The Market for Lemons

(Aker lof,)

```
Setup:
- tach seller has either a good car or a bod car (+ knows which)
- Sal car value = 4 to sellers, 6 to buyers; good car = 10 to sellers, buyers
- assume # buyers > # sellers (for simplicity)

Assume; all cars look identical to buyers. ("roughly the same price)
 Suppose: 9 traction of all cors good; In Fraction of cars on market are good
Question: What is value of h "at equilibrium"? (no one wants to given ) Case 1: h=0 => buyers pay 6, good sellers stay out the going prices)
Case 1: h=0. => buyers pay 6, good sellers stay out
Case 2: h=g. => buyers willing to pay 12g+6(1-g)=6+6g
    => Self-reinforcing if and only if 37 (if not, h=0 to any equilibrium)
Incentives in Computer Science: Asymmetric Information
```

Adverse Selection

Adverse selection: asymmetric into so con't determine quality => only low-quality participants

More examples

- market for health in surance (only least healthy people)
- @ labor market (only least productive workers remain in the market)
- (3) market for online advertising (only lovest-quality ada remain in the market)

Mitigating Adverse Selection

Idea: reduce internation asymmetry by exposing more into about the value/quality of goods.

Examples:

- market for lemons (e.g., certified by mechanic, offer warranty to signal a good car)
- labor market (eg., education as a signal for higher productivity)
- market for online advertising (e.g., debruhe the highest-quality ads
 thisphay them the most prominently)

Reputation system: mitigates advorce selection.

Moral Hazard

Moral hazard: when the cost of an action not fully borne by the decision-maker.

Examples:

- Thealth insurance market (butter hourance => weaker incentives to stay healthy)
- (2) labor market (effort-independent wages =>)
 weaker incomives to be productive => cost borne by firm)
- (5) onlike market place (if no reportation system =) less threather for sellers to not rip off buyers)

Solvien: expose more information about likely action (egivie a system).

Case Study: eBay's Reputation System

- buyers, sellers rate each other
- feedback skews positive
- issue: sequential us. simultaneous feedback
- questioni how to summarise all post actions of e.g. a seller?

 Rescent lective (PP) := # of transactions with positive feedback

 (EPP) # of transactions with any feedback