

draw-tail

Setup

Right now you should have a head that moves correctly.

1. Add the following to your code: `posn(225, 175)`

```
t2 = posn(175, 175)
t1 = posn(125, 175)
t0 = posn(75, 175)
```

```
L = [list: t0, t1, t2]
```

2. Then change “start” to:

```
start = snake(posn(225, 175), posn(50, 0), L)
```

Run the reactor. See anything different?

To draw the snake blocks with `put-image`, you could use this command:

```
put-image(snake-head, t0.x, t0.y,
          put-image(snake-head, t1.x, t1.y,
                    put-image(snake-head, t2.x, t2.y, bg)))
```

3. Try it and see that it works!
4. What would we need to do if we had one more square to the left of `t0`?

What happens in the empty case?

9. Fill in the blanks:

```
fun draw-tail(tail-list):  
  cases (List) tail-list:  
    |empty => _____  
  
    |link(f, r) => _____  
end
```

Implement

10. Your draw-tail brings in a list and outputs an image. How will you get the list from the game state? You will need to do this because draw-state brings in the data from the whole game.
11. Now you have the tail drawn on the background, change the draw-state function so that the head is drawn on top of this image.
12. You can use a different square for the tail. In draw-tail, before the cases line, define tail-square to be the color and outline of your liking, and use that in the link(f, r) statement instead.

Our next step is to detect the head crashing into a wall or the tail on its next move, and then to make the tail move with the head. After that I will give you a mechanic for placing food, and have your program grow each time it grabs a “pellet!”

Then you