

In association with:



Equilibrium models



What is an equilibrium?

A 'stable' state, nobody wants to deviate

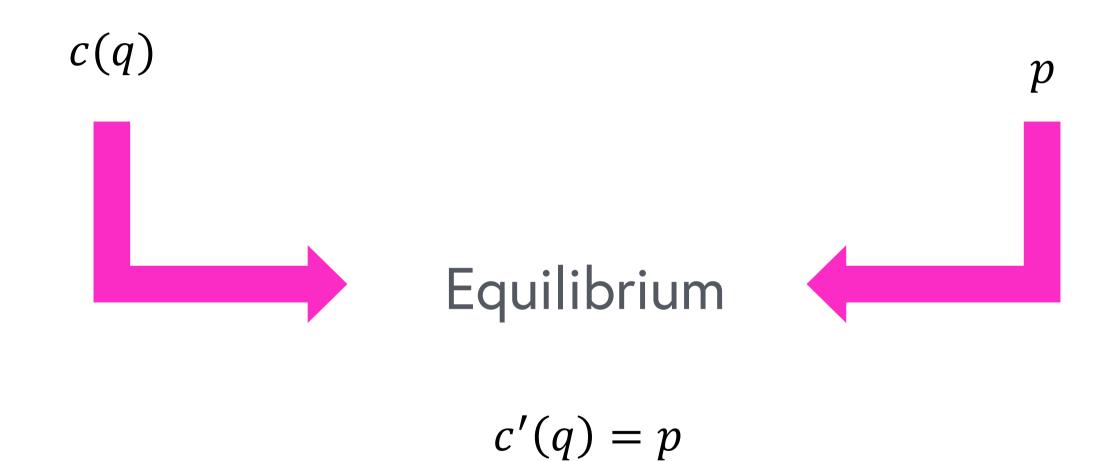
- Demand and supply are in balance (i.e. market equilibrium)
- Input and output are in balance (i.e. conservation constraints)
- Nash equilibria
- The resulting optimum of a min/maximization



Example

Cost function:

Market Price:





2 types of equations

Zero-profit conditions

Output costs ≥ revenue and activity variables
Output ≥ 0

Costs ≥ demand benefit and activity variables

Demand ≥ 0

Market clearing $Supply \ge demand$ and price variables Price > 0