Independence	a Irrelevant	Alterative : 11A	(Luce, 1959)
	0	0	

11A is the most important limitation of the standard logit model. It simply states that the nation of probabilities of selecting two goods is independent of the attributes of the other alternative in Attribute a concequence of the large tractibility of the model

The Odd Ratio: Pij/Pis, the ratio of probabilities

 $P_{ij} = \frac{e^{Vij}}{\sum e^{Vij}} = \frac{e^{Vij}}{e^{Vij}} = \frac{e^{Vij}}{e^{Vij}} = \frac{e^{Vij}}{e^{Vij}}$ 

The odd ratio is independent of the number and characterities of other alternatives (attributes not characteristics) -> characteristics -> charact

This is highly restrictive. If there is a charge we get Proportional Substitution

Tractability of Logit

MA

Proportional Substitution
ie-Contact Elasticaties

Relevant when the charactest changes or the attribute of the irrelevant good change (P changes)

Two buses is a classic example of why IIA is austral. This shows why varilla logist is a bit shirter. Some question if it even represent any behavious

Condetional Logiti (41) stool the attraction

trouport. They have an equal probability of being chosen sit.

The odd ratio = 1. A red by now is added to the desire

set sit. the two buses are peyed substitutes

expectation: The probability of the constant the same and the probability of each but full to 1/4

Logit: The add ratio between the blue bus and as must stay 1, theregove the probability by all fall to 1/3. Weird consume behaviour

Solution To IIA: More complex model pomitting plexible preference

- · Mixed Logit (Raudom Coefficient Modely)
- Model that allow for correlation amongst the error terms, sach
  - · Nested Logit (allowing for comelation between choice)
  - All of there extension are from McFaddan