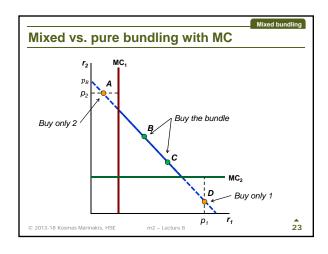


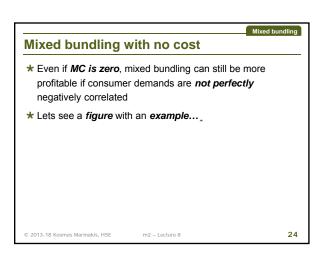


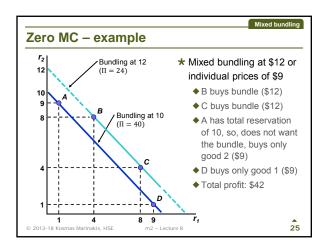


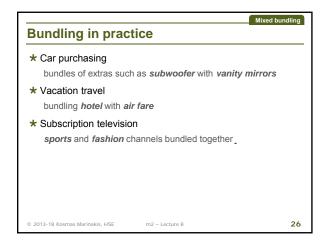


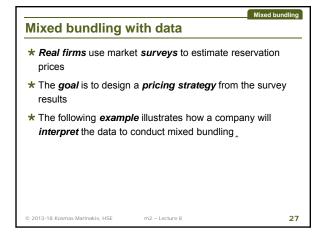


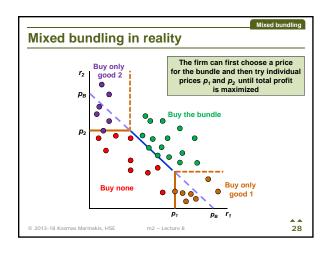












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