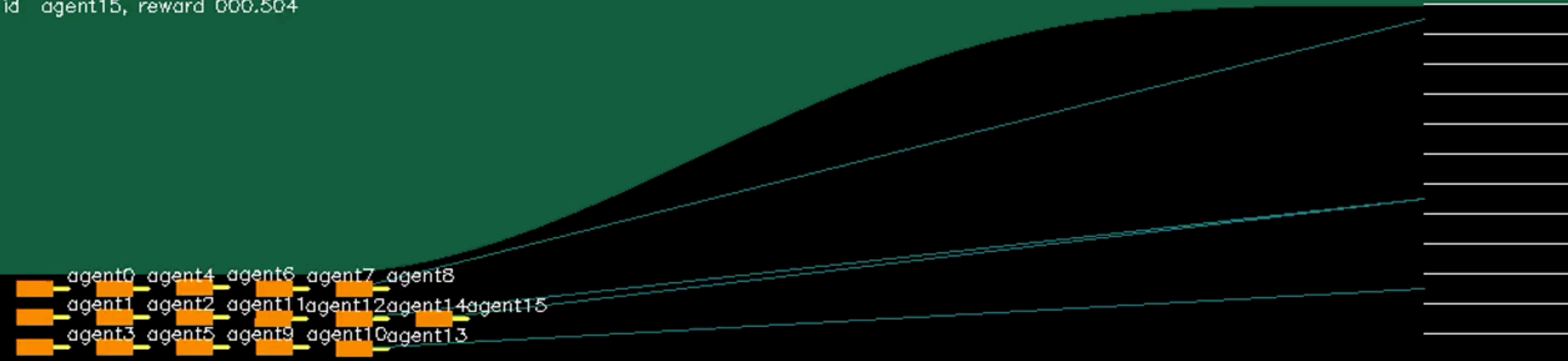




Emergence of “intelligent behaviors”

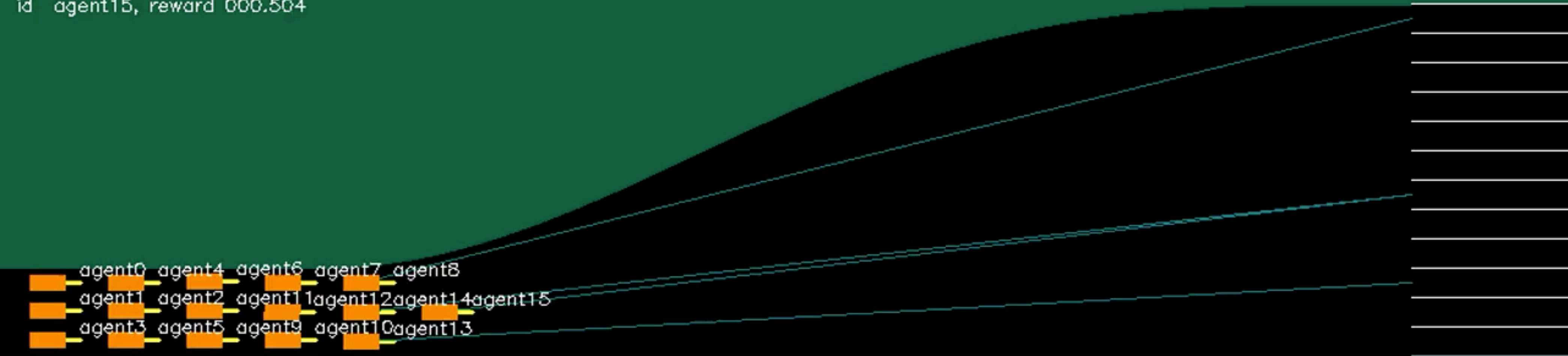
id agent0, reward 000.370
id agent1, reward 000.278
id agent2, reward 000.582
id agent3, reward 000.232
id agent4, reward 000.386
id agent5, reward 000.314
id agent6, reward 000.299
id agent7, reward 000.323
id agent8, reward 000.144
id agent9, reward 000.574
id agent10, reward 000.421
id agent11, reward 000.531
id agent12, reward 000.604
id agent13, reward 000.594
id agent14, reward 000.316
id agent15, reward 000.504



PPO-0409-2 40-iters

- At 40th iteration
- Learned how to line up and deceleration.

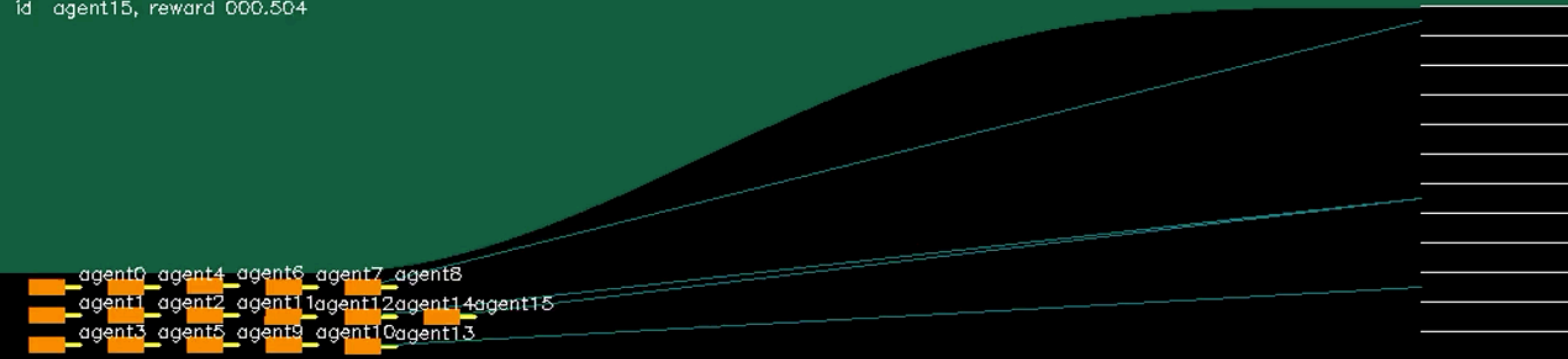
```
id agent0, reward 000.370
id agent1, reward 000.278
id agent2, reward 000.582
id agent3, reward 000.232
id agent4, reward 000.386
id agent5, reward 000.314
id agent6, reward 000.299
id agent7, reward 000.323
id agent8, reward 000.144
id agent9, reward 000.574
id agent10, reward 000.421
id agent11, reward 000.531
id agent12, reward 000.604
id agent13, reward 000.594
id agent14, reward 000.316
id agent15, reward 000.504
```



PPO-0409-2 40-iters

Emergence of “intelligent behaviors”

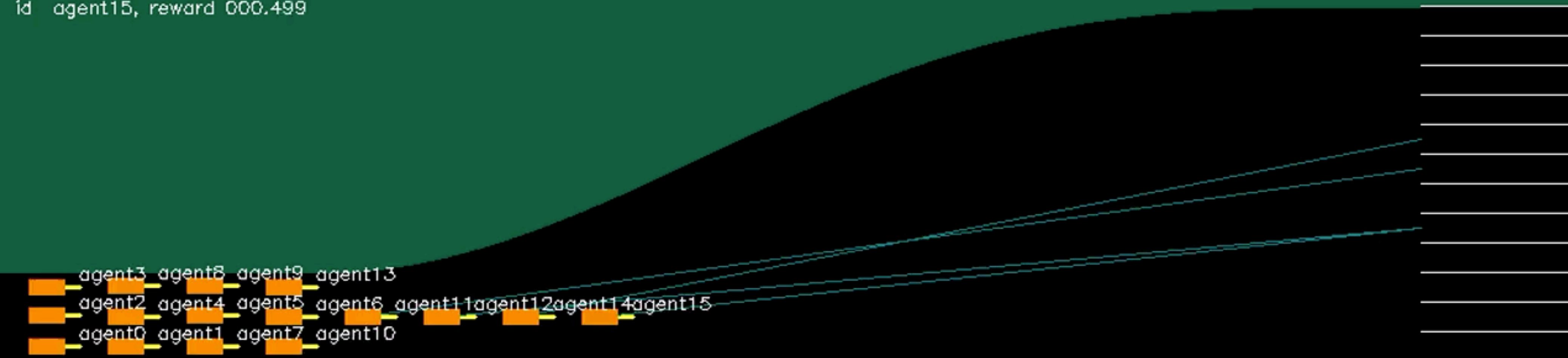
```
id  agent0, reward 000.370
id  agent1, reward 000.278
id  agent2, reward 000.582
id  agent3, reward 000.232
id  agent4, reward 000.386
id  agent5, reward 000.314
id  agent6, reward 000.299
id  agent7, reward 000.323
id  agent8, reward 000.144
id  agent9, reward 000.574
id  agent10, reward 000.421
id  agent11, reward 000.531
id  agent12, reward 000.604
id  agent13, reward 000.594
id  agent14, reward 000.316
id  agent15, reward 000.504
```



- At 40th iteration
- Learned how to line up and deceleration.

Emergence of “intelligent behaviors”

```
id  agent0, reward 000.251
id  agent1, reward 000.555
id  agent2, reward 000.574
id  agent3, reward 000.130
id  agent4, reward 000.383
id  agent5, reward 000.281
id  agent6, reward 000.372
id  agent7, reward 000.538
id  agent8, reward 000.476
id  agent9, reward 000.245
id  agent10, reward 000.531
id  agent11, reward 000.557
id  agent12, reward 000.380
id  agent13, reward 000.459
id  agent14, reward 000.386
id  agent15, reward 000.499
```



- At 40th iteration
- Speed control is imperfect.

PPO-0409-2 50-iters