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# Chaos And Time Series Analysis

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Dynamical systems ... We lose 1 bit of precision with each time step;  $A > 4$

Case: Transient chaos for  $A$  slightly above 4 for most  $X_0$ ; Orbit eventually escapes to infinity for most  $X_0$ ; Other

Properties of the Logistic Map ( $A = 4$ )  
 Eventually fixed points;  $X_0 = 0$  and  $X_0 = 1 - 1/A = 0.75$  are (unstable) fixed points;  $X_0 \dots$

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