	Coop	Defect
Coop	U^c, U^c	U^s, U^d
Defect	U^d, U^s	U^p, U^p

$U^d > U^c$
$U^c > U^p$
$U^p > U^s$

$\delta = \frac{1-f}{1+r}$

Grim trigger: I'll be nice until you're mean, then I'm mean forever

Is grimm a BR to Grimm?

Payoff of grimm $= U^c / (1-\delta)$

Defect? $\rightarrow U^d + U^p \delta + U^p \delta^2 + \ldots = U^p \left(\frac{\delta}{1-\delta} \right) + U^d$

Grimm is BR to Grimm

$$(1-\delta) \frac{U^c}{1-\delta} \overset{IFF}{>} U^p \frac{\delta}{1-\delta} + U^d)(1-\delta) \rightarrow \delta > \frac{U^d - U^c}{U^d - U^p}$$

$\delta \uparrow$ more coop
$U^d \uparrow$ less coop
$U^p \uparrow$ less coop
$U^c \uparrow$ more coop