```
LifeParams
+ mu j
+ mu a
                  Point
+ beta
                  + x
+ theta
                  + y
+ alpha0
+ mean dev
+ min dev
                   -coords
          Patch
   - J
   - M
    - V
     F
     comp
   - mate_rate
   + Patch()
   + Patch()
   + populate()
   + get_coords()
   + get_M()
   + get_F()
   + calculate_tot_J()
   + calculate_tot_M()
   + calculate_tot_V()
   + calculate_tot_F()
   + juv get older()
   + adults_die()
   + virgins_mate()
   + lay_eggs()
   + juv_eclose()
   + update_comp()
   + update_mate()
   + M disperse out()
   + F_disperse_out()
   + M_disperse_in()
   + F_disperse_in()
   + F hide()
   + F wake()
   + add_driver_M()
```