

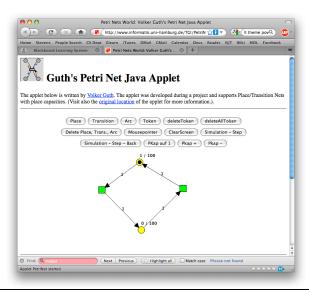
# Exercise: Train system

Consider a railroad system with 4 tracks
 (1,2,3,4) and 2 trains (A,B). No two trains should be at the same track at the same time and we want to distinguish the two trains.

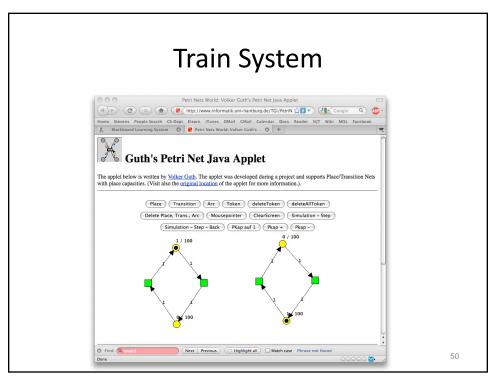


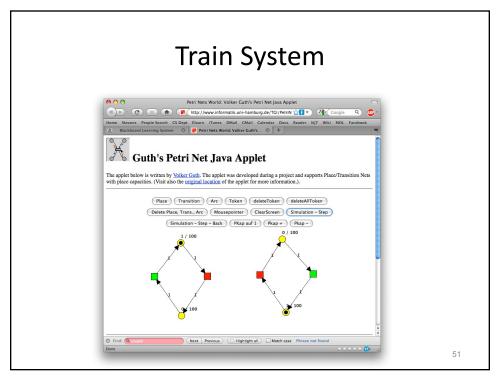
48

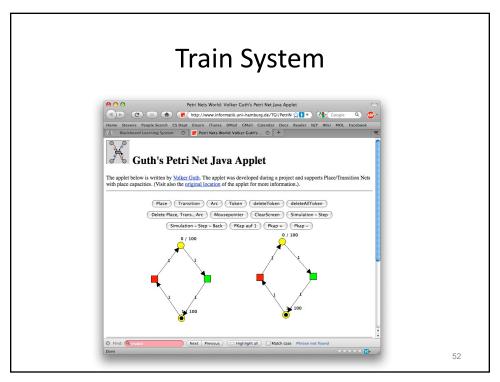
## Train System

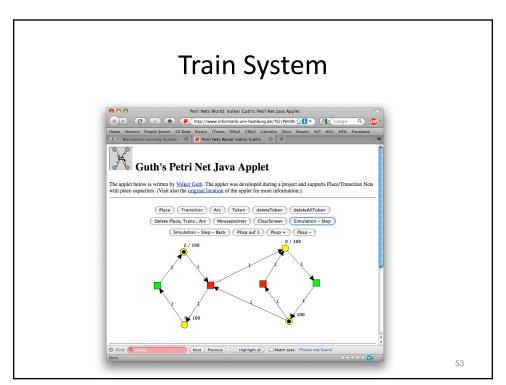


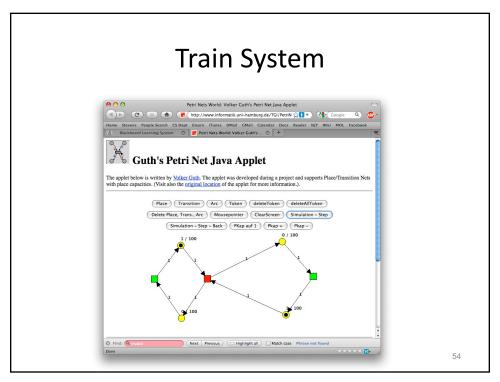
49

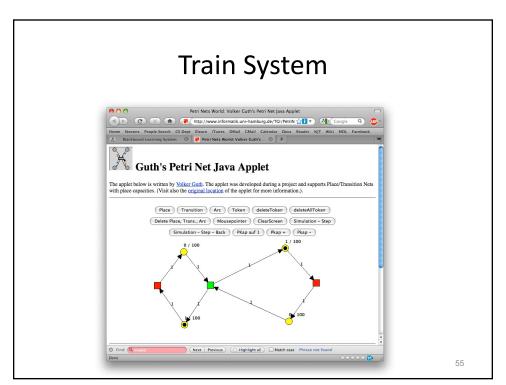


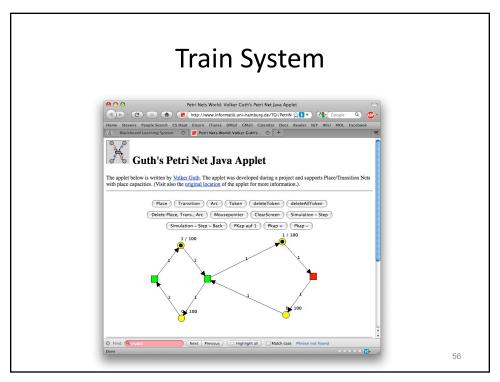


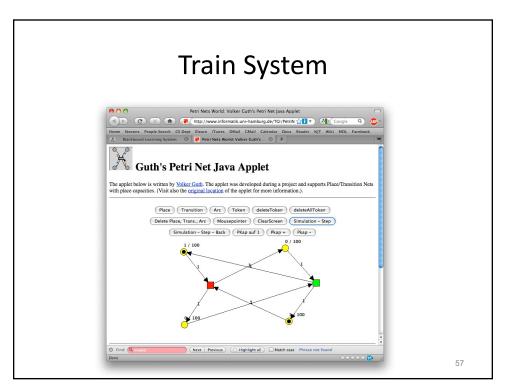


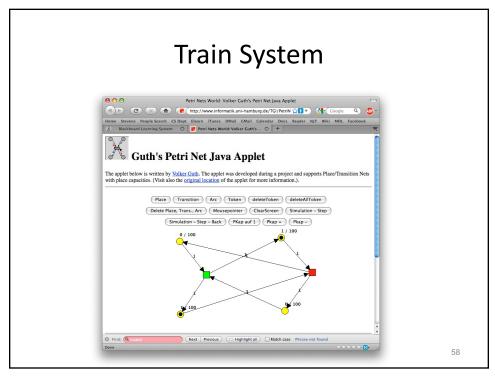












# Train System Petr Nes World Volver Cuth's Petr Net Java Applet Inter Java Month Standard Learning System Guth's Petri Net Java Applet The applet below is written by Vollar Cuth. The applet was developed during a project and supports Place Transition Nets with place capacities. (Vair also the original location of the applet for more information.). Place Transition Are Token deductored in Medital Match case Please not found | Place Transition | Are Token | Token

### Exercise: Train system

Consider a railroad system with 4 tracks
 (1,2,3,4) and 2 trains (A,B). No two trains should be at the same track at the same time.
 Moreover the next track should also be free to allow for a safe distance. (We do not care about train identities.)

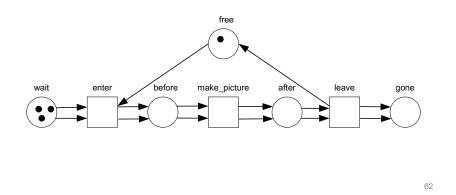
60

### Exercise: Train system

Consider a railroad system with 4 tracks
 (1,2,3,4) and 2 trains. Tracks are free, busy or claimed. Trains need to claim the next track before entering.

# Multiple arcs connecting two nodes

• The number of arcs determines the number of tokens to be consumed/produced.



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