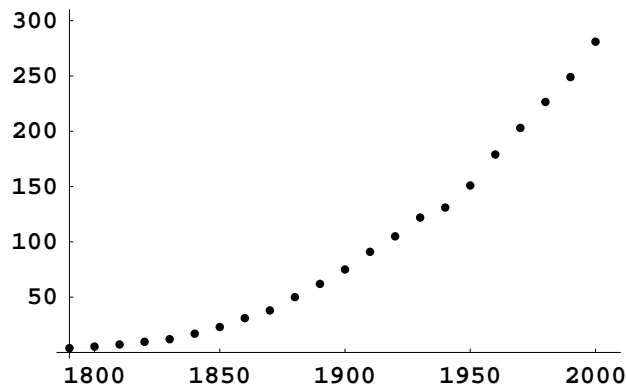


Modeling the US Population:

The data graphed as a function of time



Steps in Model Building

1. State underlying assumptions.
2. Identify the relevant variables and parameters.
3. Use the assumptions in Step #1 to formulate equations relating the variables in Step #2.

First Model: Malthusian Model

Assumption: Growth rate of the population is proportional to the population.

Variables:

Malthusian model is