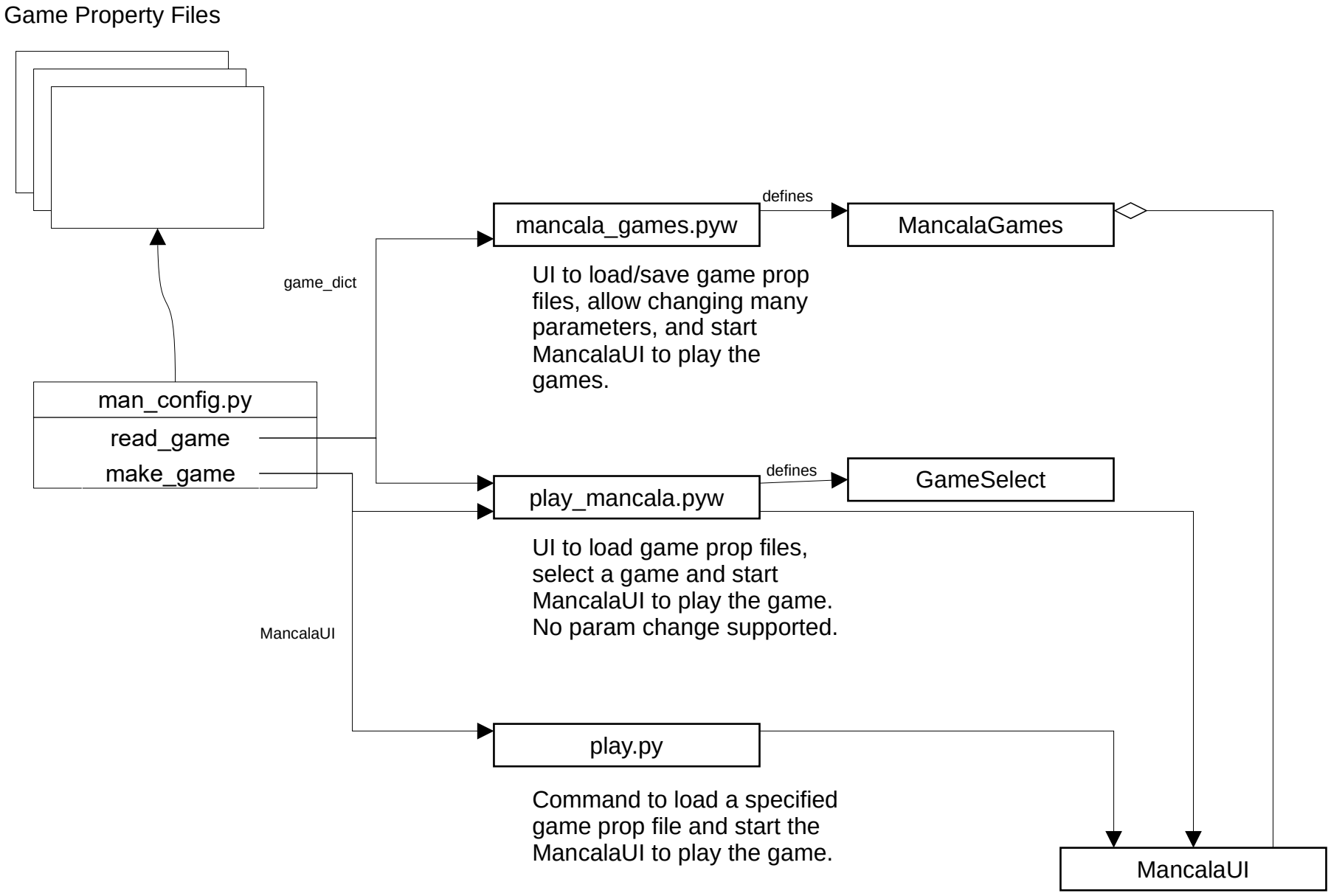
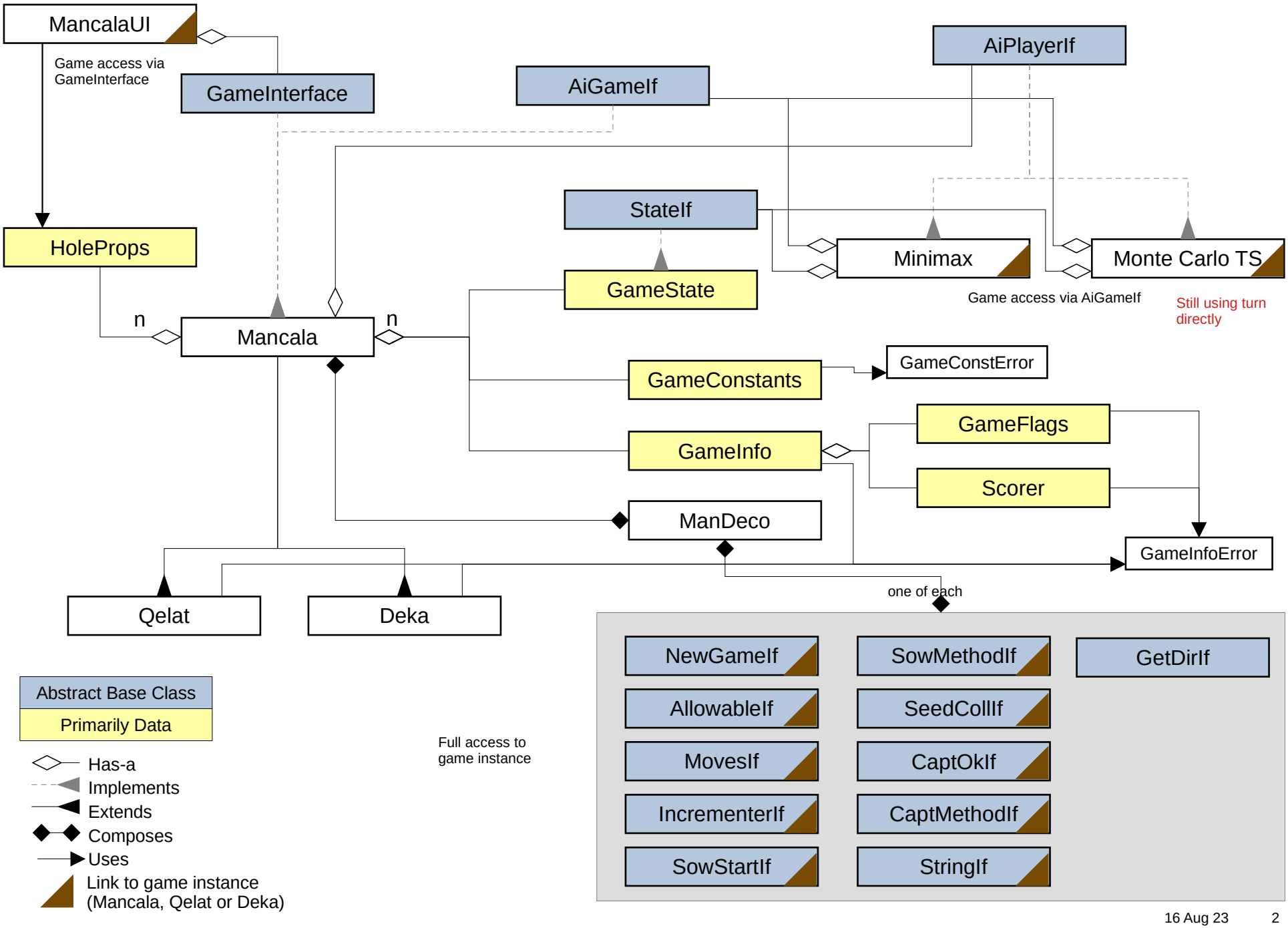
Mancala Games



Mancala Game Classes



Decorator Usage

Mancala Move Steps

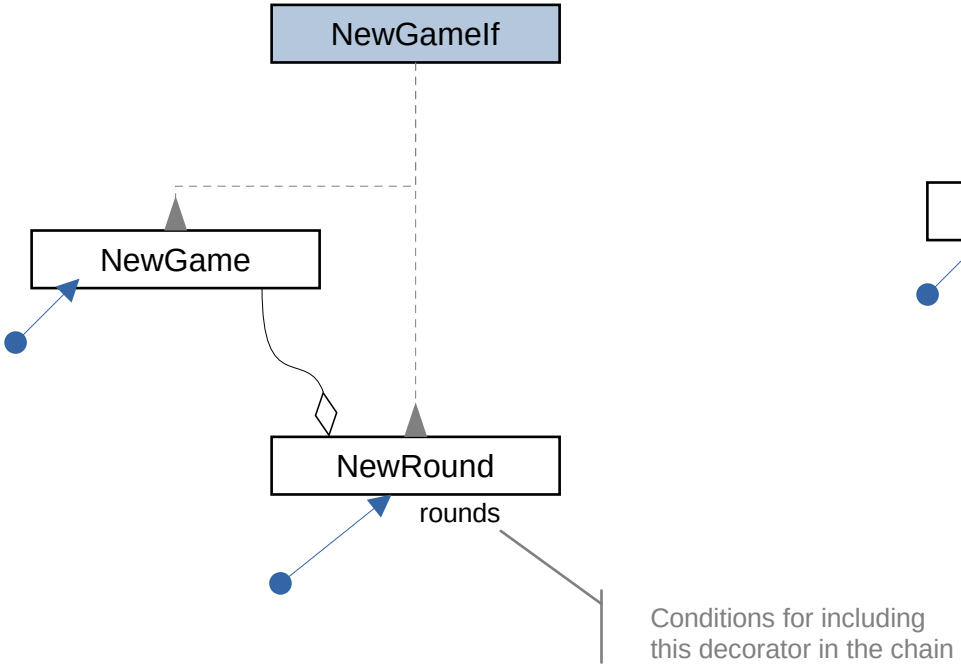
Mancala Methods (mancala.py)		Step Number	Description	Decorator(s)
move		1	Parse move & execute pass	
	do_sow	2	Start Sow (first hole, seeds)	sow_start
		3	Get Direction (CW or CCW)	get_direction
		4	Sow – drop seeds	sower & incr
	capture_seeds	5	Capture Seeds	capt_ok, capturer & incr
	win_conditions	6	Win Condition – is game over	collector

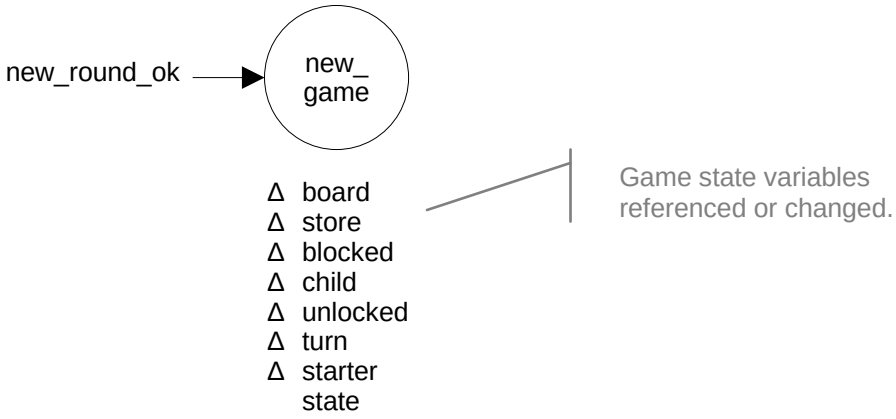
Decorator Calls (non-move)

Interface	Method (mancala.py)	Decorator
GameInterface	new_game	new_game
GameInterface	get_allowable_holes	allowables
AIGameIf	get_moves	get_moves
not applicable	__str__	get_string

New Game Classes and Deco

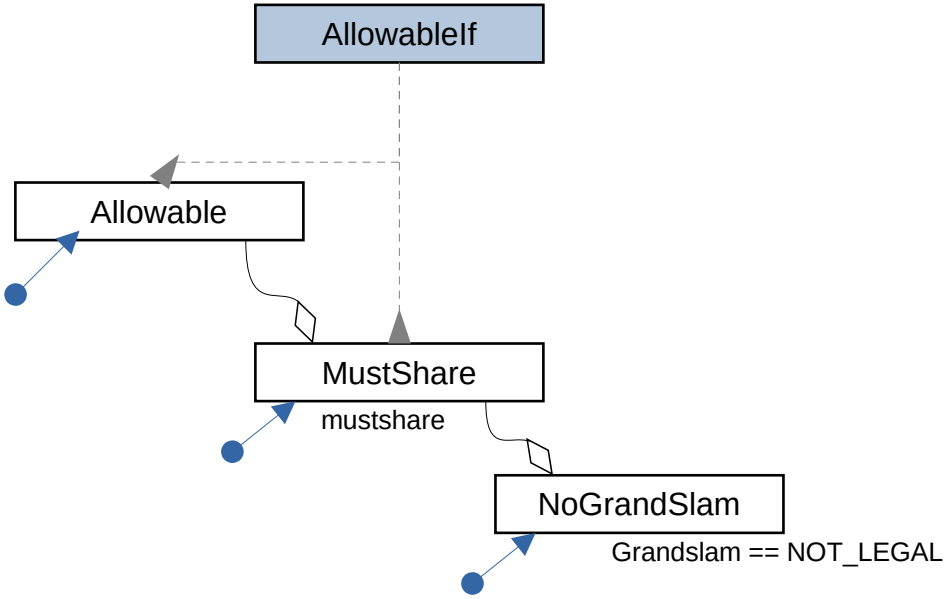
new_game.py

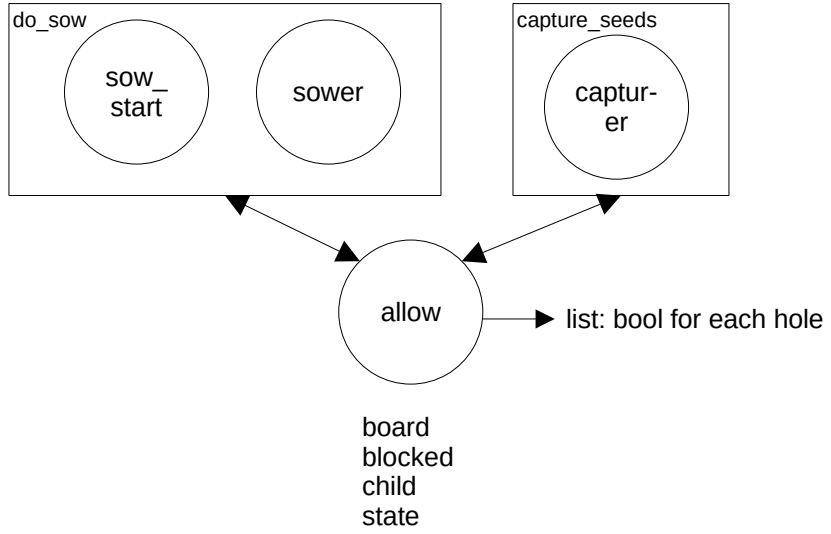




Allowable Classes and Deco

allowables.py



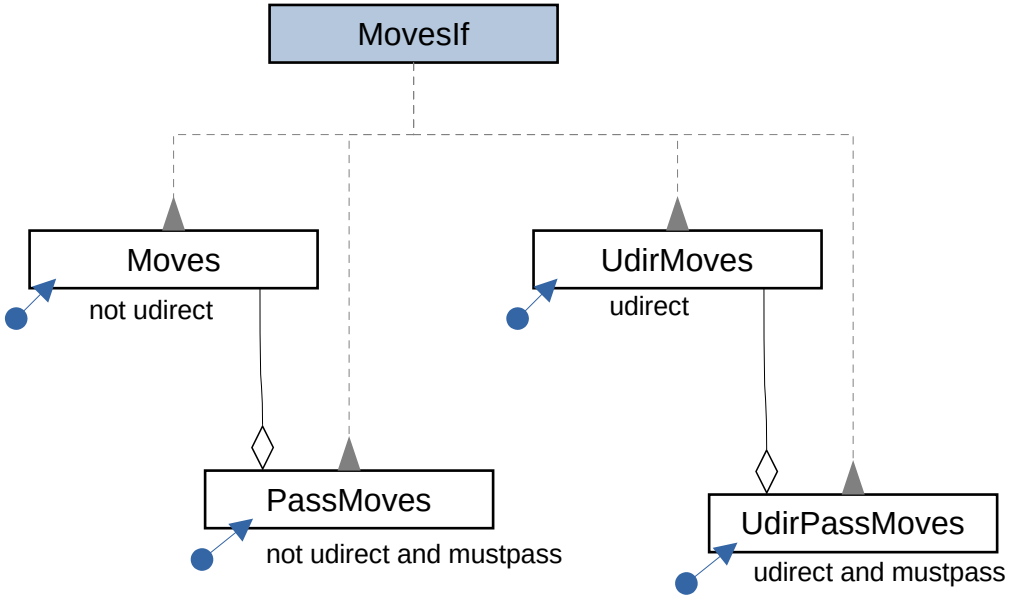


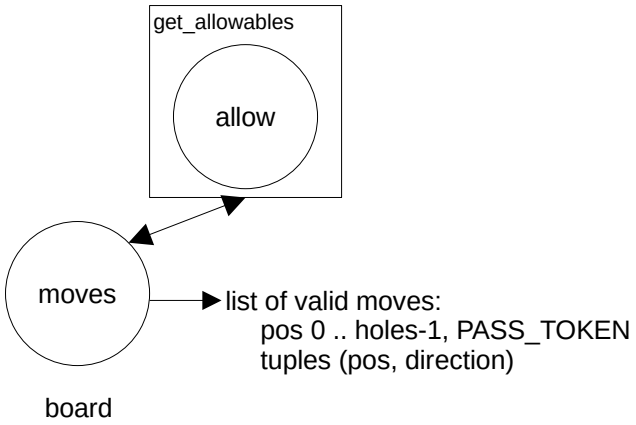
Possible decorator chain start

Δ game state changed

Get Moves Classes and Deco

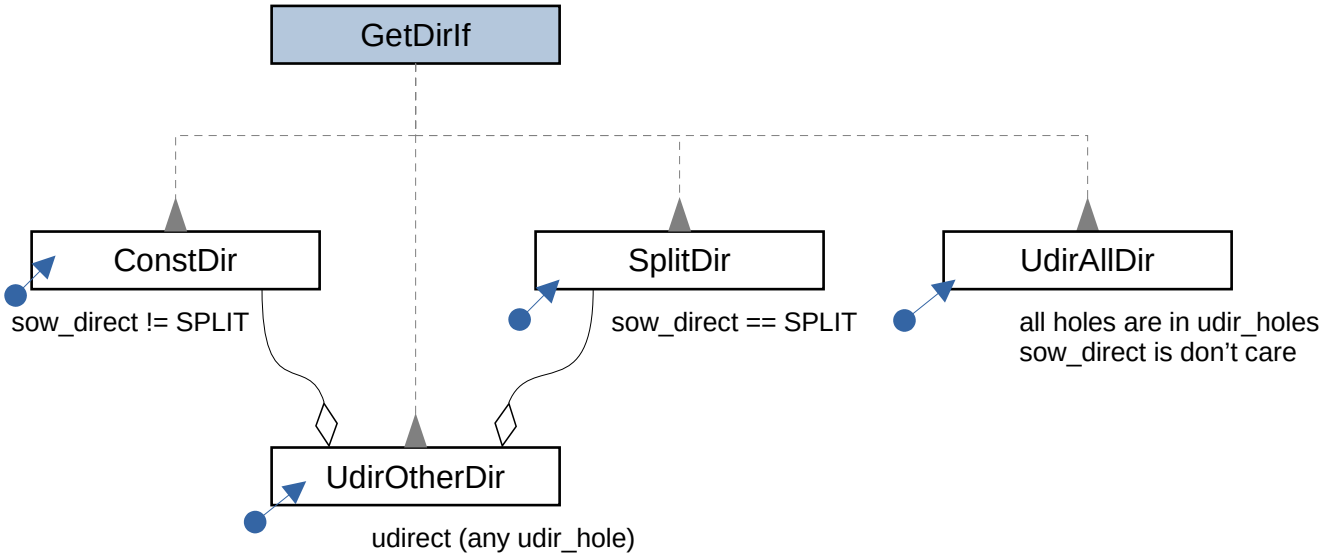
get_moves.py

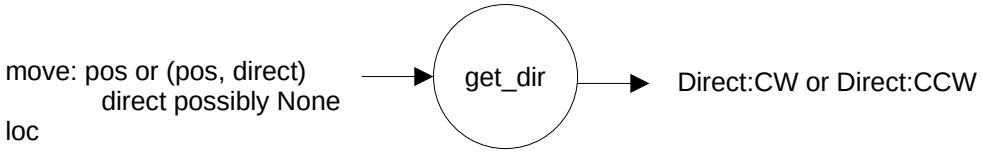




Get Direction Classes and Deco

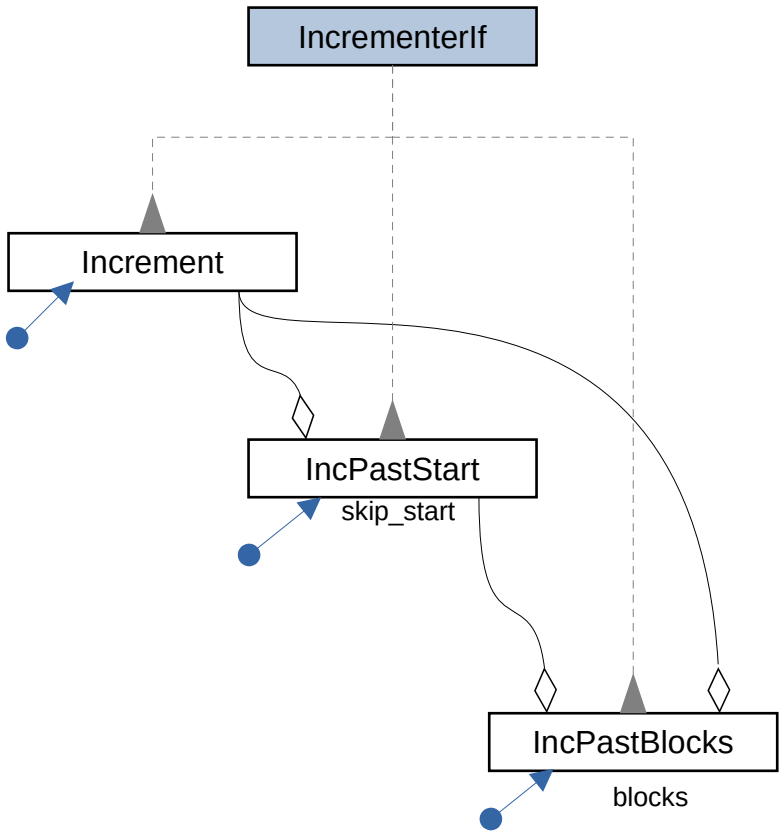
get_direction.py

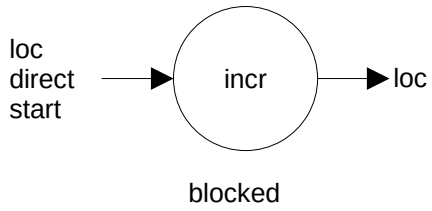




Incrementer Classes and Deco

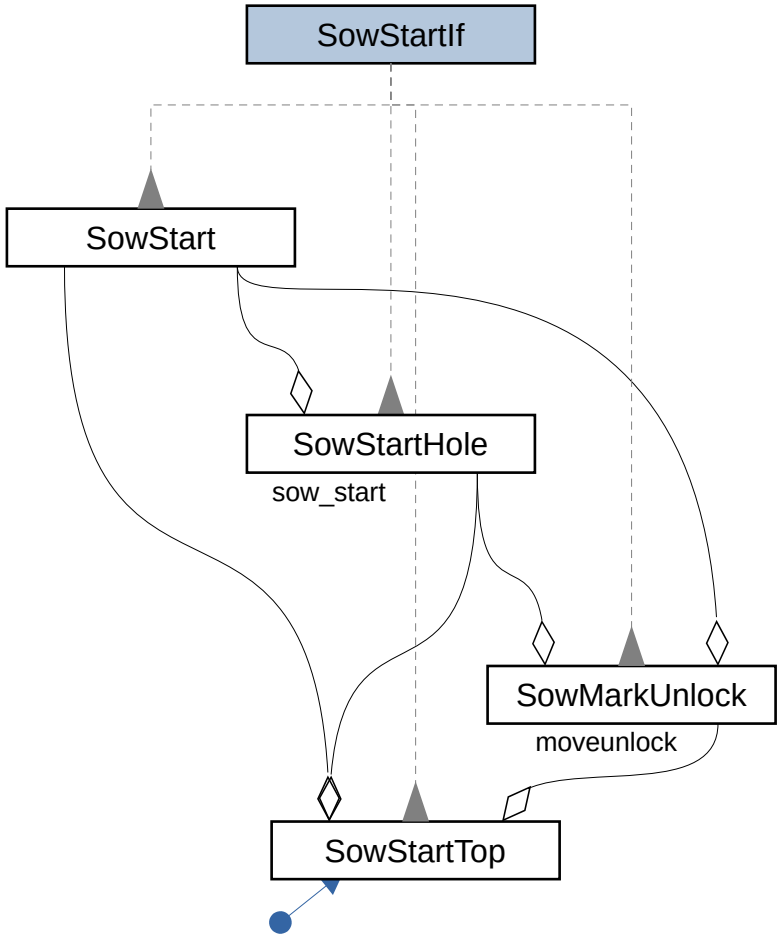
incrementer.py

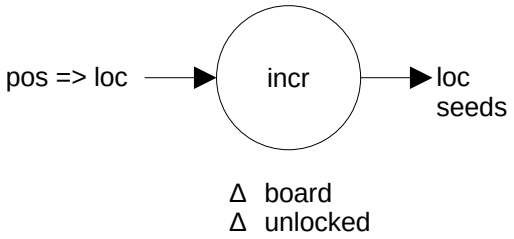




Sow Starter Classes and Deco

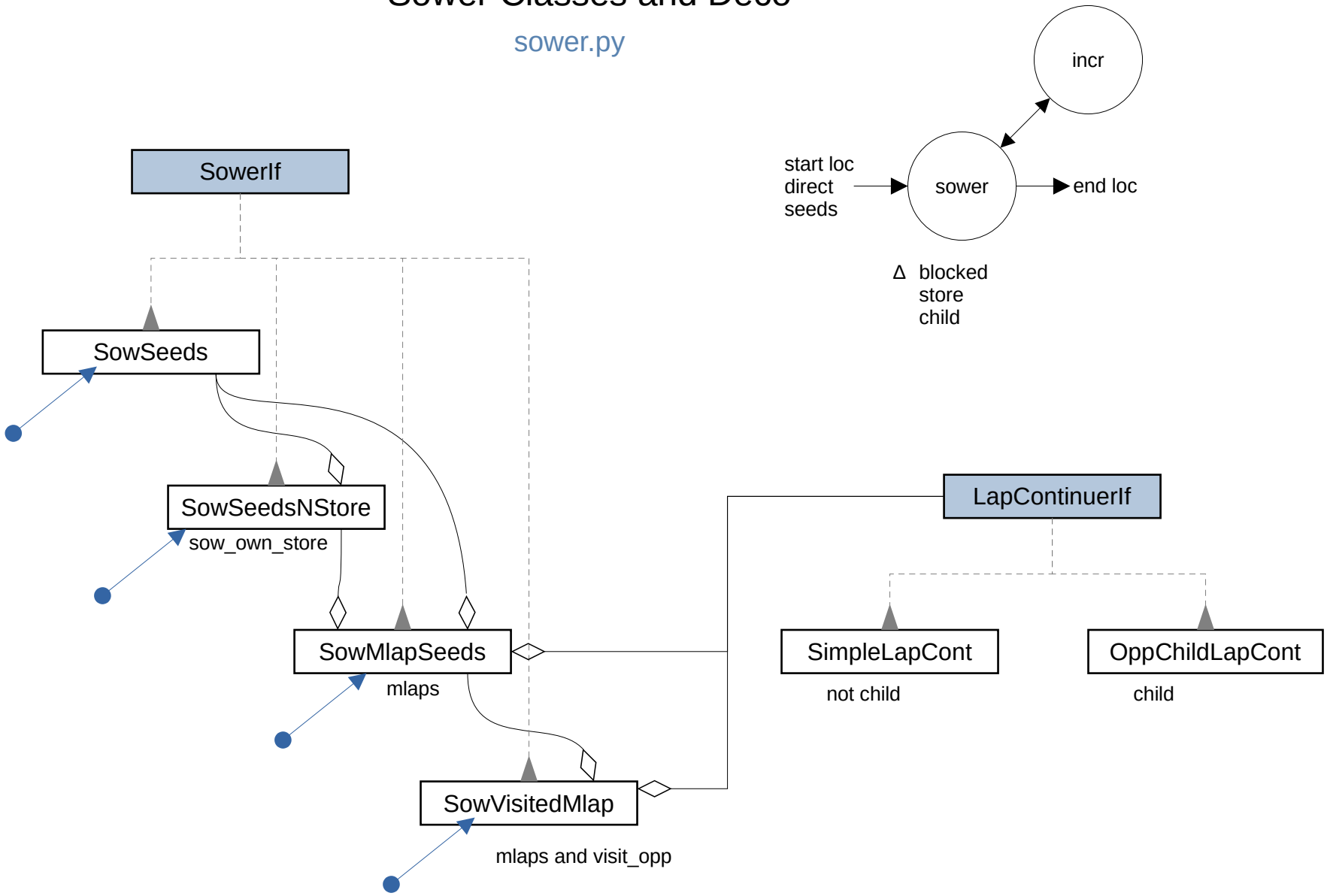
sow_starter.py





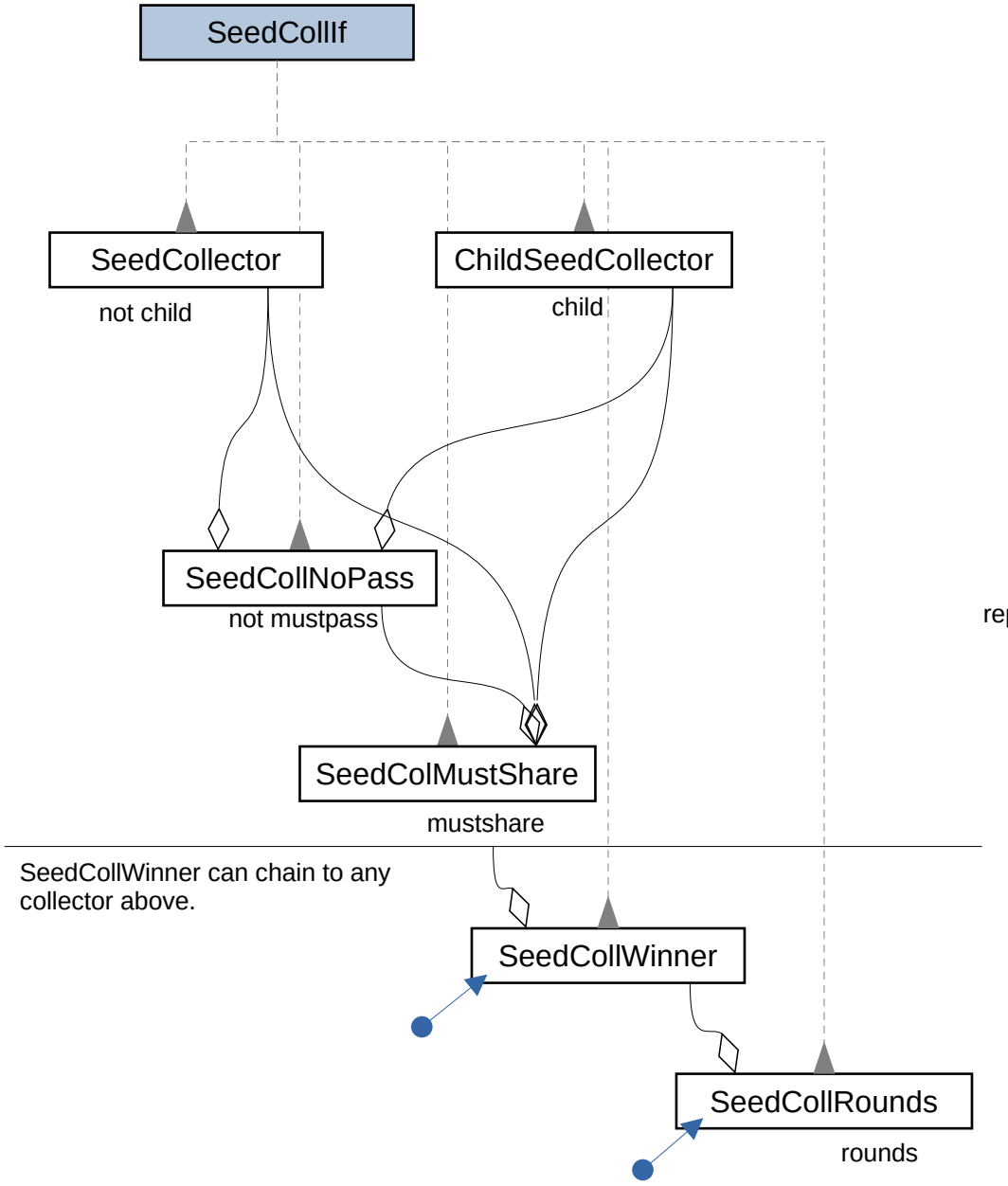
Sower Classes and Deco

sower.py

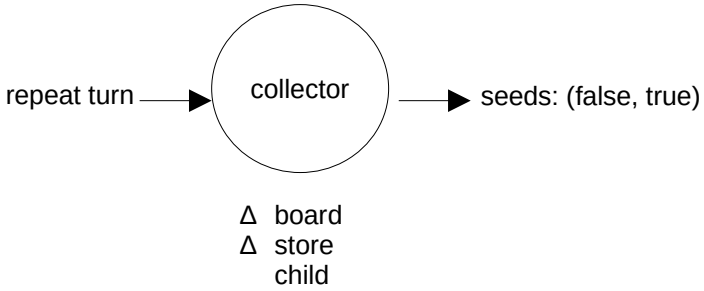


Seed Collector Classes and Deco

seed_collector.py

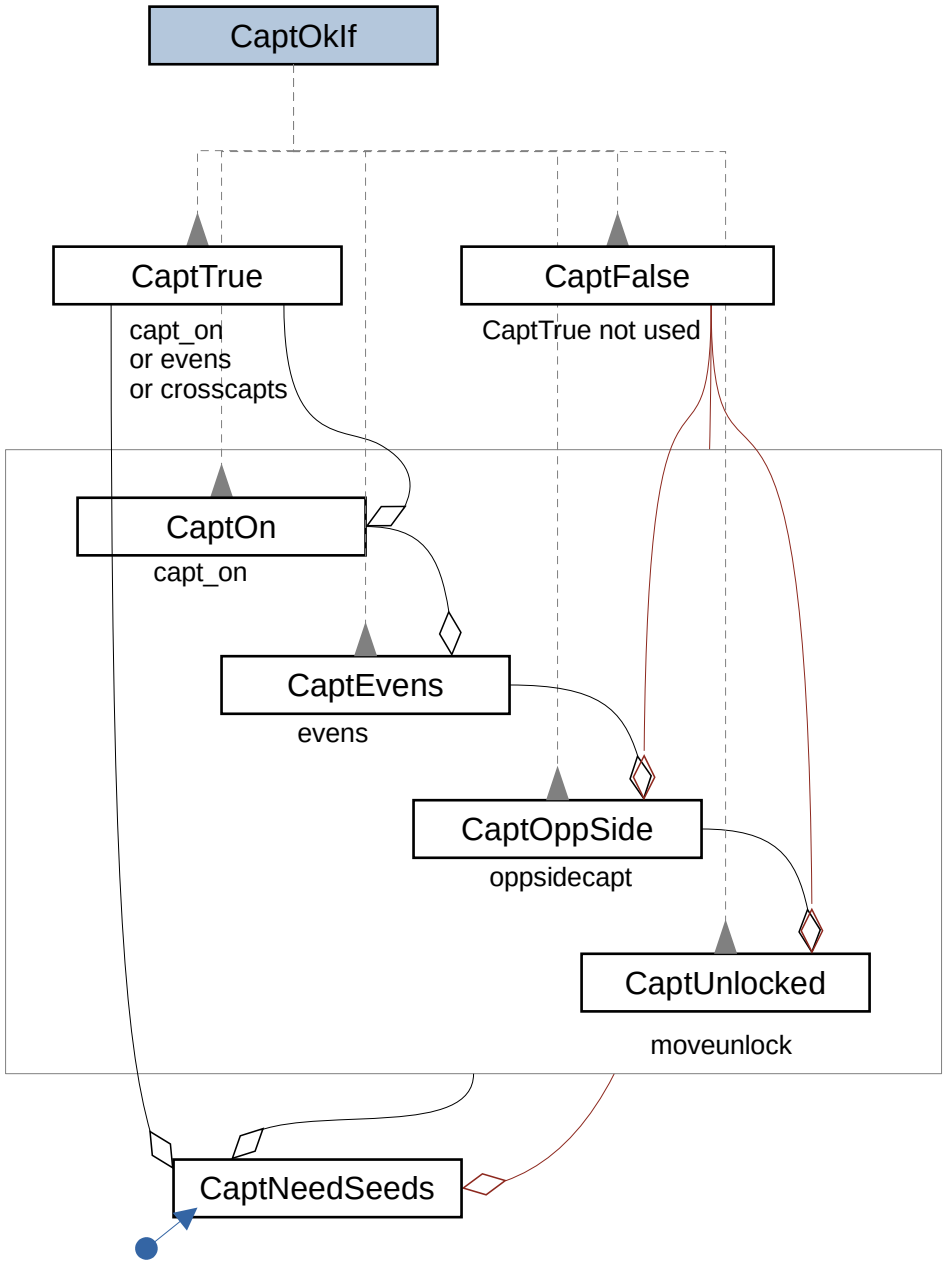


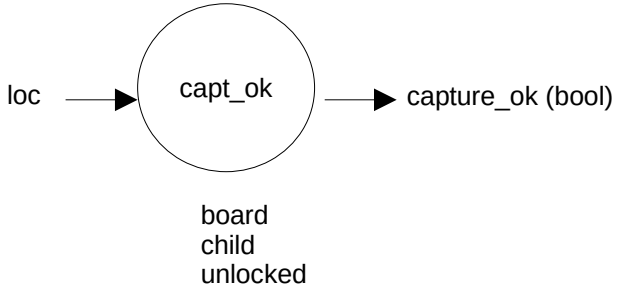
The seed_collector deco chain is used as a first step in determining if the game or round is over and/or there is a win/tie. Each deco can decide that the game is over.



Capt Ok Classes and Deco

capt_ok.py





Each element in chain is optional based on specified conditions.
The link goes to the next deco that applies.
The deco chain that ends in CaptTrue are effectively anded together.
The CaptFalse doesn't really make sense.

Capturer Classes and Deco

capturer.py