Discrete Event Simulation

Small Input Example

3

0 1

1 2

2 3

4

t 0 1 1.2

t 2 1.3 0.5

t 1 1.2 2

m 0 8.2 2

1 2

1 1

What we have

- 3 players
- 3 Training attempts
  - Player 0 arrives at 1 with training time 1.2
  - Player 1 arrives at 1.2 with training time 2
  - Player 2 arrives at 1.3 with training time 0.5
- 1 massage attempt
  - Player 0 arrives at 8.2 with massage time 2
- 1 physiotherapist with 2 seconds service time
- 1 coach and 1 masseur

TIME: 0

Training Coach

Physiotherapist

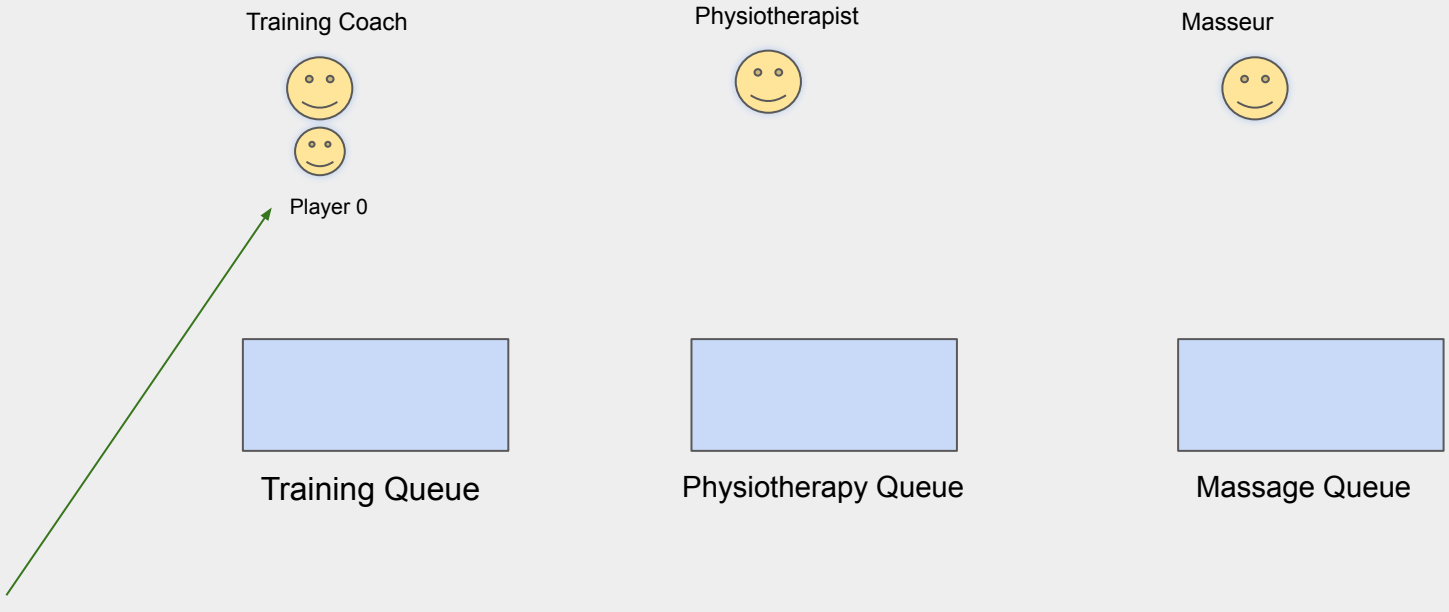
Masseur

Training Queue

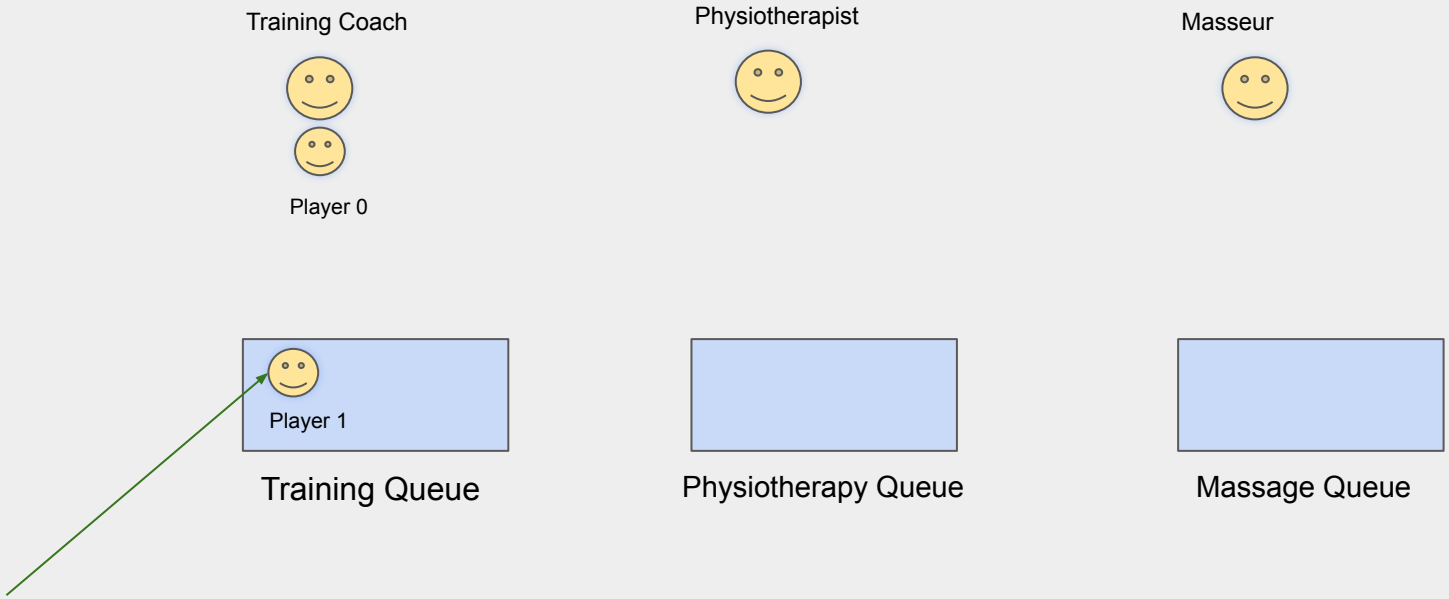
Physiotherapy Queue

Massage Queue

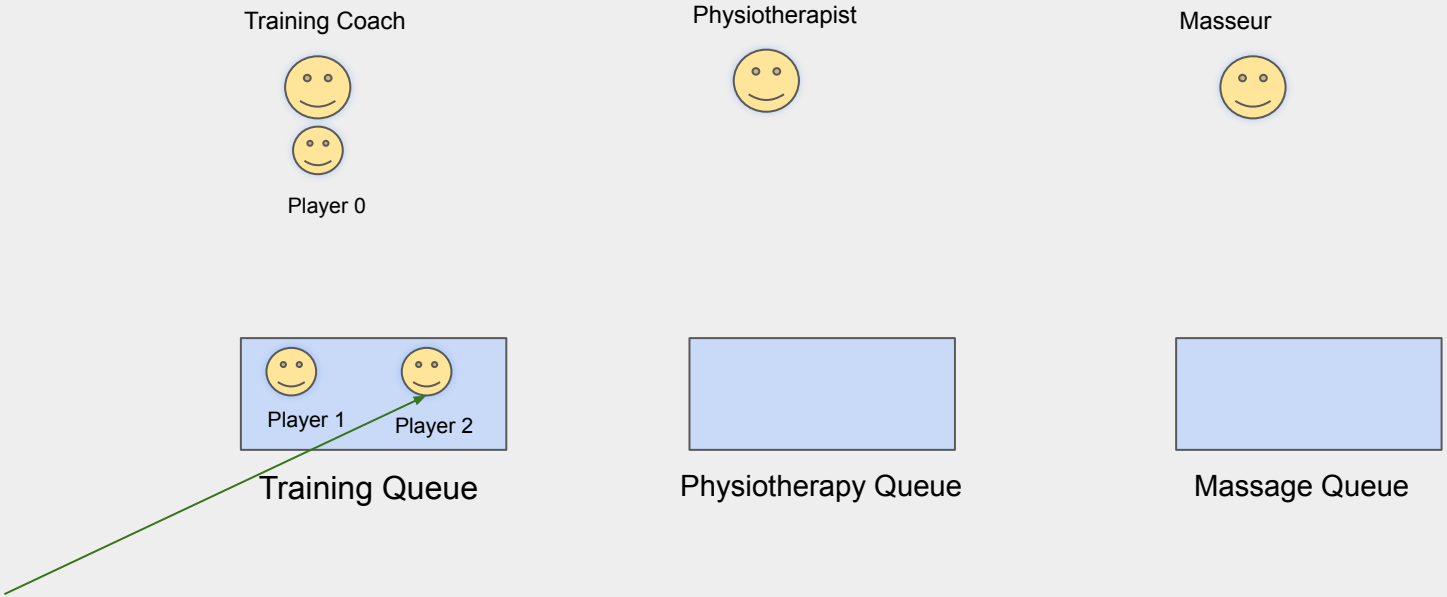
TIME: 1


Training Coach
Physiotherapist
Masseur
Player 0
Training Queue
Physiotherapy Queue
Massage Queue

TIME: 1.2

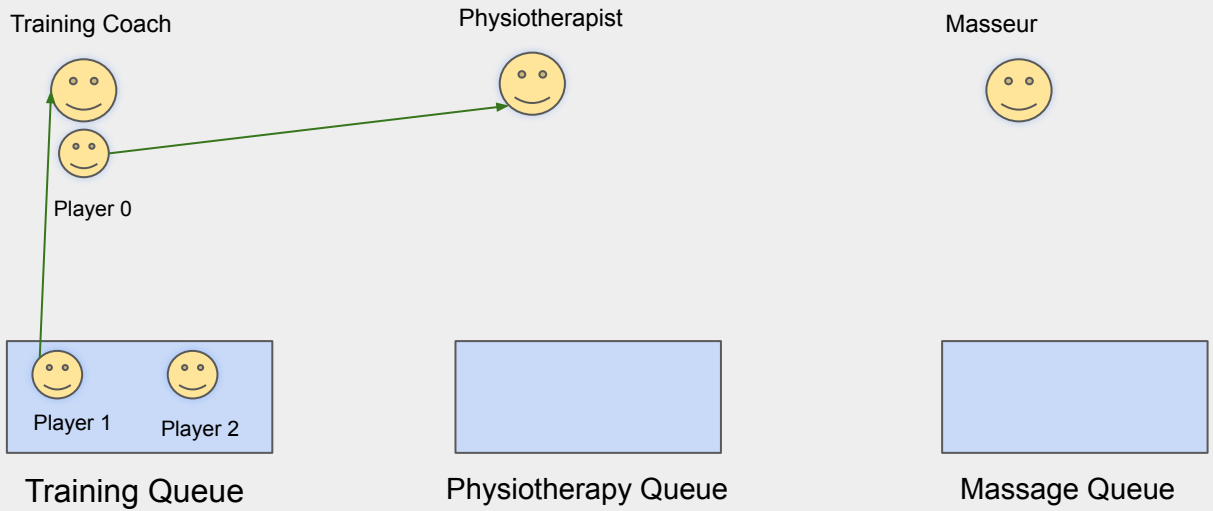

Training Coach
Player 0
Physiotherapist
Masseur
Player 1
Training Queue
Physiotherapy Queue
Massage Queue

TIME: 1.3


Training Coach
Physiotherapist
Masseur
Player 0
Player 1
Player 2
Training Queue
Physiotherapy Queue
Massage Queue

Movements

TIME: 2.2



TIME: 2.2

Training Coach

Player 1

Physiotherapist

Player 0

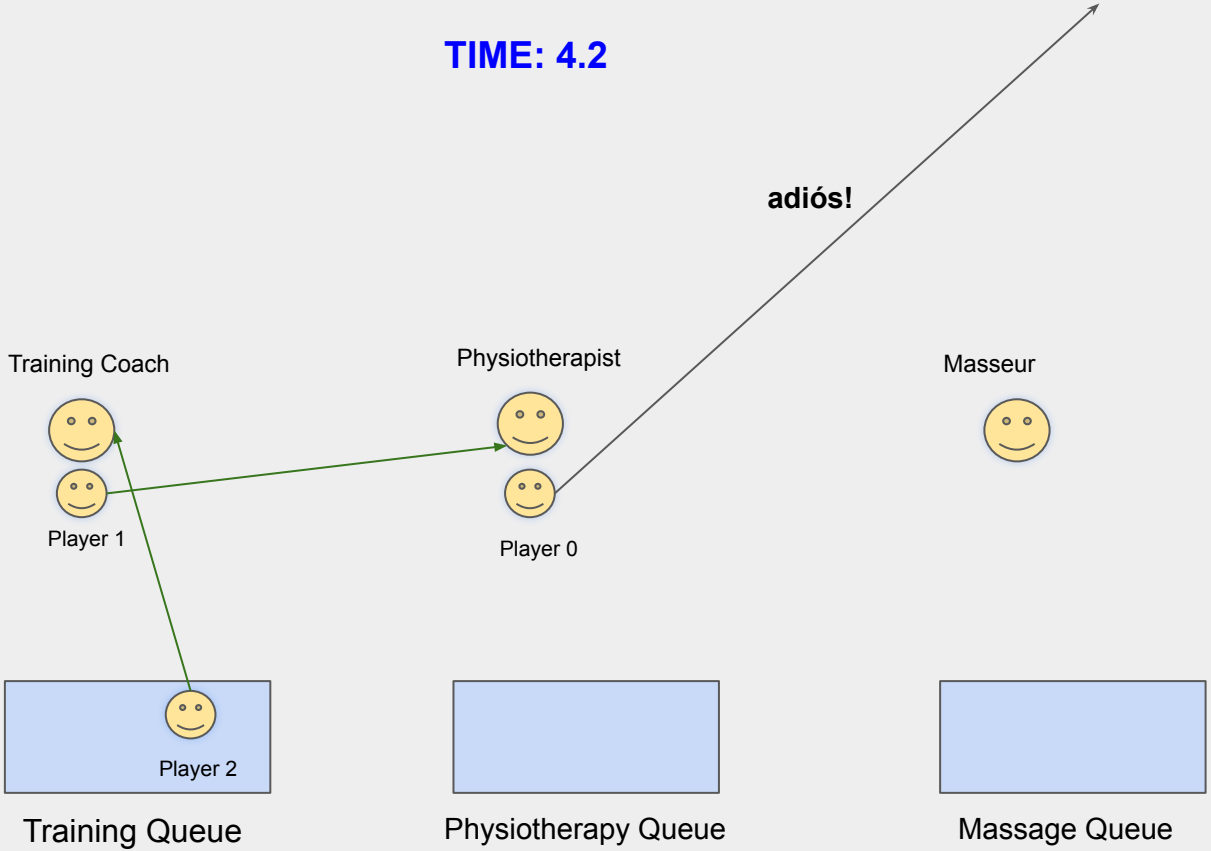
Masseur

Training Queue

Physiotherapy Queue

Massage Queue

Movements


TIME: 4.2
adiós!
Training Coach
Physiotherapist
Masseur
Player 1
Player 0
Player 2
Training Queue
Physiotherapy Queue
Massage Queue

TIME: 4.2

Training Coach

Player 2

Physiotherapist

Player 1

Masseur

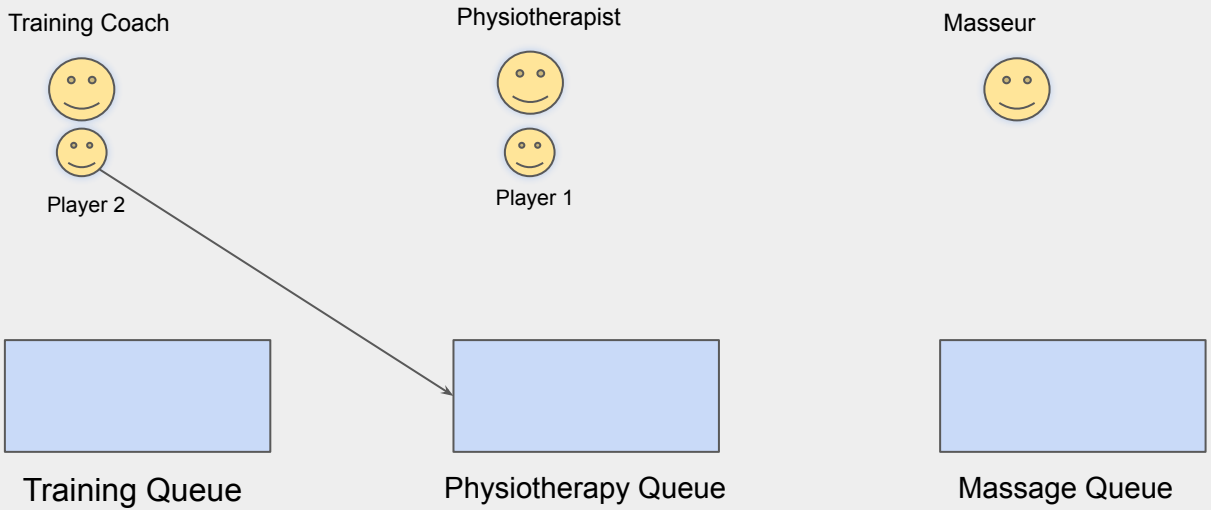
Training Queue

Physiotherapy Queue

Massage Queue

Movements

TIME: 4.7



TIME: 4.7

Training Coach

Physiotherapist

Player 1

Masseur

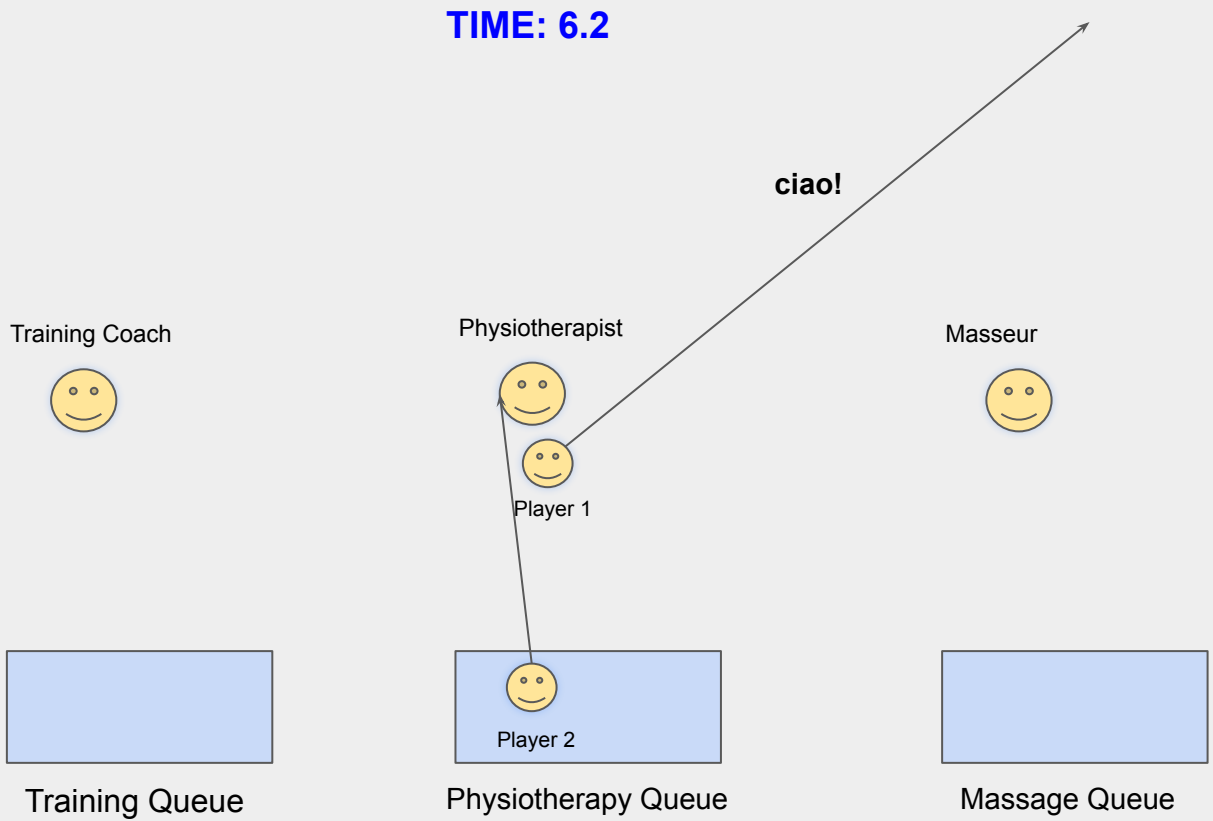
Training Queue

Player 2

Physiotherapy Queue

Massage Queue

Movements


TIME: 6.2
ciao!
Training Coach
Physiotherapist
Masseur
Player 1
Player 2
Training Queue
Physiotherapy Queue
Massage Queue

TIME: 6.2

Training Coach

Physiotherapist

Player 2

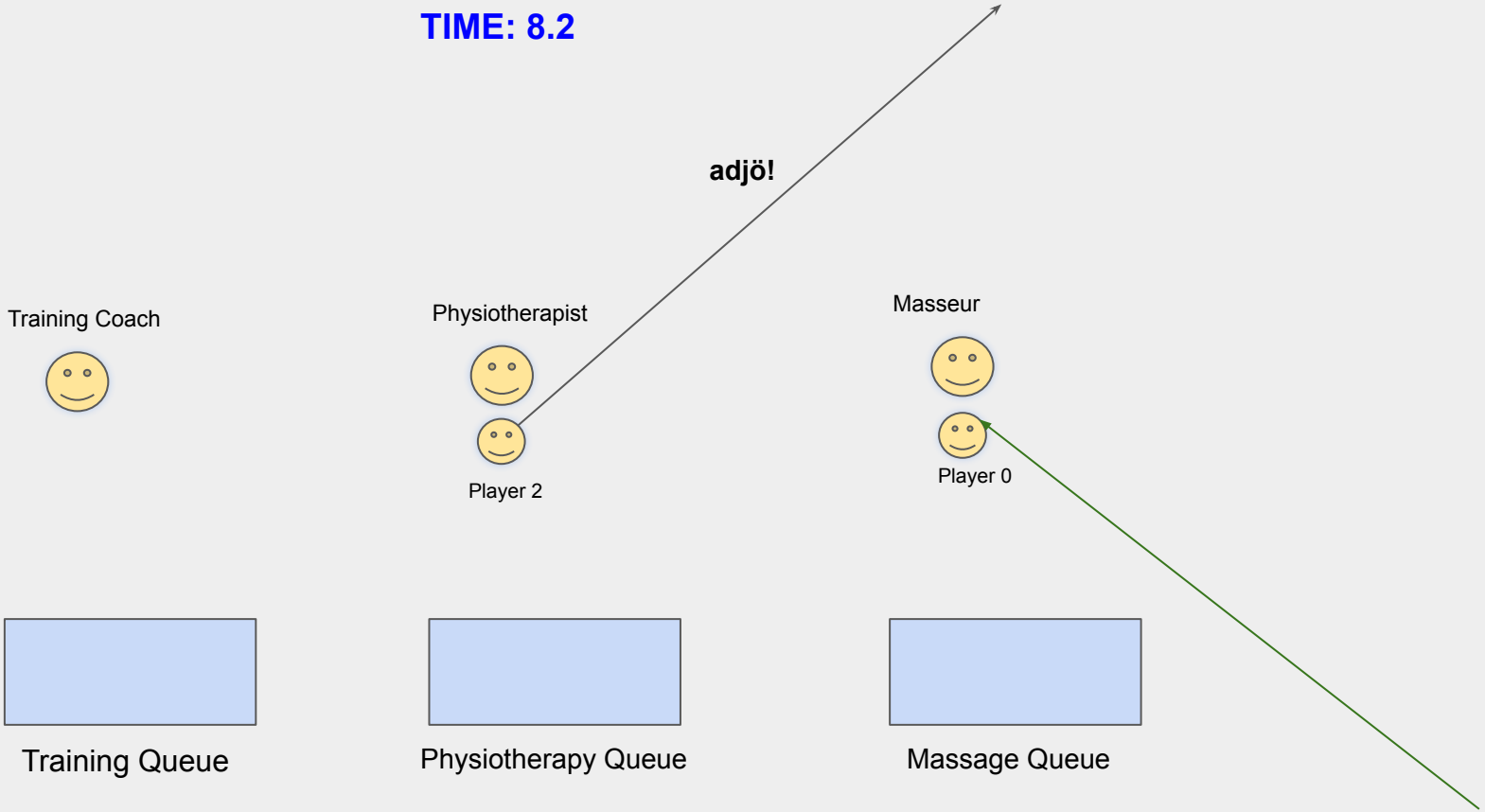
Masseur

Training Queue

Physiotherapy Queue

Massage Queue

Movements


TIME: 8.2
adjö!
Training Coach
Physiotherapist
Masseur
Player 2
Player 0
Training Queue
Physiotherapy Queue
Massage Queue

TIME: 8.2

Training Coach

Physiotherapist

Masseur

Player 0

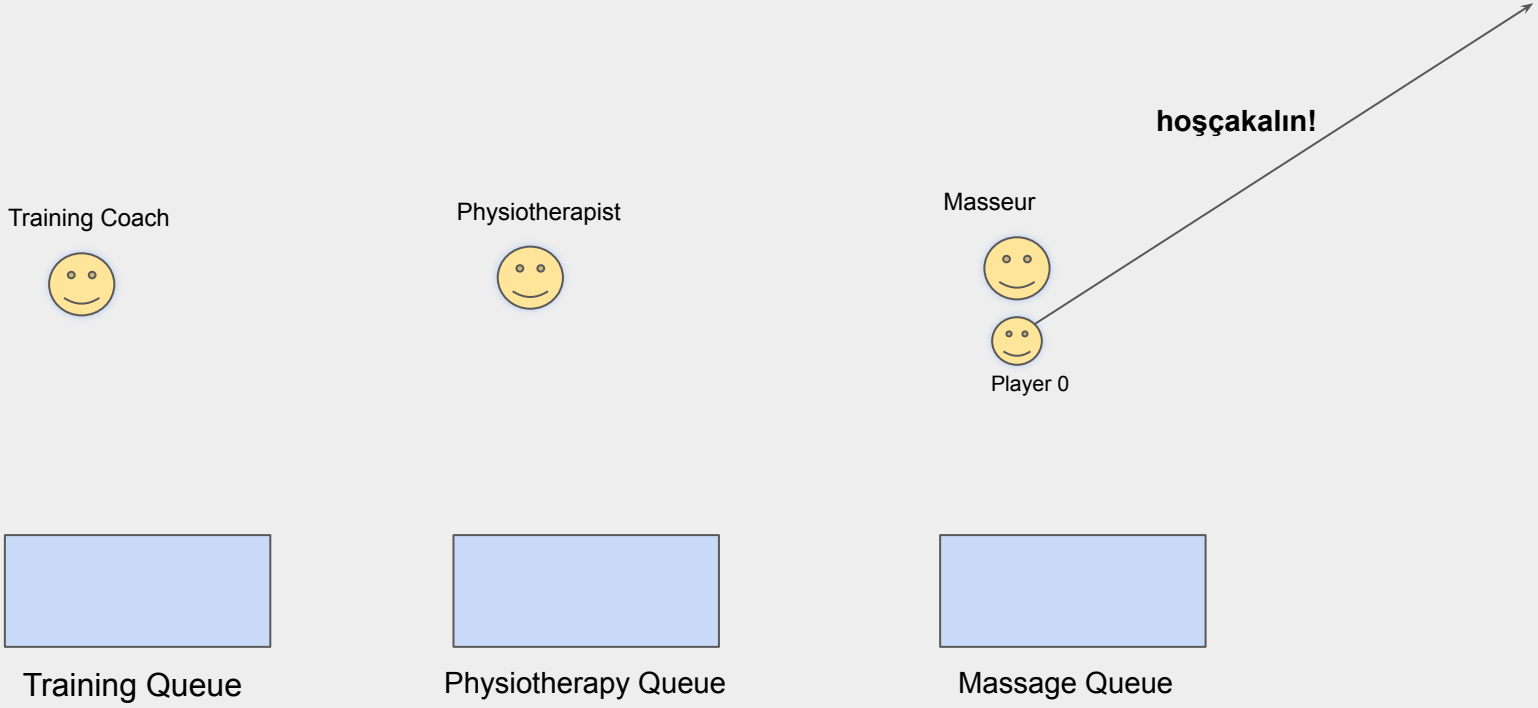
Training Queue

Physiotherapy Queue

Massage Queue

Movements

TIME: 10.2



END!

TIME: 10.2

Training Coach

Physiotherapist

Masseur

Training Queue

Physiotherapy Queue

Massage Queue