PSC 400
SYRACUSE UNIVERSITY

DATA ANALYTICS FOR POLITICAL SCIENCE

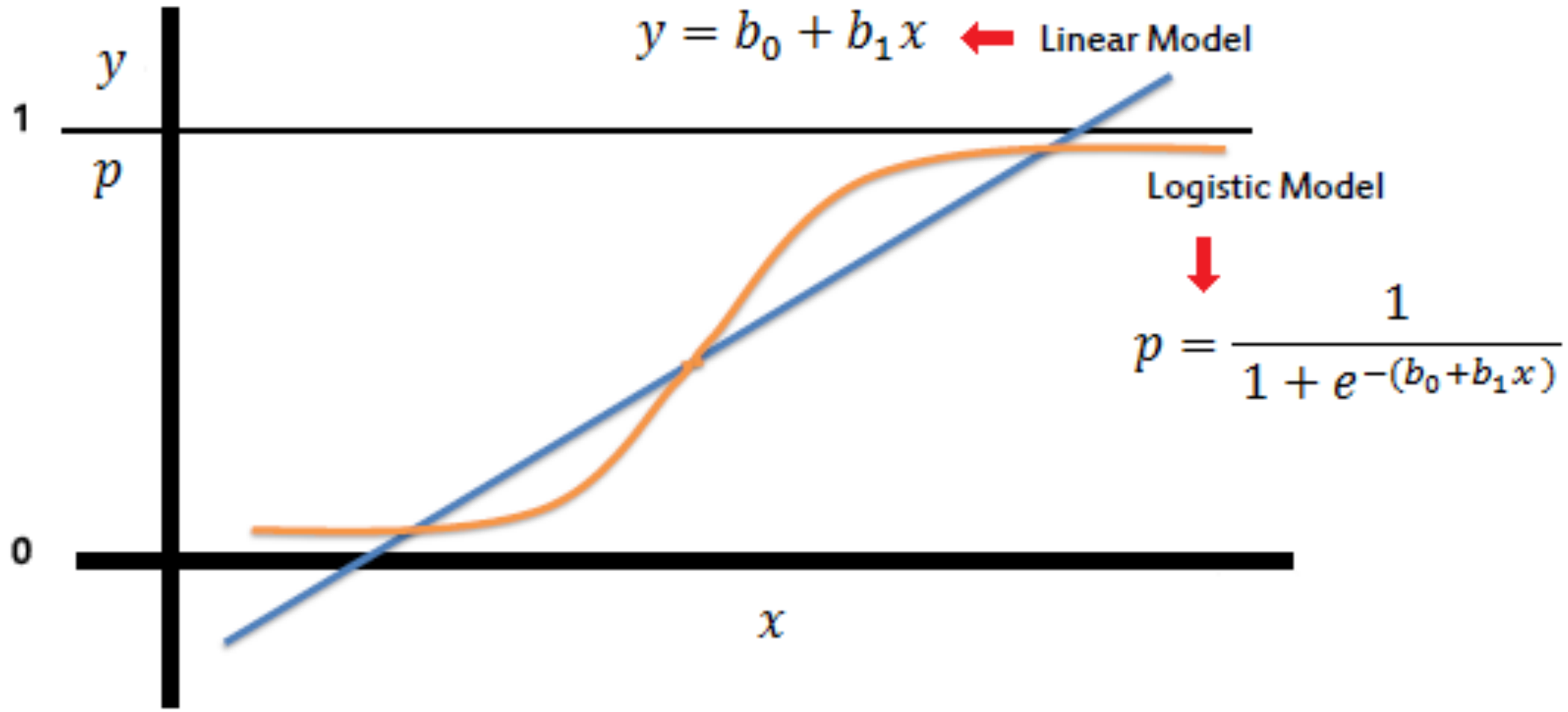
EXTENSIONS TO REGRESSION

EXPLORATION SURVEY

EXERCISE

- cces19.csv
- What is the effect of age on whether respondents are registered to vote or not?
- Control for: female, partisanship, nohighschool, collegeorhigher, nonwhite, married, employed
- Plot predicted probability of being registered depending on age

LINEAR VS. LOGIT



RECAP

- You can now run regressions
  - With binary or continuous dependent variables
  - With binary, categorical, or continuous independent variables
  - Estimating separate effects depending on values of another variable (interaction effects)
  - Estimating non-linear effects

RECAP

- You can display results of regressions
- Predicted values of dependent variable (graphs, numbers)
- Including confidence intervals

PREDICTION

- How good are polls at predicting election outcomes?
- How well do state-level polls from shortly before the election predict who will win each state?

PREDICTION

Table 4.1. 2008 US Presidential Election Data.

Variable	*Description*
`state`	abbreviated name of the state
`state.name`	unabbreviated name of the state
`Obama`	Obama's vote share (percentage)
`McCain`	McCain's vote share (percentage)
`EV`	number of Electoral College votes for the state

Table 4.2. 2008 US Presidential Election Polling Data.

Variable	*Description*
`state`	abbreviated name of the state in which the poll was conducted
`Obama`	predicted support for Obama (percentage)
`McCain`	predicted support for McCain (percentage)
`Pollster`	name of the organization conducting the poll
`middate`	middate of the period when the poll was conducted

- polls08.csv and pres08.csv