Base class

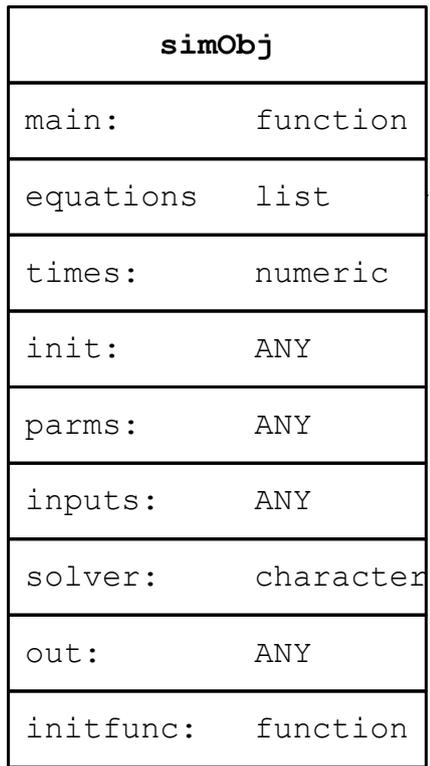| simObj |
| --- |
| main: function |
| equations list |
| times: numeric |
| init: ANY |
| parms: ANY |
| inputs: ANY |
| solver: character |
| out: ANY |
| initfunc: function |

list of functions

Generic Functions

general
```
sim(simObj, ...)
plot(simObj, ...)
initialize
```
...

accessor functions
```
parms(simObj),
"parms<-"(simObj, value)
fixParms(simObj)
```
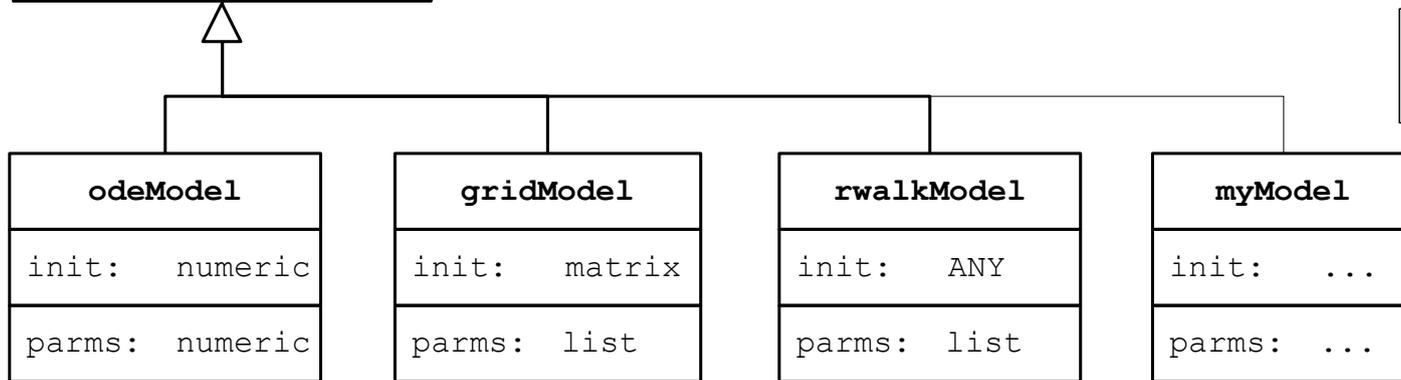 **...**

Solvers
```
euler, rk4, lsoda, iteration
```

Utility Functions
```
neighbors, fromtoby, ...
```

Subclasses

odeModel
init: numeric
parms: numeric

gridModel
init: matrix
parms: list

rwalkModel
init: ANY
parms: list

myModel
init: ...
parms: ...

user defined model family

Example Objects

lv

lv3

diffusion

upca

conway

stochCA