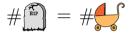


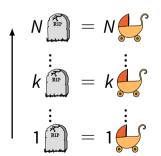
Constant population size (*N*), so between two time steps,



2

Constant population size (*N*), so between two time steps,

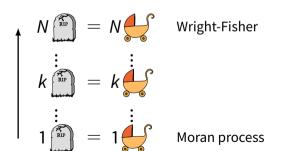
$$\#\mathbb{R}^{\mathbb{R}} = \#\mathbb{R}^{\mathbb{R}}$$



2

Constant population size (*N*), so between two time steps,

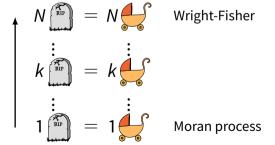
$$\#$$
 $=$ $\#$



2

Constant population size (*N*), so between two time steps,

$$\#$$
 $=$ $\#$

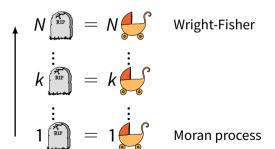


Life-cycle "Death-Birth" updating

Offspring production

Constant population size (*N*), so between two time steps,

$$\#$$
 $=$ $\#$



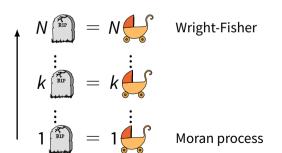
Life-cycle "Death-Birth" updating

Offspring production



Offspring dispersal

Constant population size (*N*), so between two time steps,



Life-cycle "Death-Birth" updating

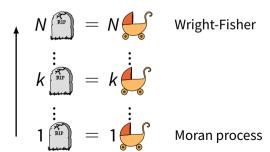
Offspring production

Offspring dispersal

k parents die

Constant population size (*N*), so between two time steps,

$$\#$$
 $=$ $\#$



Life-cycle "Death-Birth" updating Offspring production Establishment of Offspring k offspring dispersal

k parents die