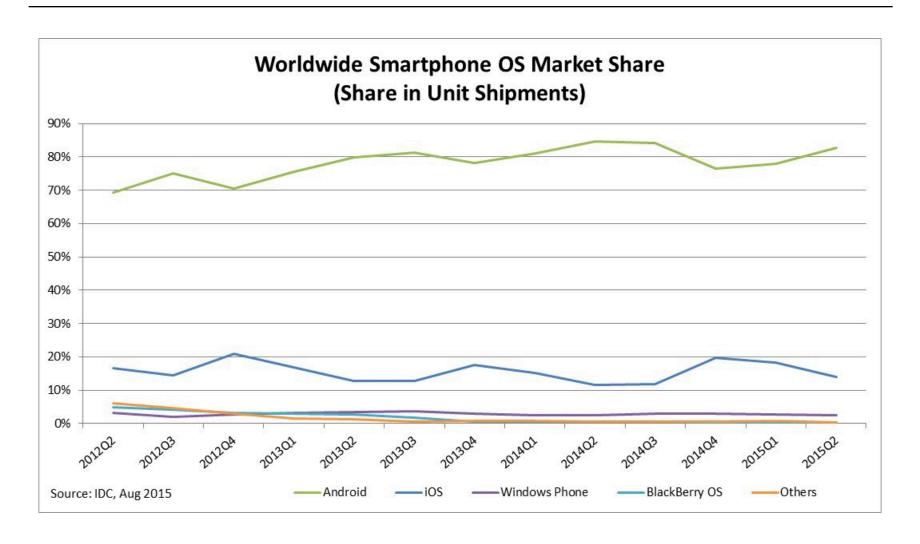
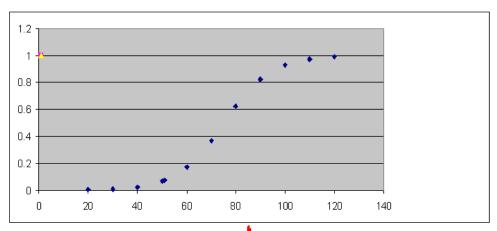
Market Share Predictions

What If One Has Only Share Data?



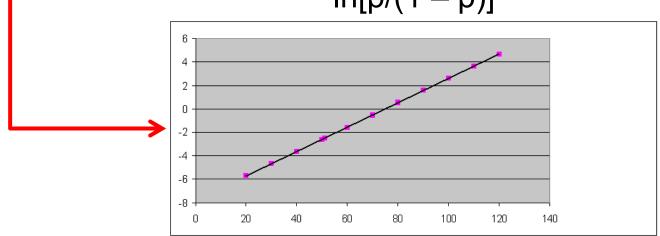
Logistic Regression

Logistic Distribution P(Y = 1)



Transformed, however, the "log odds" are linear.

$$ln[p/(1 - p)]$$



Super Bowl 2016 Odds

Team	Odds Against
Green Bay Packers	6-1
Seattle Seahawks	13-2
Indianapolis Colts	8-1
New England Patriots	9-1
Dallas Cowboys	10-1
Denver Broncos	12-1







Source: Bovado (July 2015)

Logistic Regression

What if one does not have individual choice data but share data?

Prob(Choosing Android) =
$$\frac{e^{(a+b_1X)}}{1+e^{(a+b_1X)}}$$

Predictions are bound between [0,1]

$$\frac{P}{1-P} = e^{a+b_1X}$$
 Chance of choosing to chance of not choosing

where, P = Share of Android OS

This is called
$$\rightarrow$$
 In [p/(1 - p)] = a + b₁Price + b₂ # Vendors the "log odds"