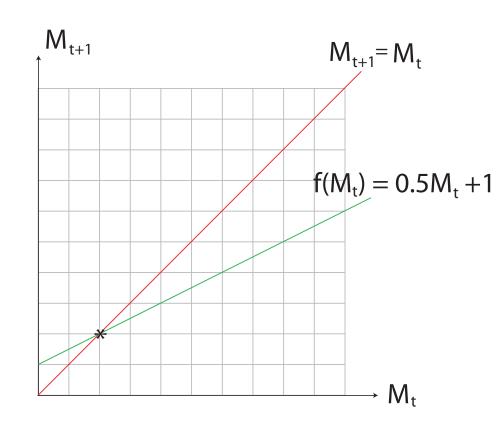
Graphical Criterion for Stability of Equilibria for a DTDS with an Increasing Updating Function

An equilibrium is stable
if the graph of the
(increasing) updating
function crosses the
diagonal from above to
below.



Example:

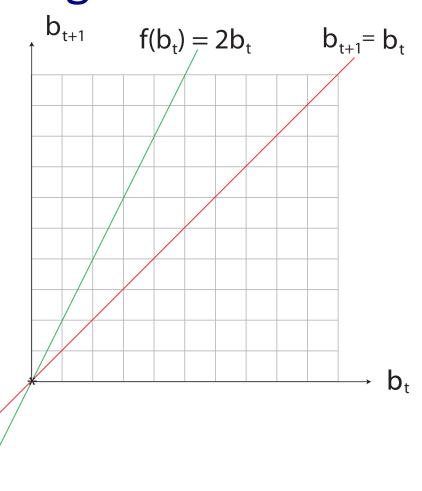
$$M_{t+1} = \frac{1}{2}M_t + 1$$

Graphical Criterion for Stability of Equilibria for a DTDS with an Increasing Updating Function

An equilibrium is
 unstable if the graph of
 the (increasing)
 updating function
 crosses the diagonal
 from below to above.



$$b_{t+1} = 2b_t$$



Graphical Criterion for Stability of Equilibria for a DTDS with an Increasing Updating Function

Example:

DTDS for a limited population

