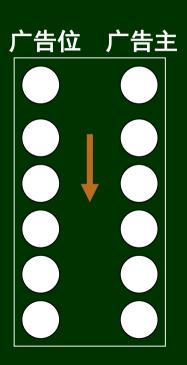
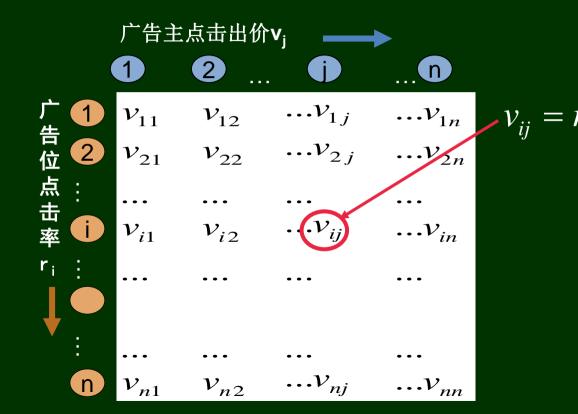
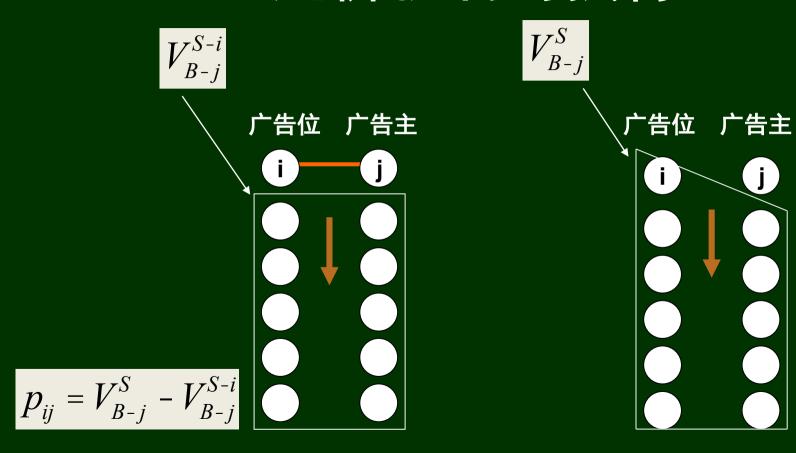
为什么VCG是优化的?

最高估值总和 $V_B^S = \sum v_{ij}$



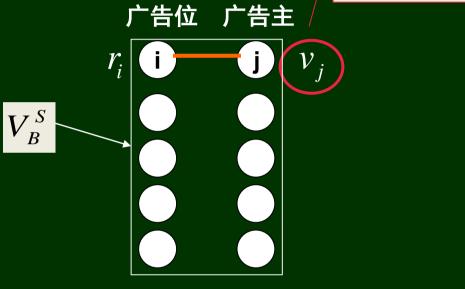


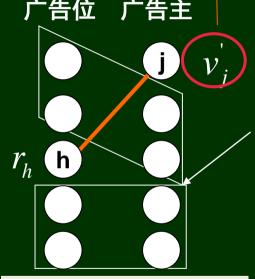
VCG定价机制的执行



真实估价

虚假报价





回报:

 $|r_i v_j - p_{ij}| = r_i v_j - (v_{B-j} - v_{B-j})$

 $r_h v_j - p_{hj} = r_h v_j - (v_{B-j})^S$

小 结

- VCG是理论上最漂亮的广告位定价机制
 - 社会最优
 - -鼓励真实报价(占优策略,均衡)
- VCG占优策略前提:
 - 广告主之间没有合谋、作弊等行为
 - 广告位价格只与点击率有关