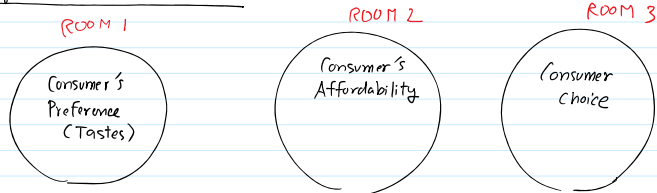


Theory of consumer choice



- 3 questions
- ① What a consumer wants? → Preferences
 - ② What baskets of goods a consumer can afford? → Budget Constraint
 - ③ Given Preferences (1) and Budget constraint (2), which basket maximize consumer's utility (or satisfaction)?

Main concern

Suppose we have 2 goods: X & Y
(meals) (movies)
 P_x, P_y, M

To maximize his utility, How many units of x and y he should choose optimally.

Mathematically,

Maximize $U(x, y)$ → objective function

subject to budget constraint: $P_x \cdot X + P_y \cdot Y \leq M$ → money income

expenditure spent on good x expenditure spent on good y
total expenditure

$(x^* = ?, y^* = ?) \rightarrow \max U$

↓
consumer's utility maximization problem

Actually, we have 2 approaches to answer the question above:

① via Cardinal approach (OLD APPROACH)
measurable
 Pioneered by Jeremy Bentham (Father of Utilitarianism) (school of "Utility is measurable" thought) (assumed)

② via Ordinal approach (NEW APPROACH) OR MODERN ECONOMIC THEORY
ordering
 ⇒ It is enough to study consumer's behavior if he/she can "rank" his/her preferences

Let's start w/ ORDINAL APPROACH:

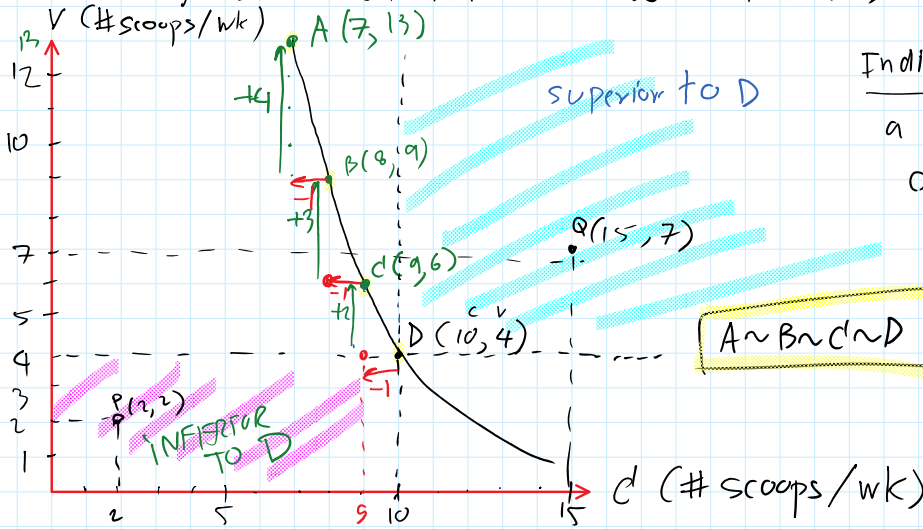
- To study "Preferences", tool is "INDIFFERENCE CURVES"
- To study "Affordability", tool is "BUDGET LINES"
- To study "Choice", tool is "CONSTRAINT"

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Indifference Curves

Consider 2 goods: chocolate (C) & Vanilla (V)



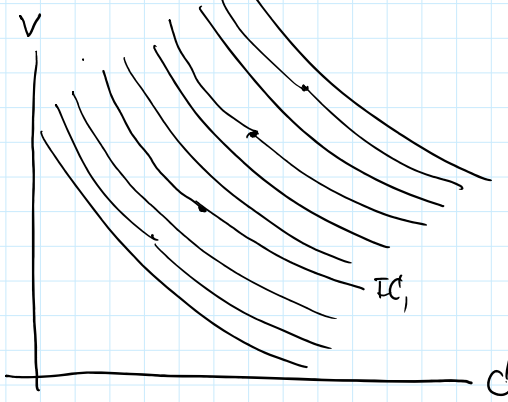
Indifference curve:

a curve contains all baskets of the two goods that provide the same satisfaction level to the consumer.

- $D \succ P$
- $Q \succ D$

Properties of IC's

- ① IC's are downward sloping.
- ② There are millions of IC's on the given space:



- ③ The higher the IC's towards NE direction, the higher satisfaction level.

