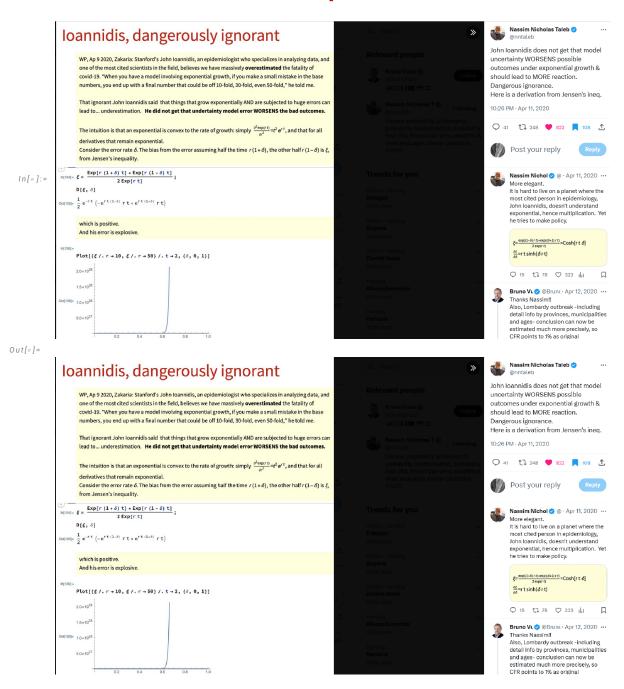
Model Error for Exponential



Bias from assumption is given as ξ .

$$ln[*]:= \xi = \frac{Exp[r(1+\delta)t] + Exp[r(1-\delta)t]}{2 Exp[rt]} // FullSimplify$$

Out[@]=

 $\mathsf{Cosh}[\mathsf{rt}\,\delta]$

Take rate of change of this.

$$In[\bullet]:=$$
 D[ξ , δ] // FullSimplify

Out[0]=

 $rtSinh[rt\delta]$

$$In[*]:= Plot[\{\xi /. r \rightarrow 10, \xi /. r \rightarrow 50\} /. t \rightarrow 2, \{\delta, 0, 1\}]$$

Out[0]=

