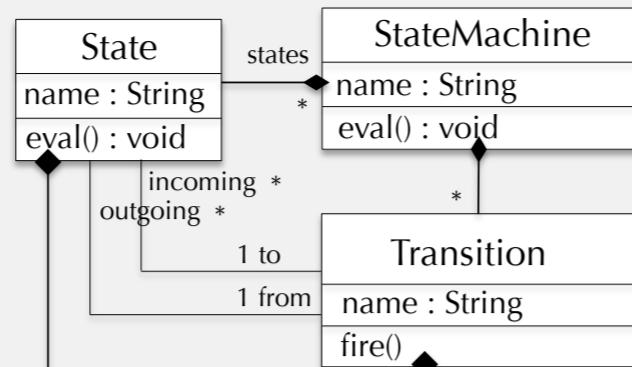
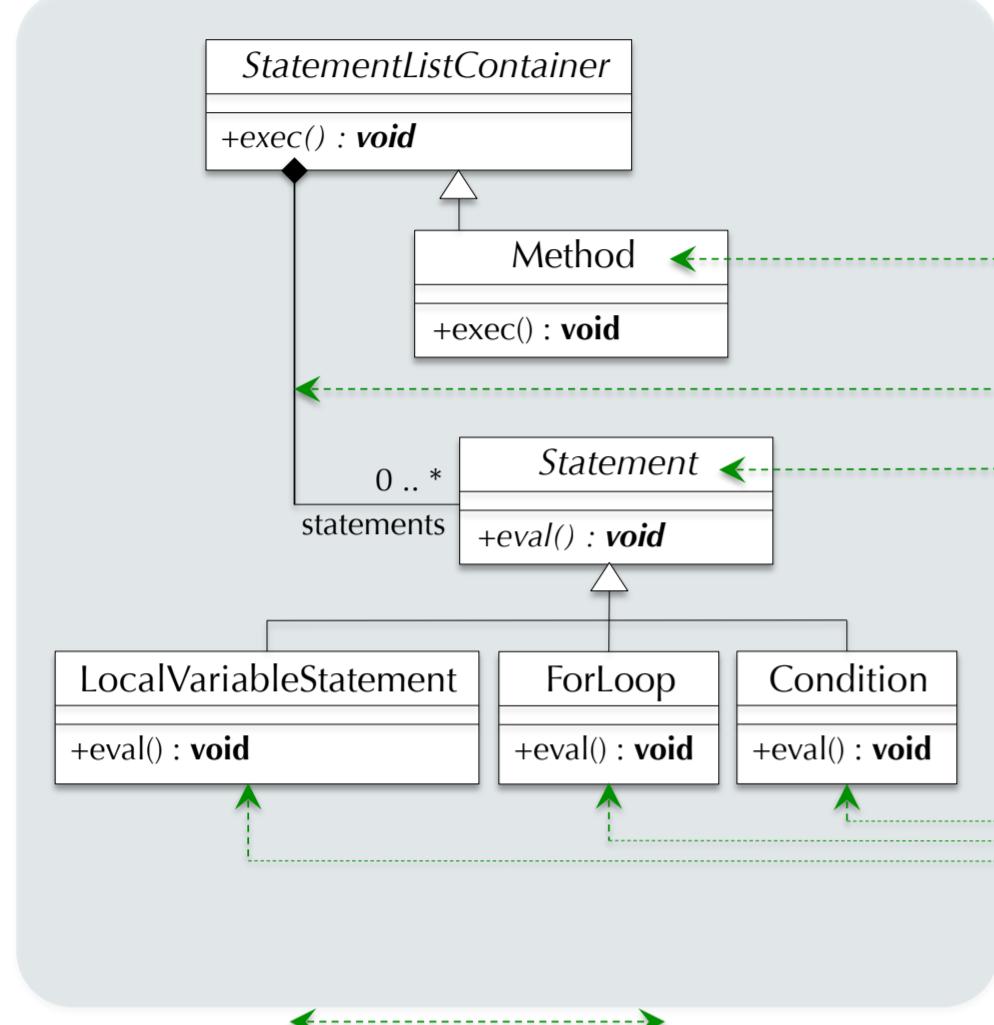


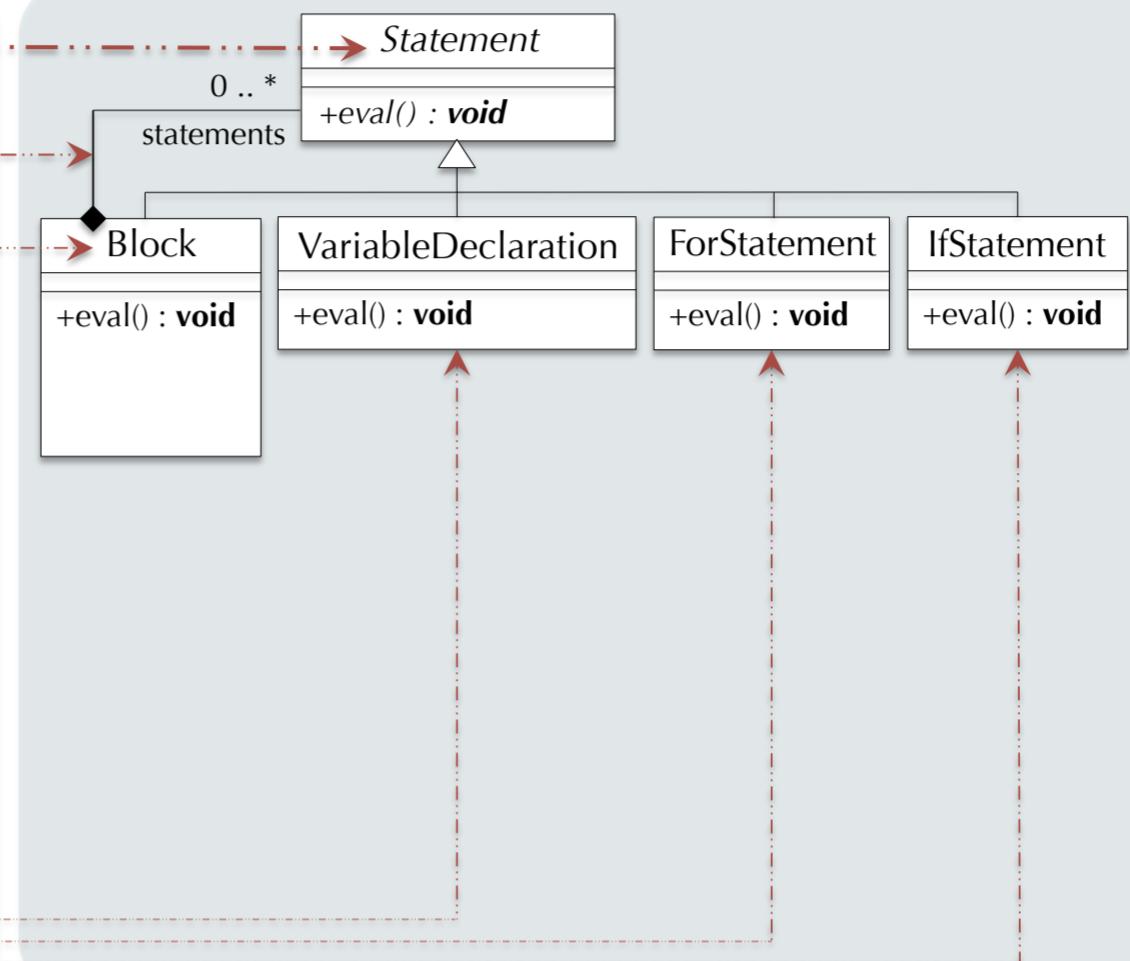
## Finite State Machines



### Provided Interface: Java



### Provided Interface: C#

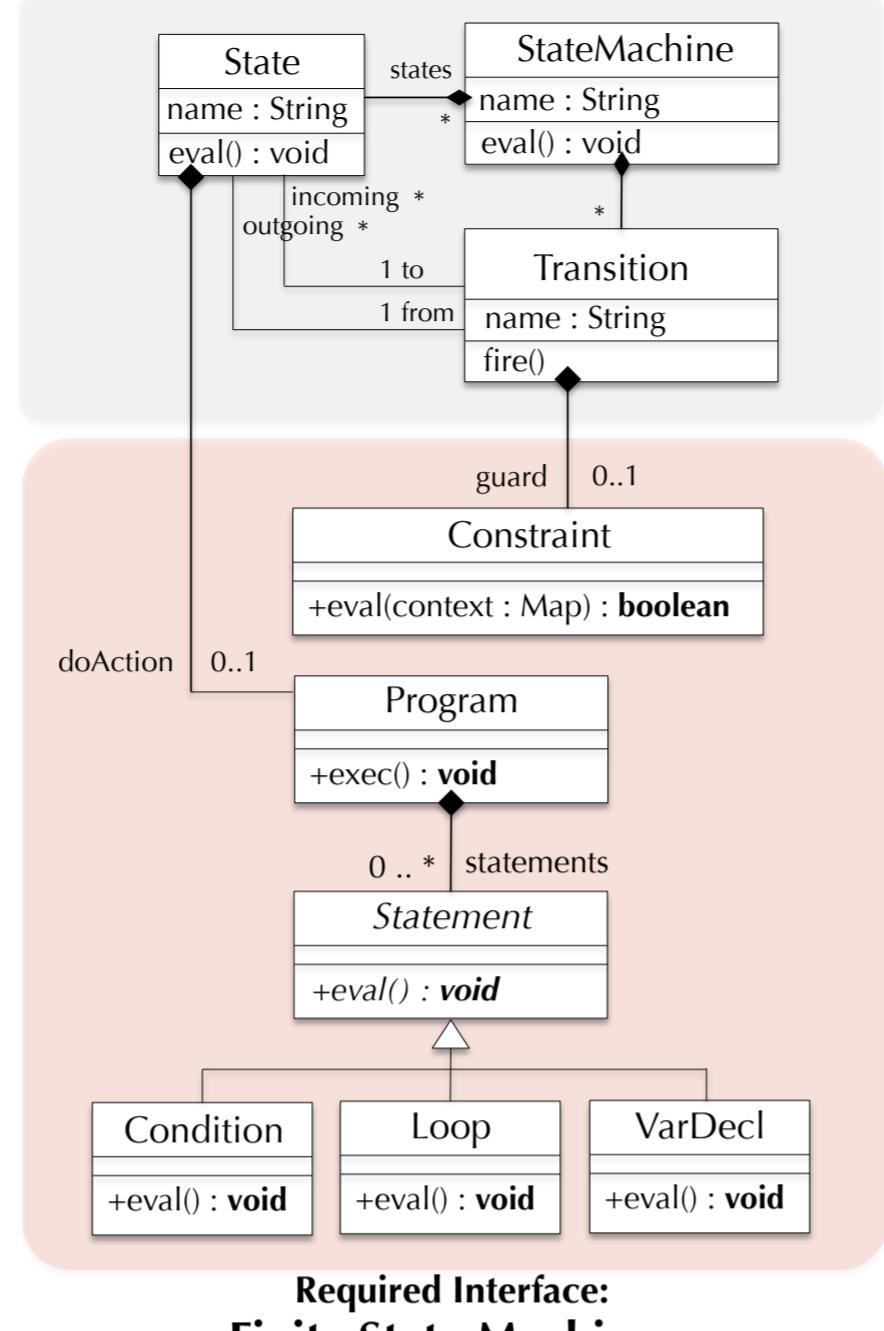


**Binding**  
Java <-> FiniteStateMachines

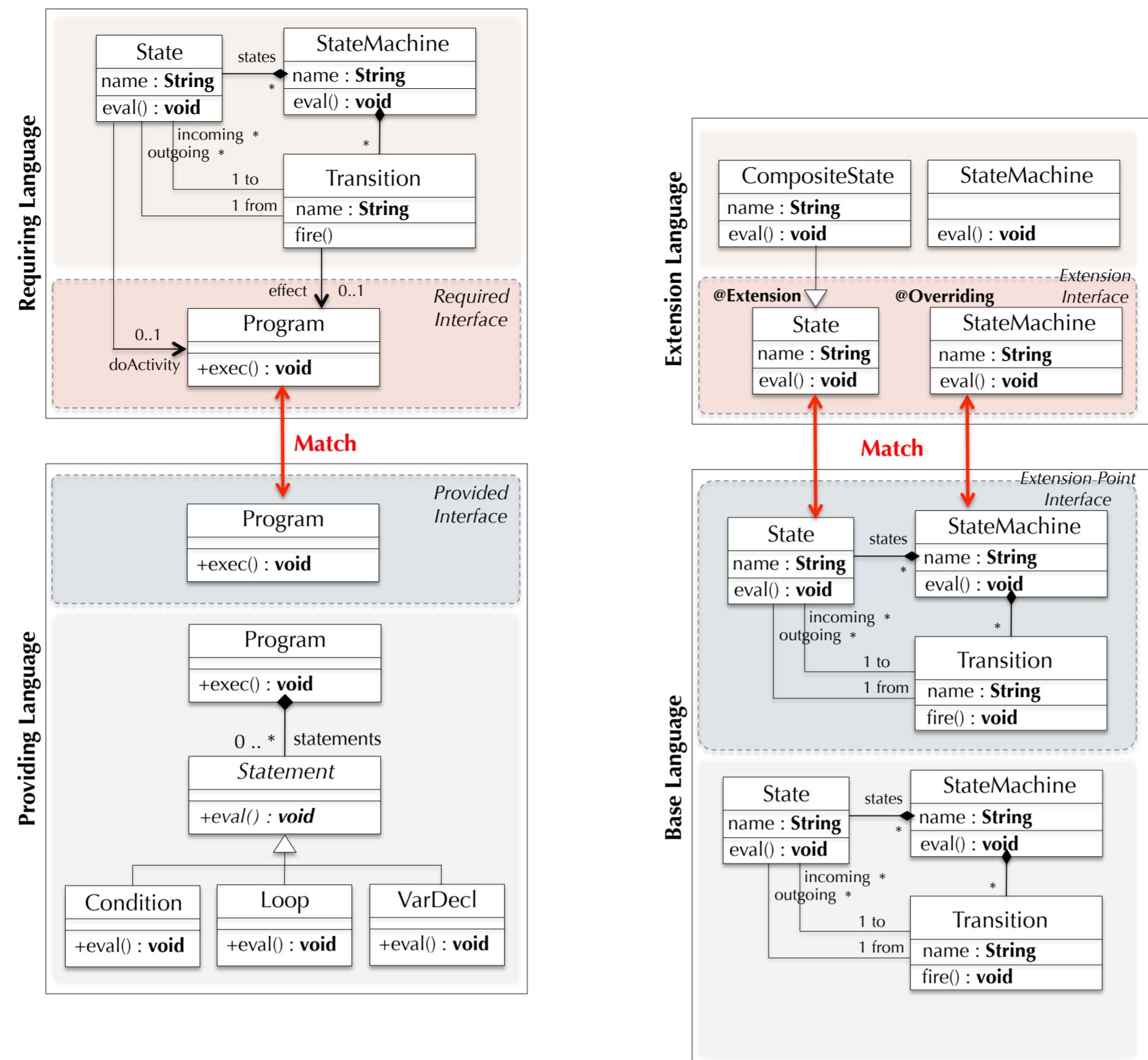
**Required Interface:**  
**Finite State Machines**

**Binding**  
C# <-> FiniteStateMachines

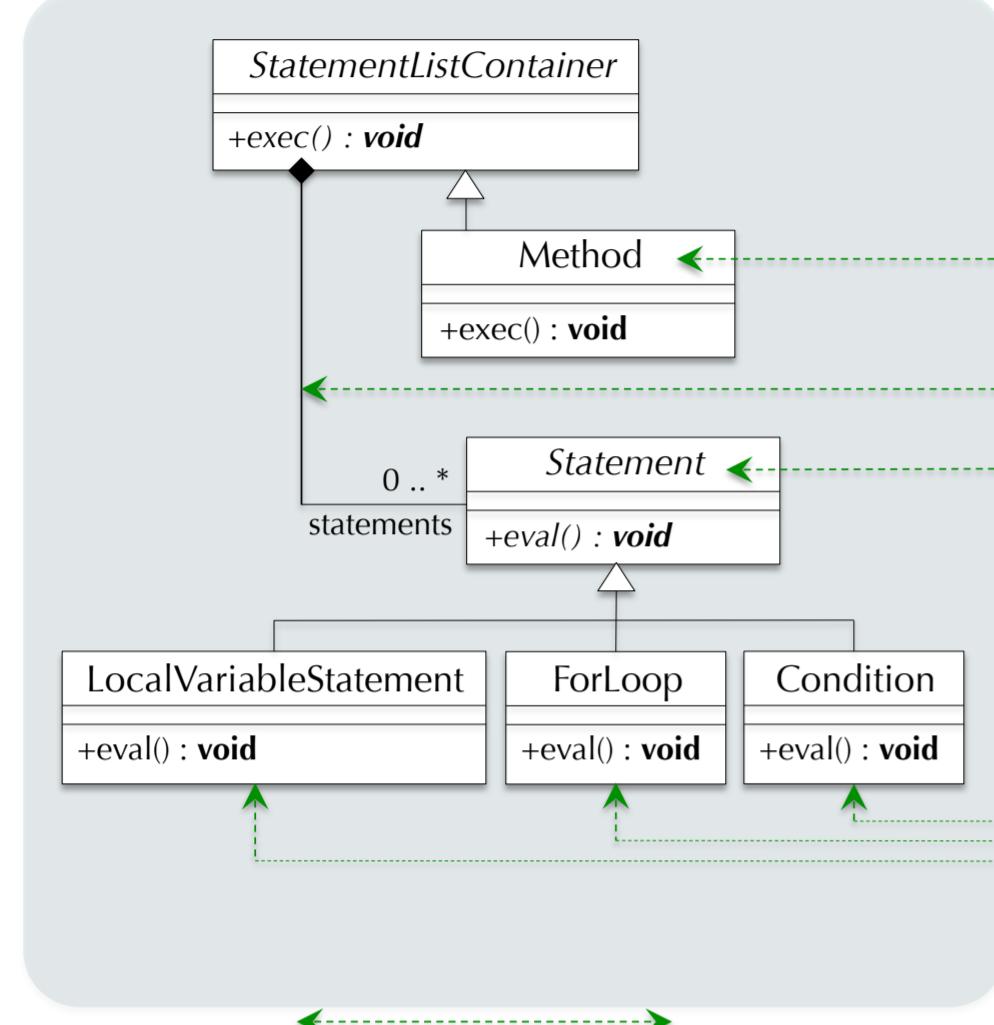
## Finite State Machines



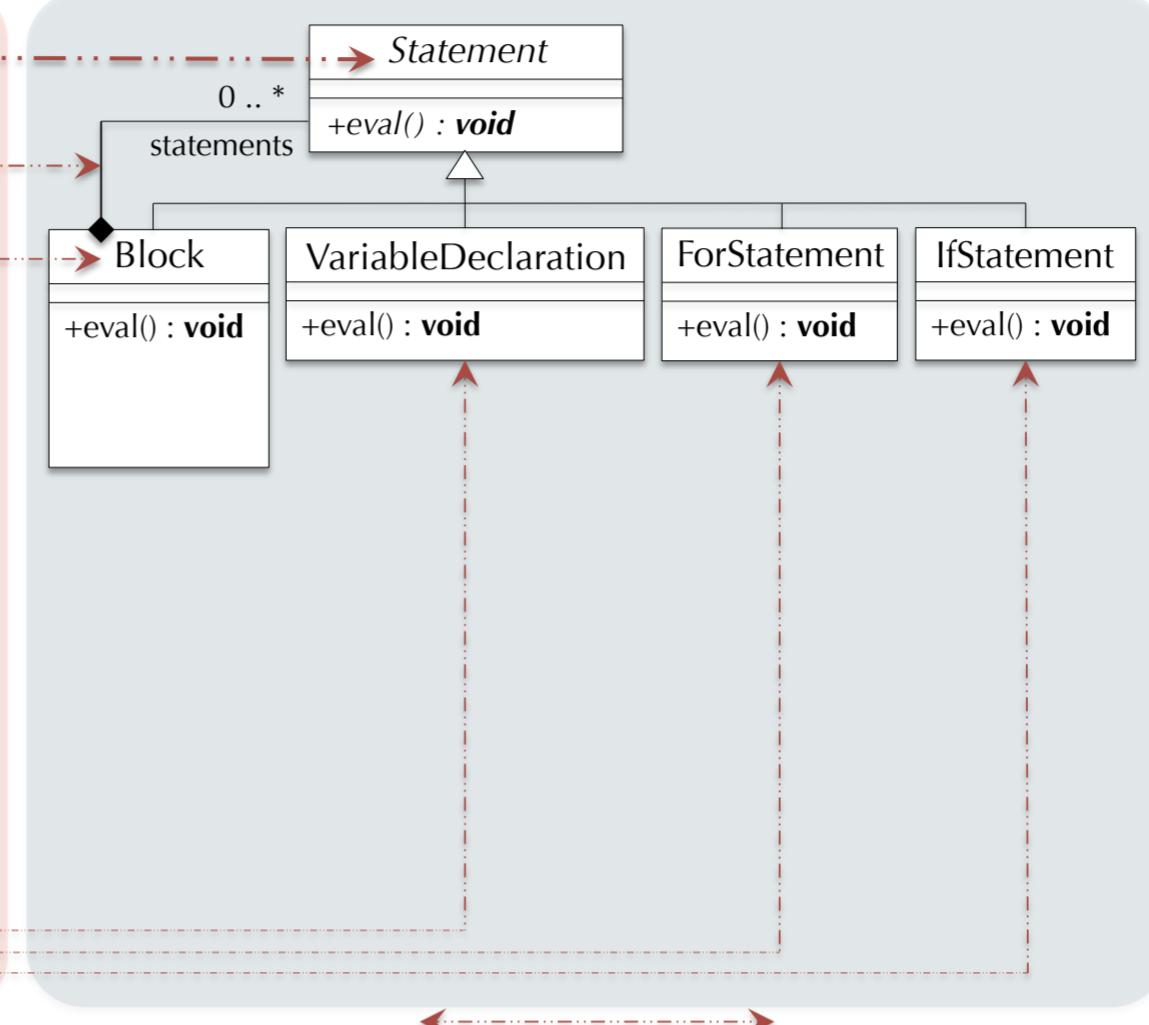
**Required Interface:  
Finite State Machines**



### Provided Interface: Java



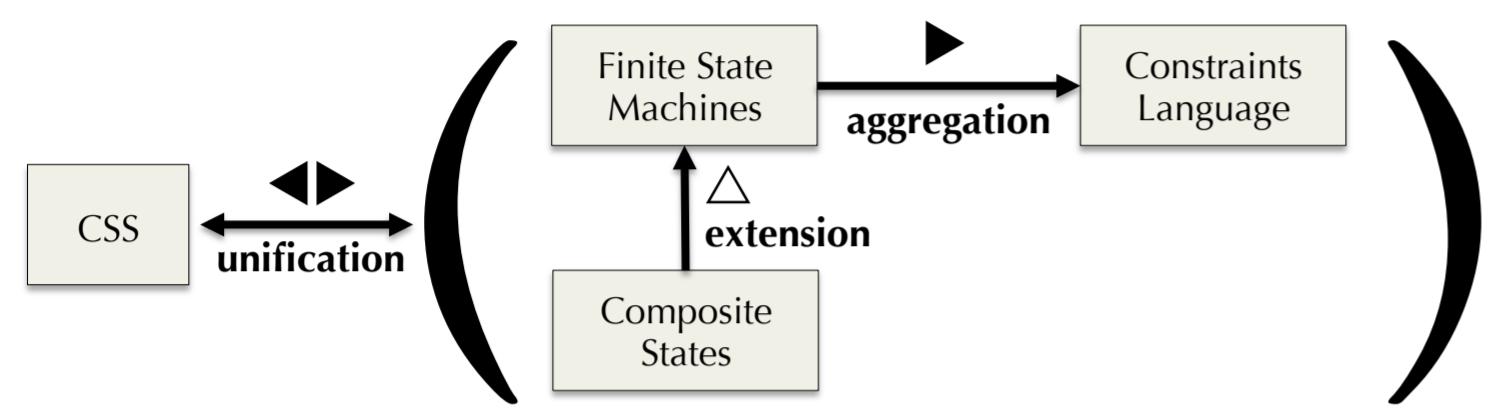
### Provided Interface: C#

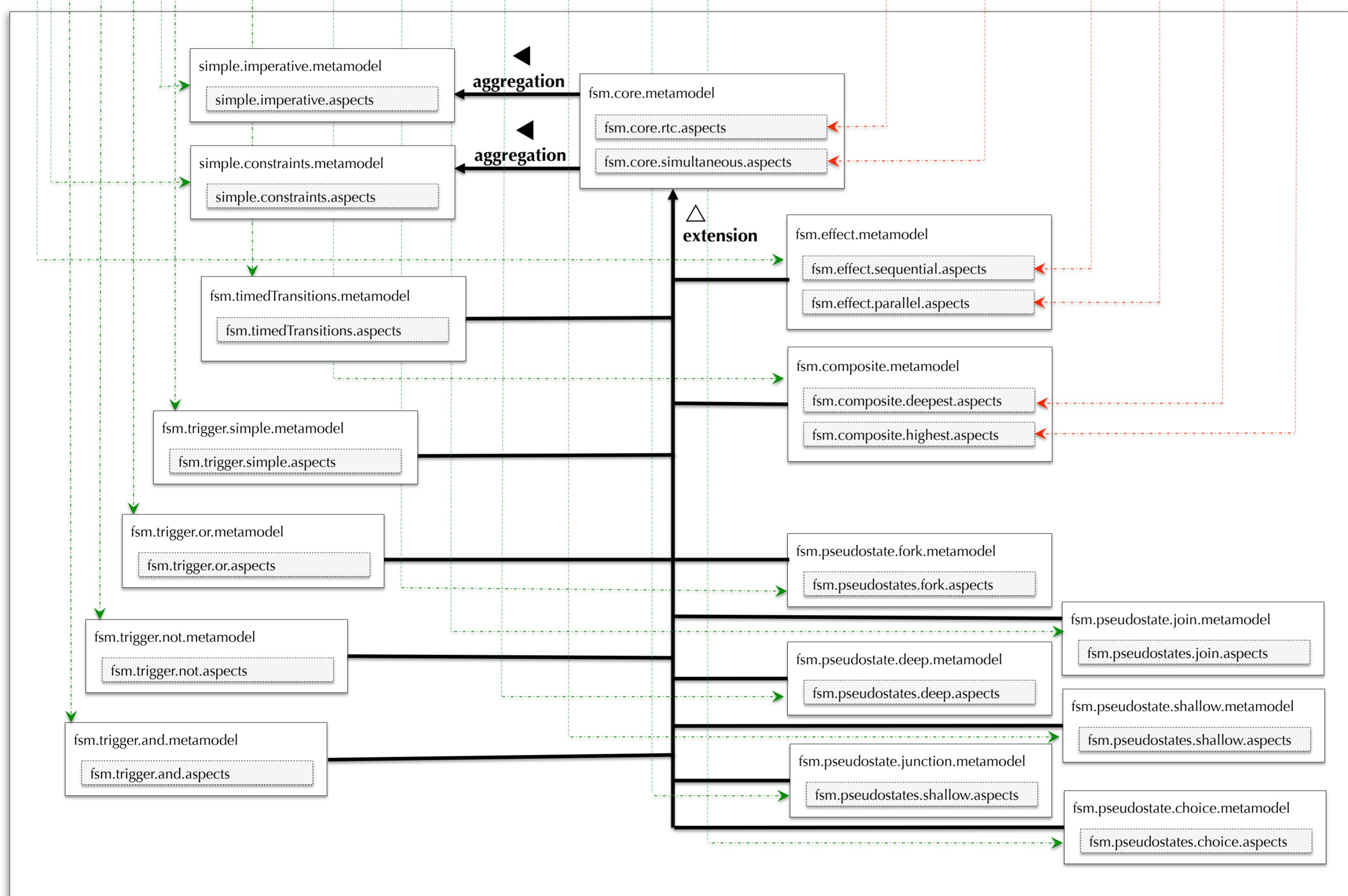
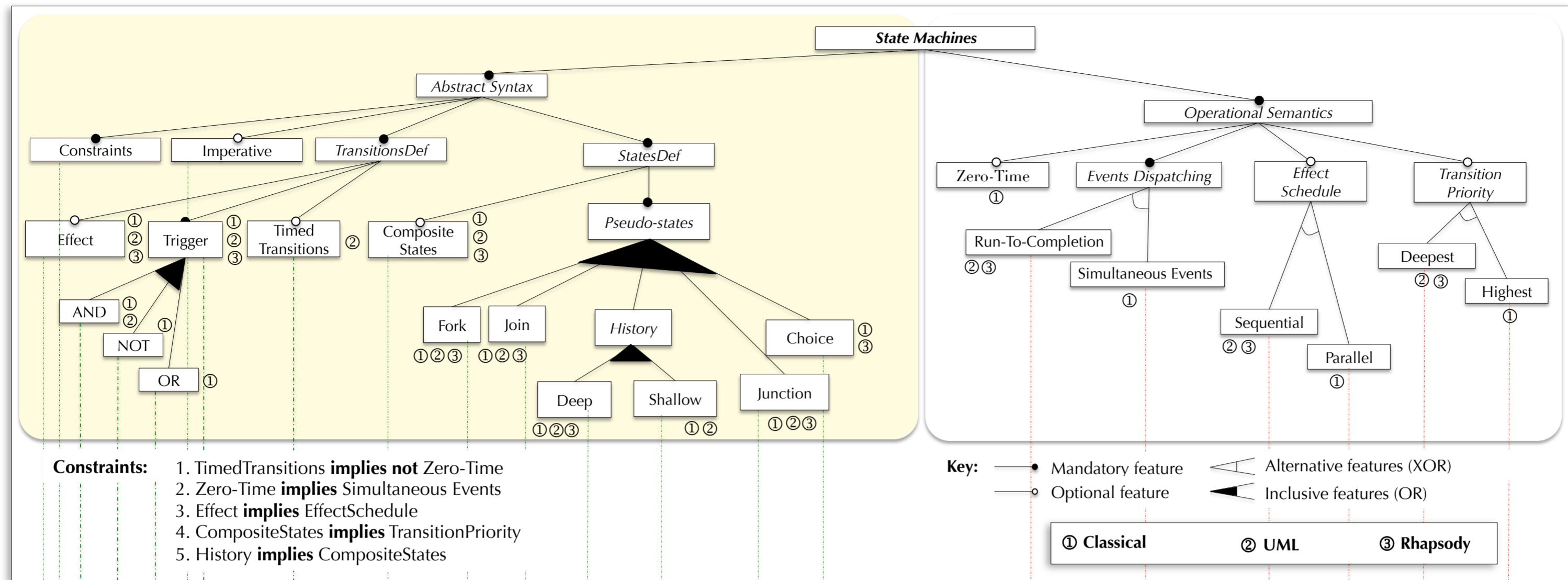


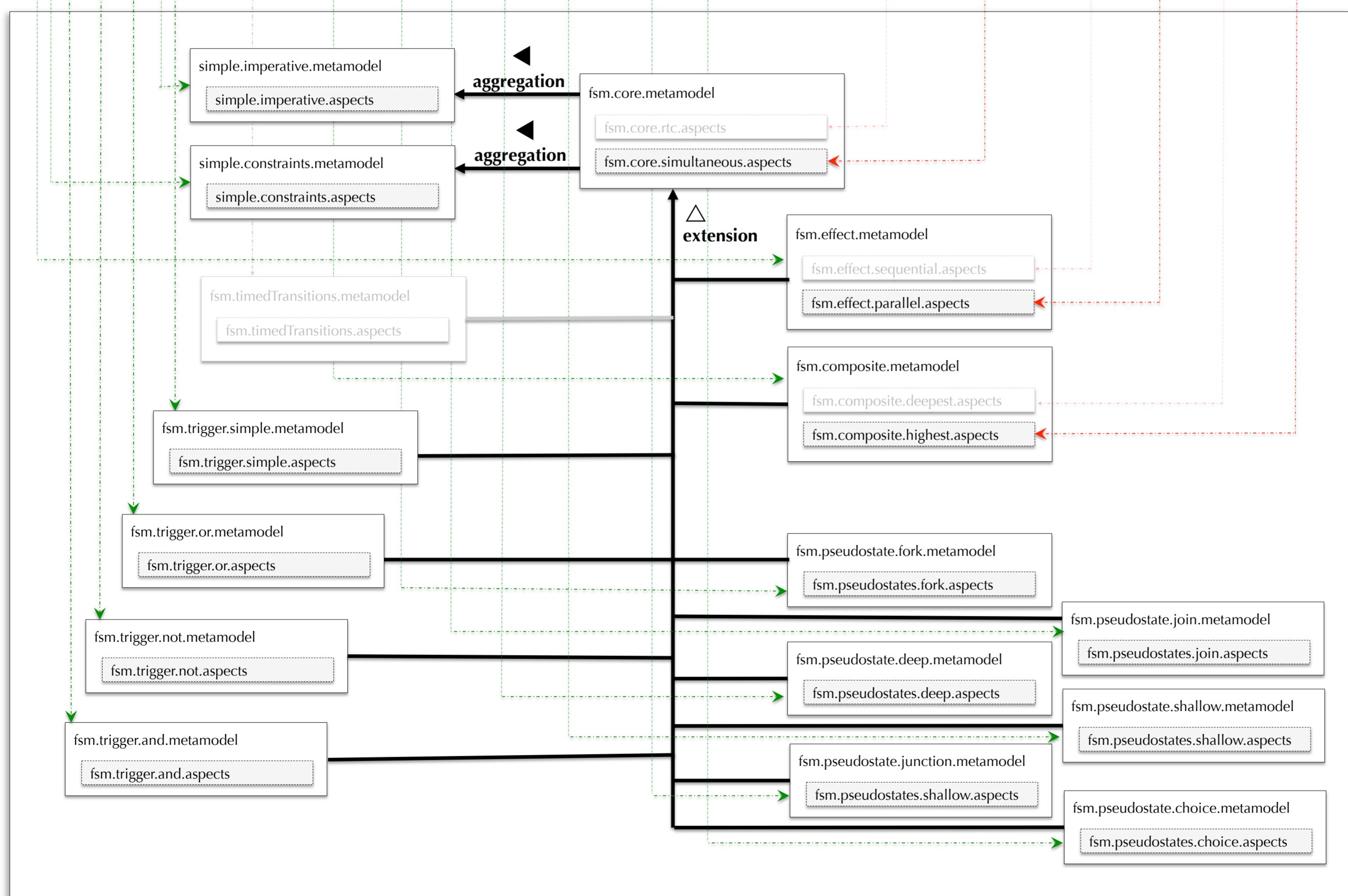
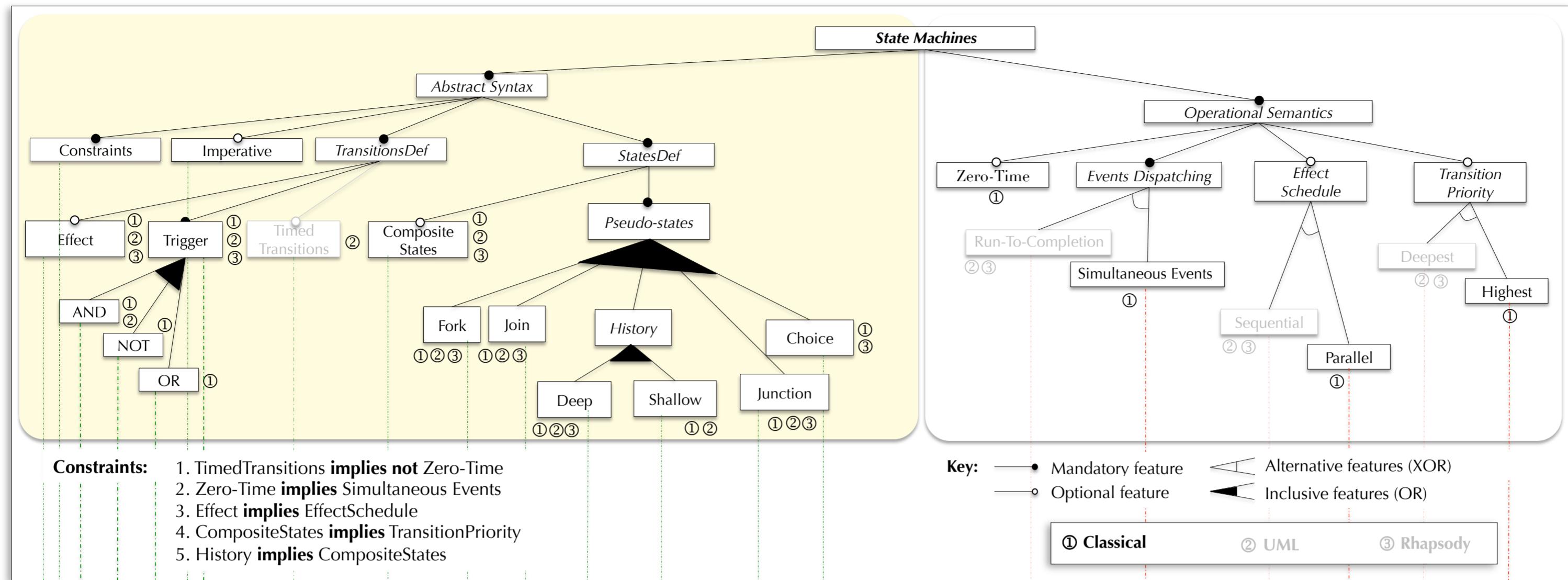
### Required Interface: Finite State Machines

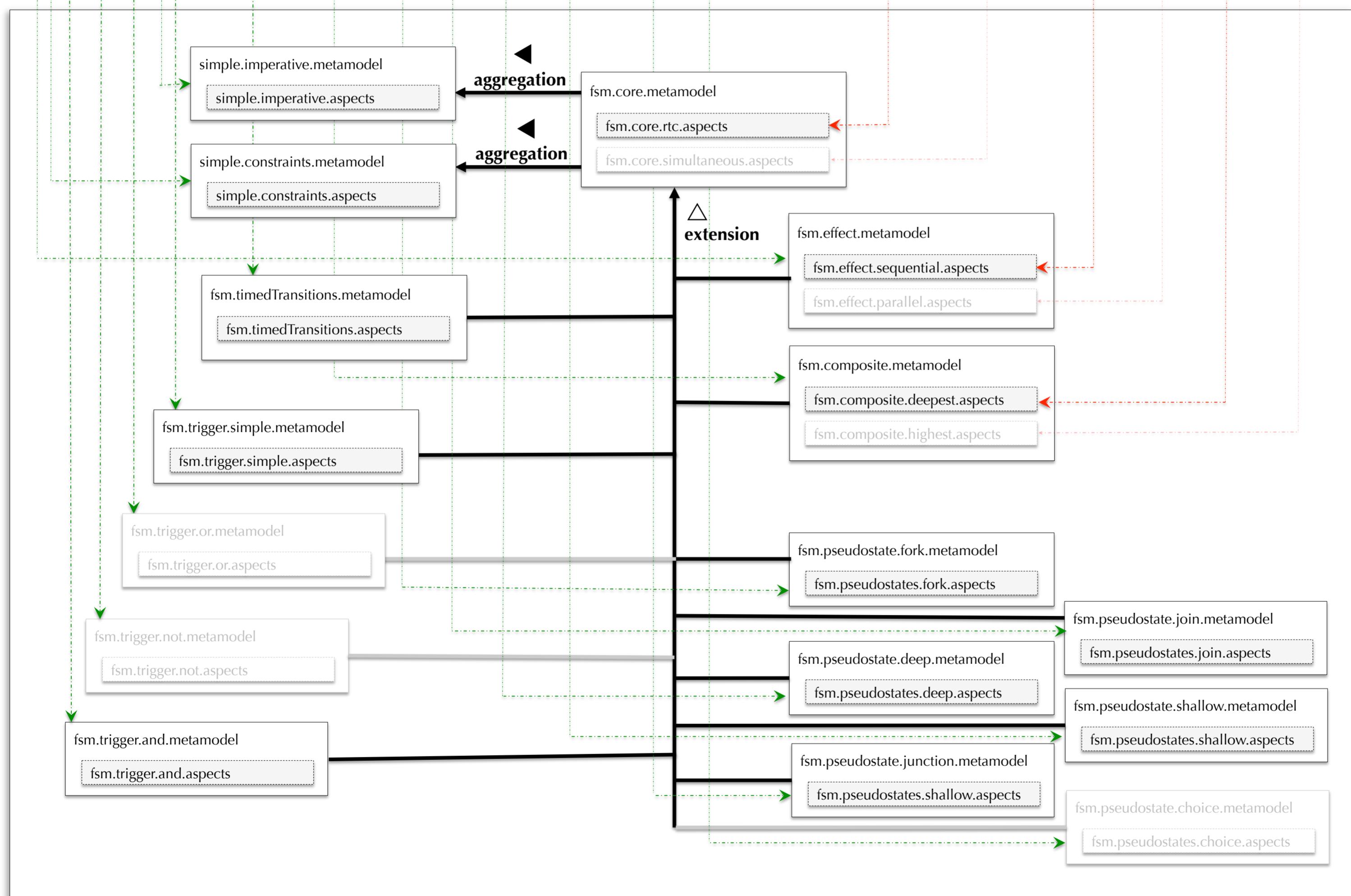
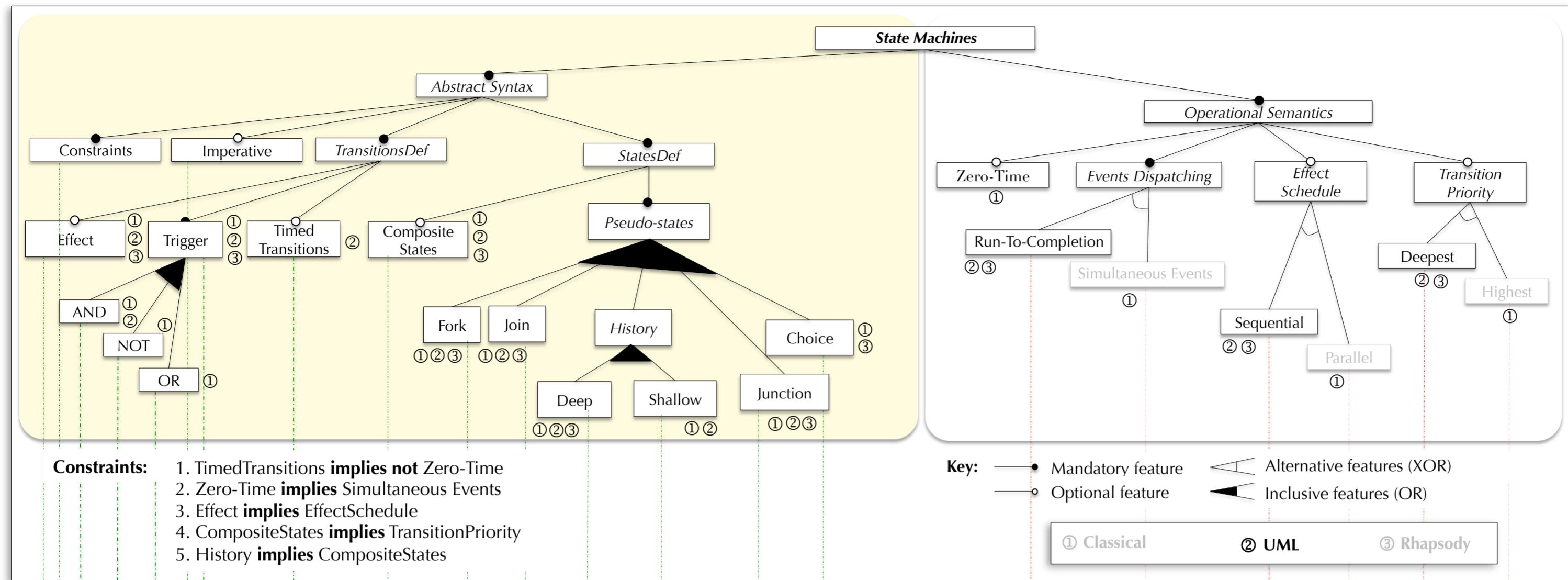
**Binding**  
Java <-> FiniteStateMachines

**Binding**  
C# <-> FiniteStateMachines

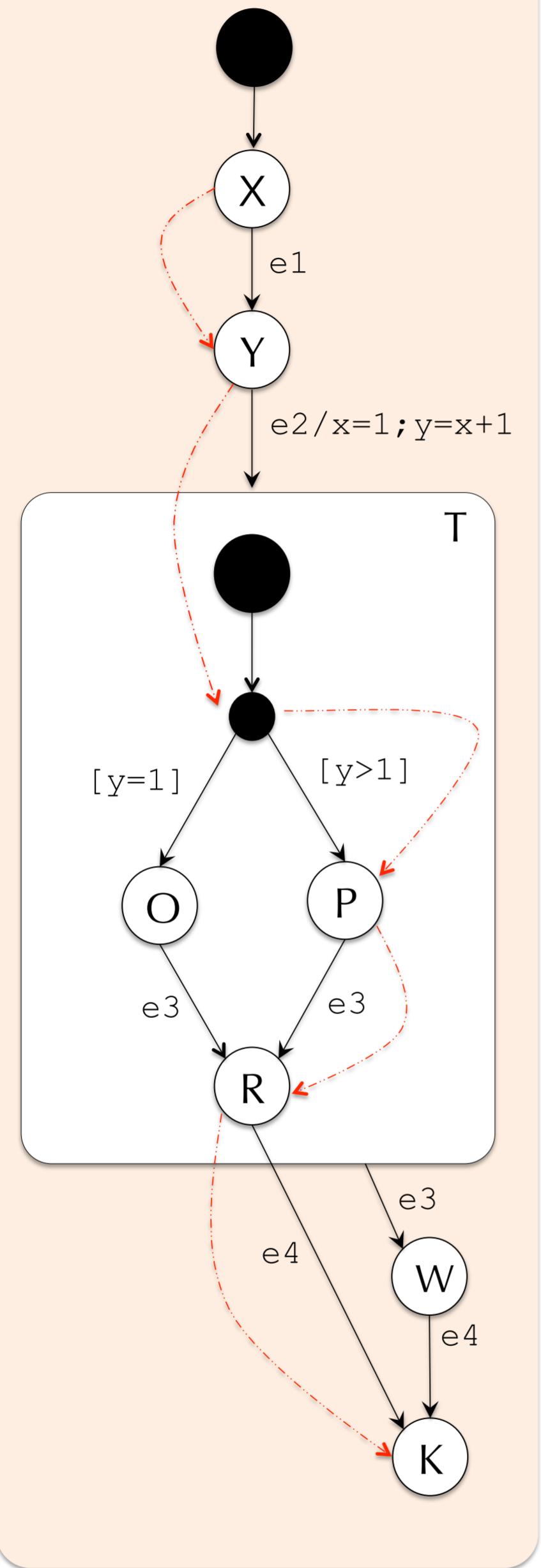




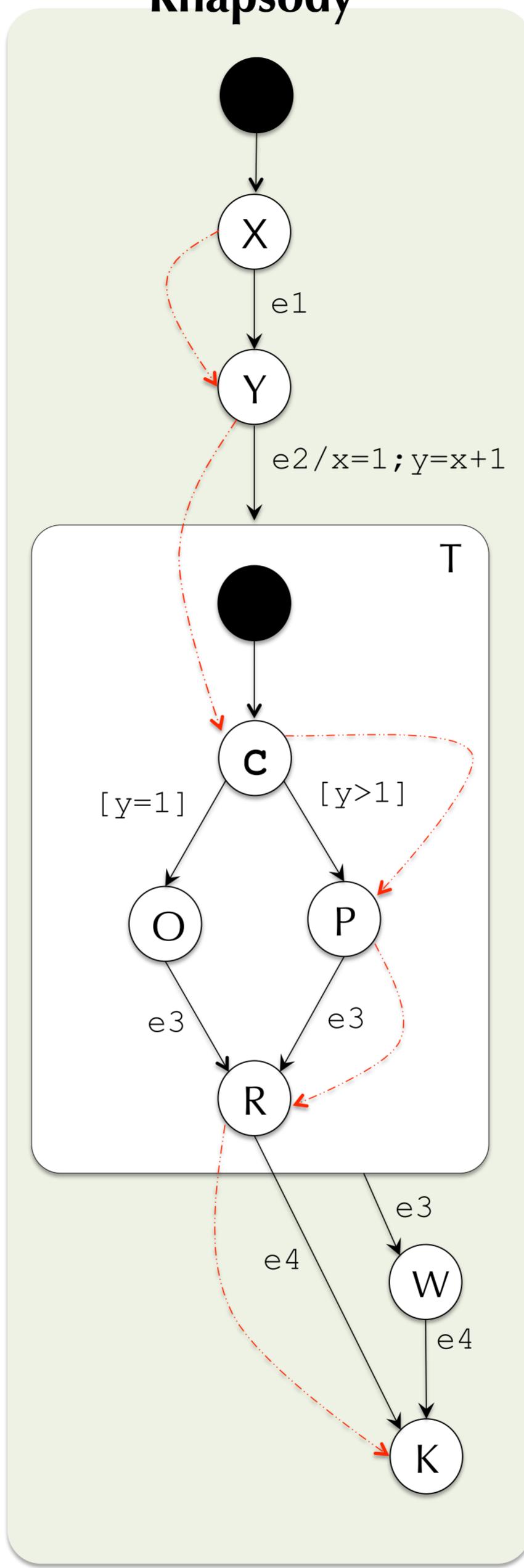




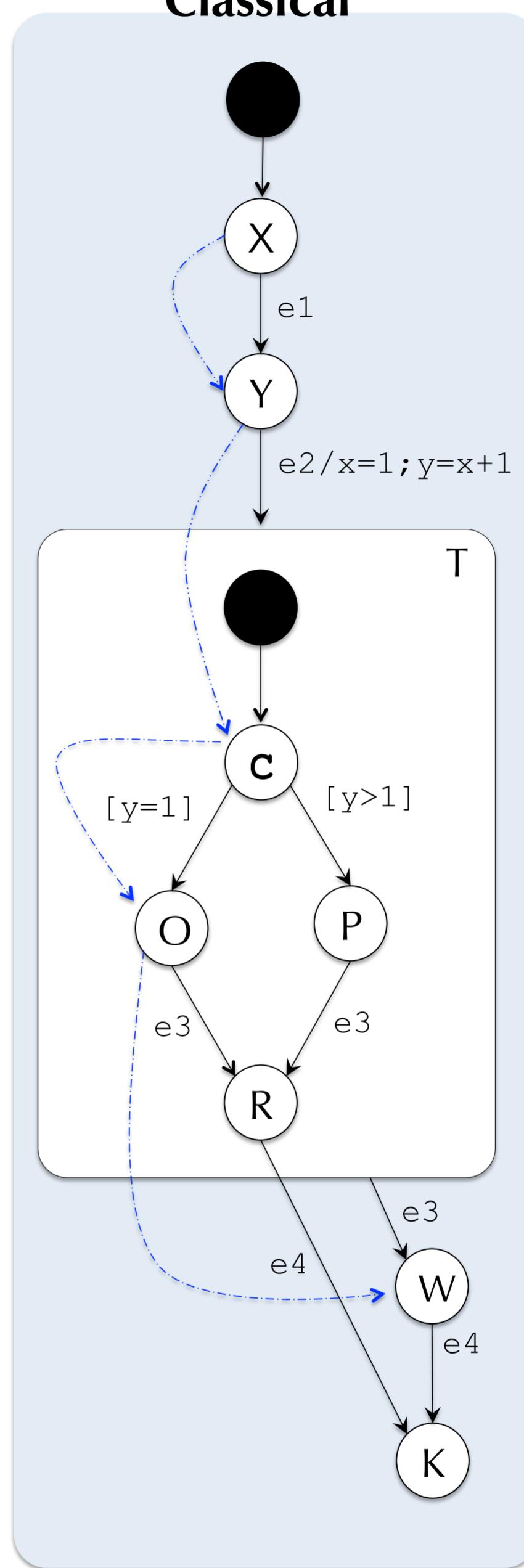
## UML: State Machines

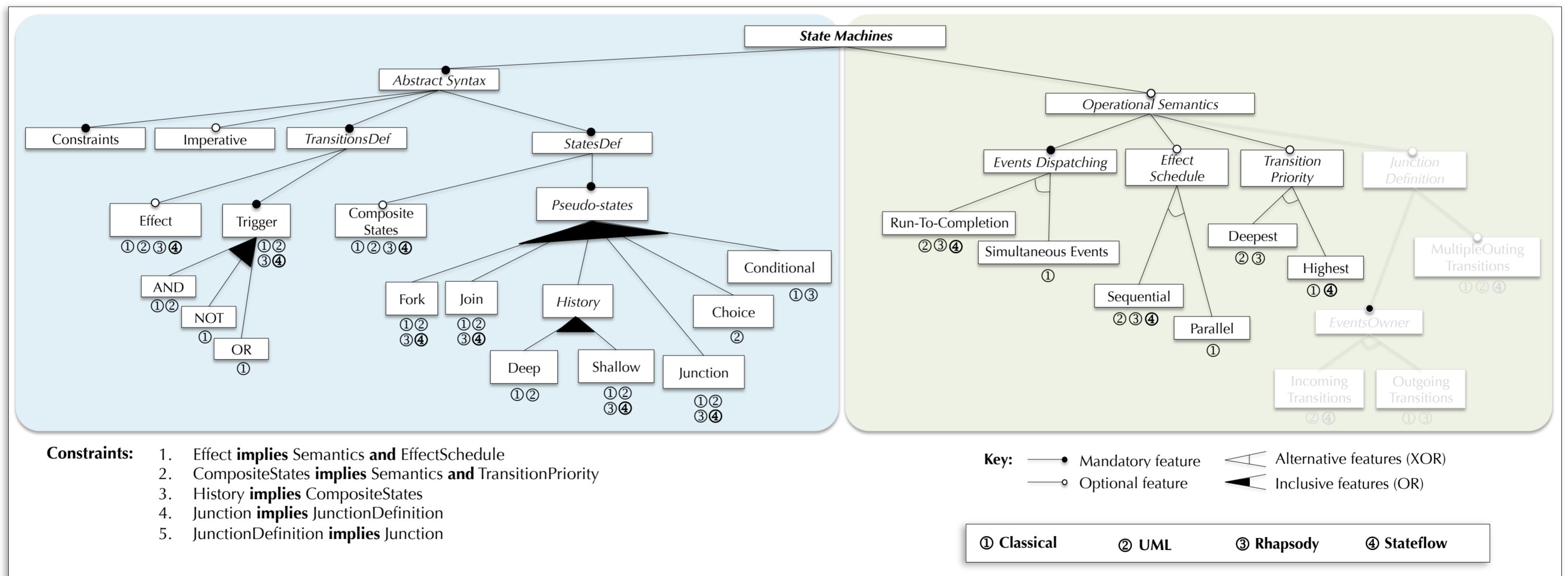
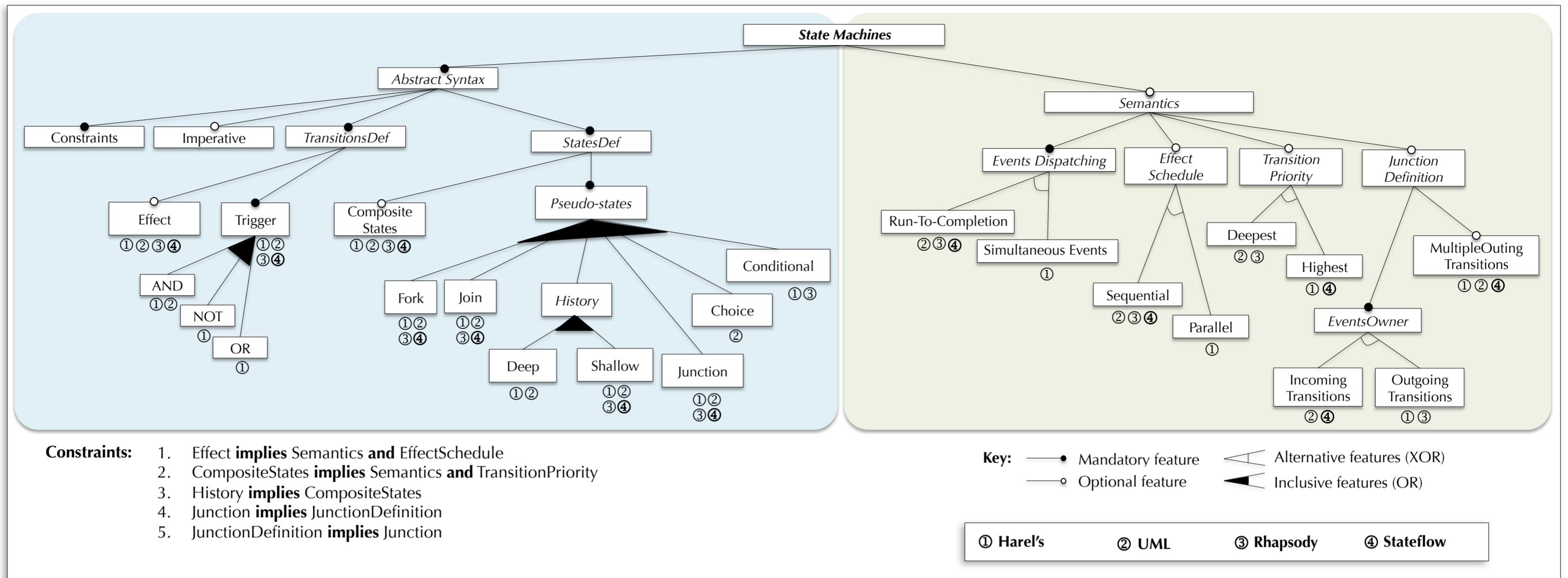


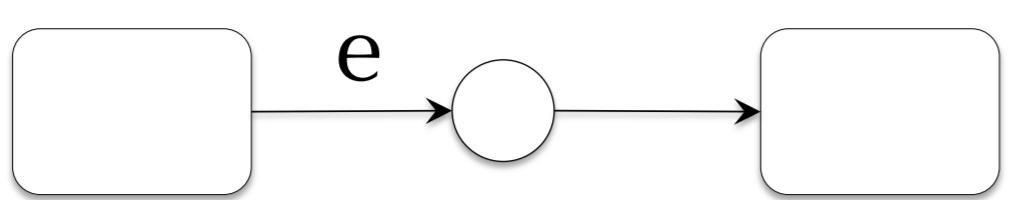
## Rhapsody



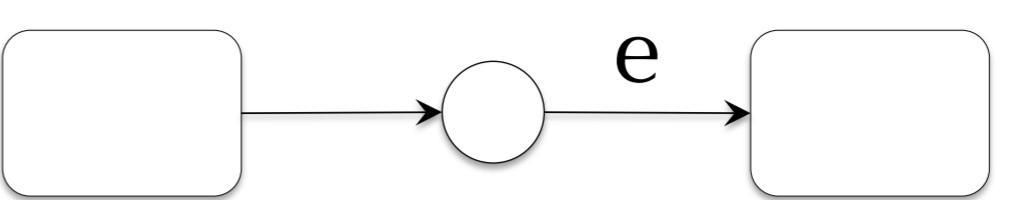
## Classical



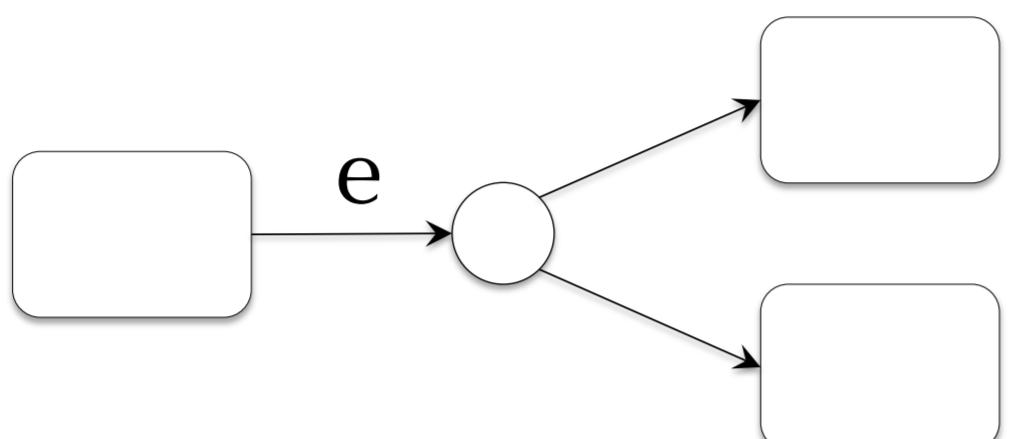




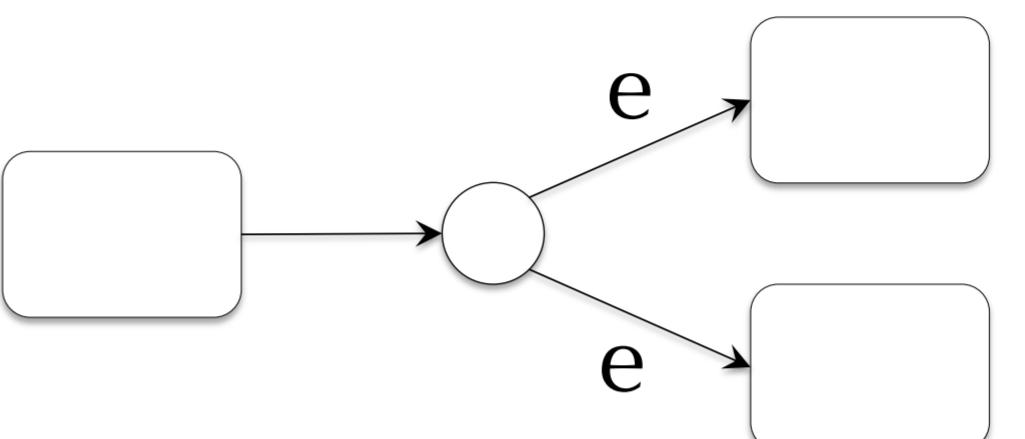
(a)



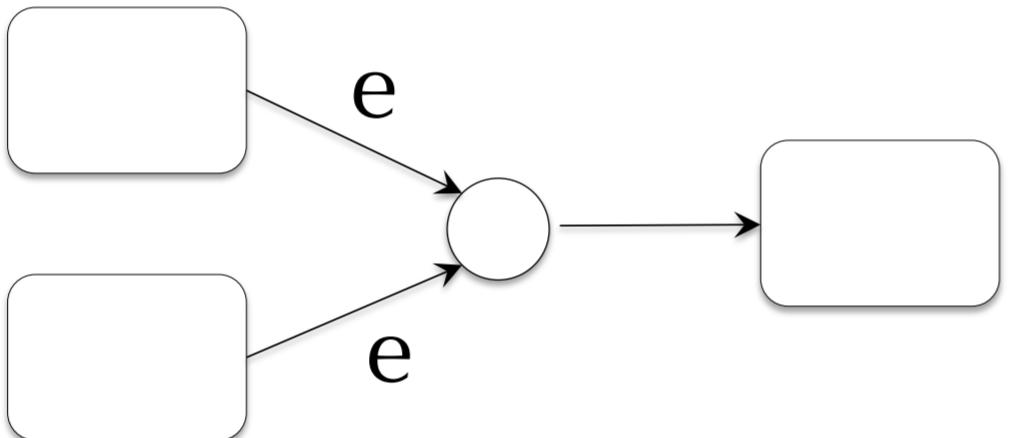
(b)



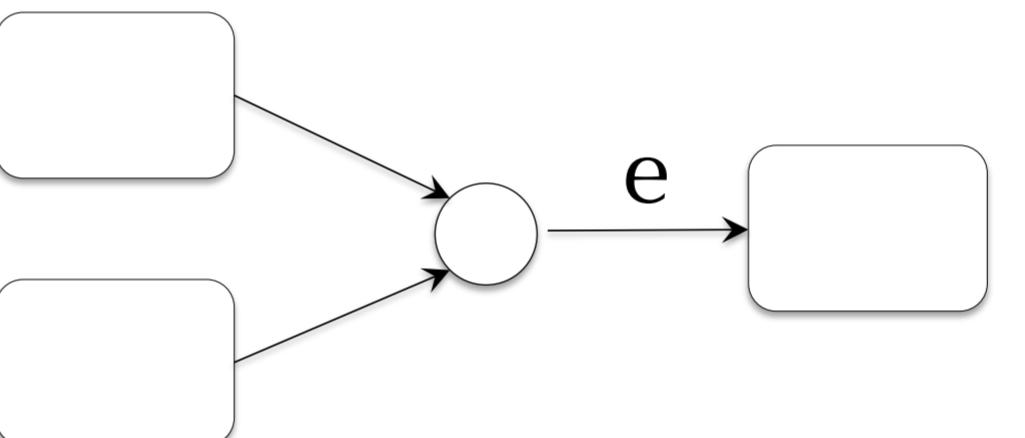
(a)



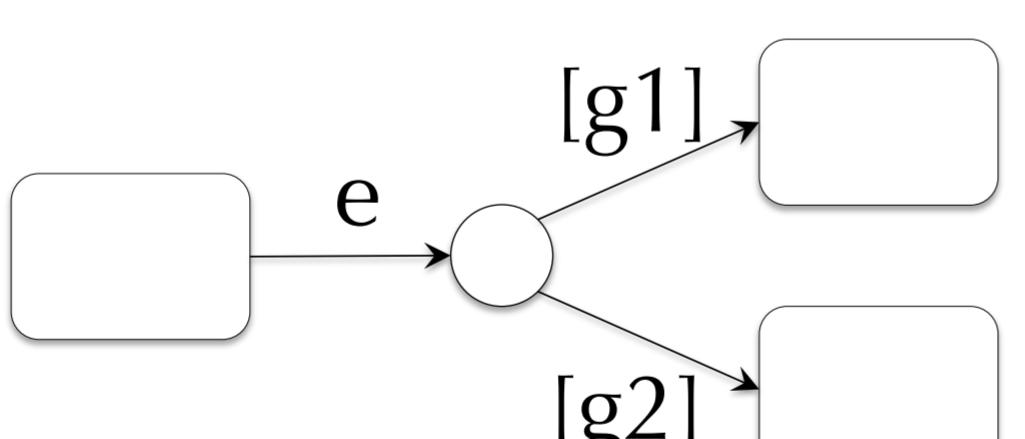
(b)



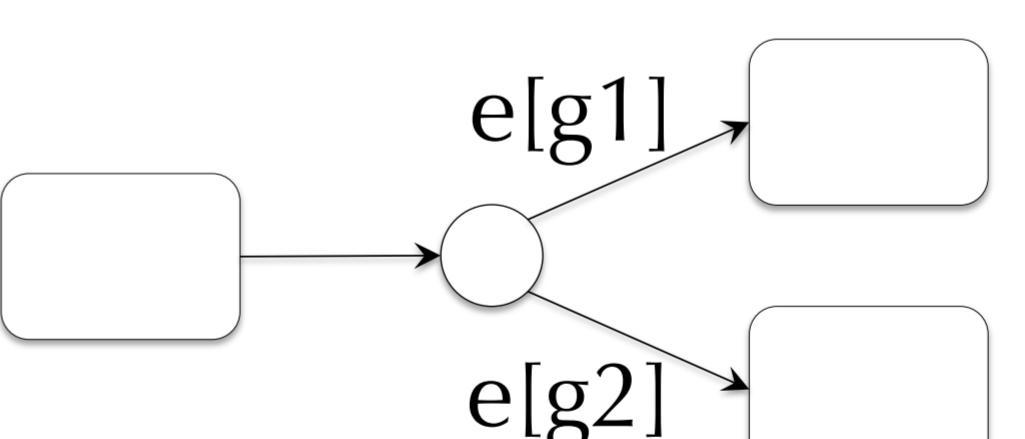
(c)



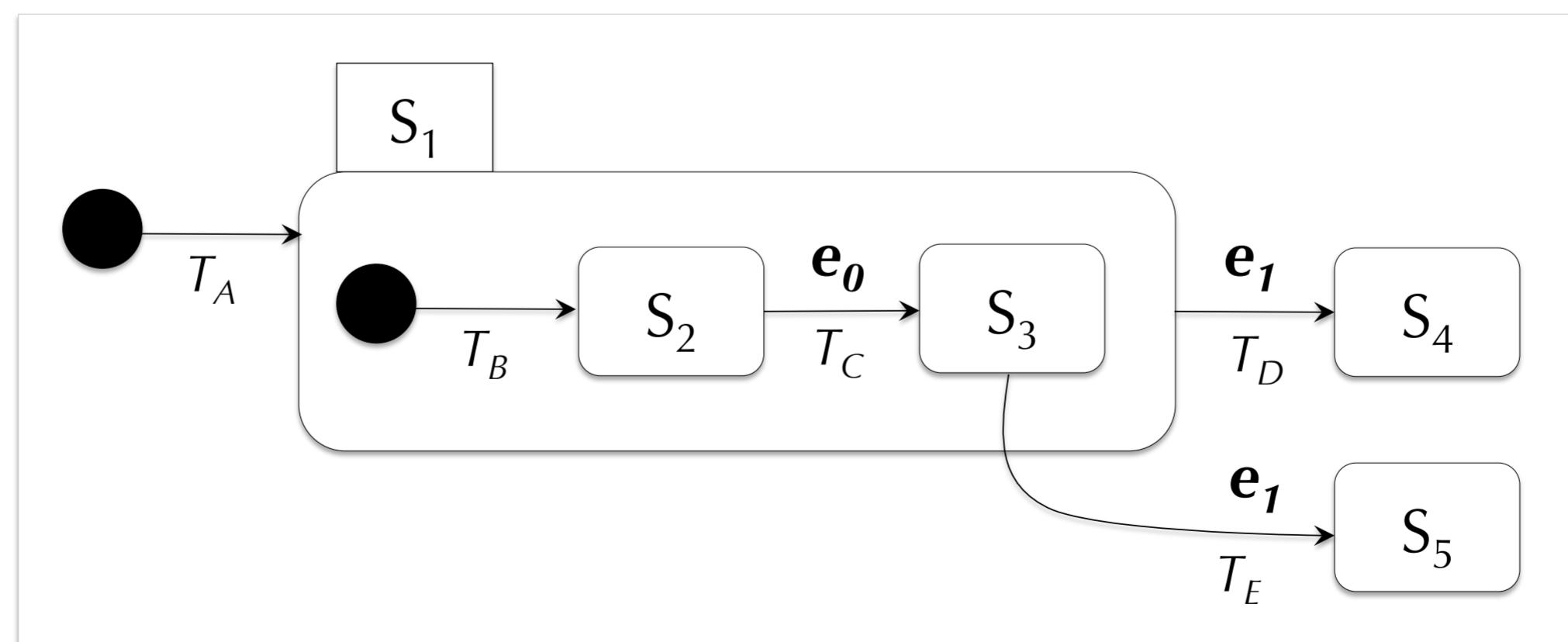
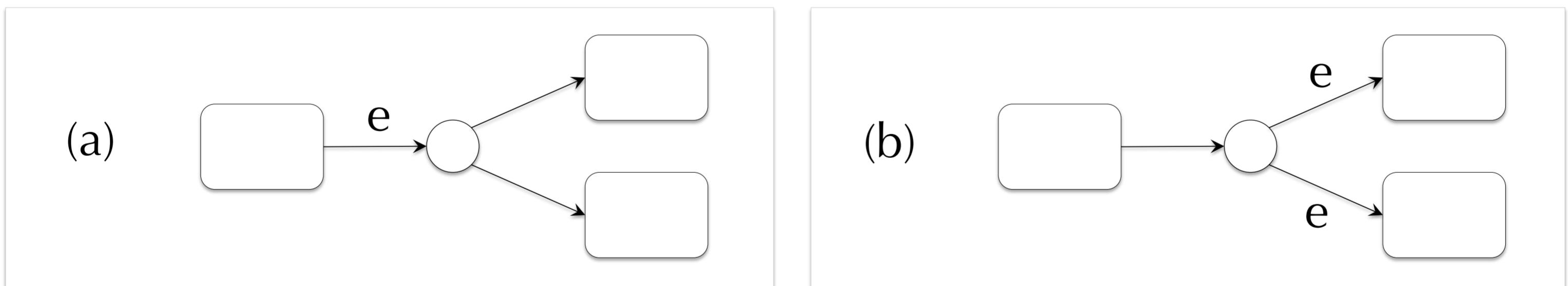
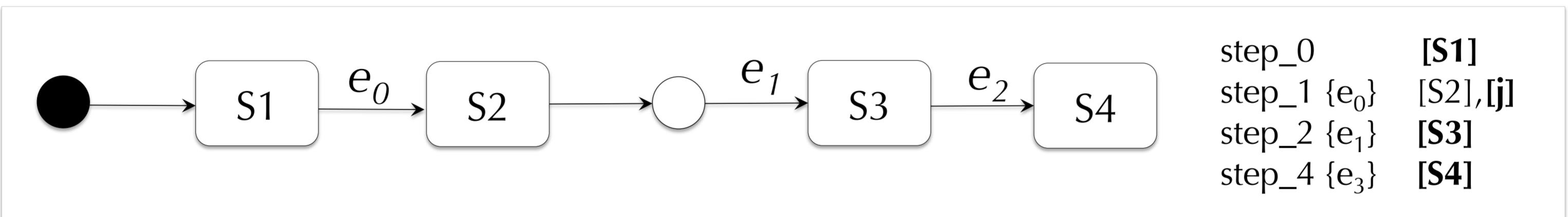
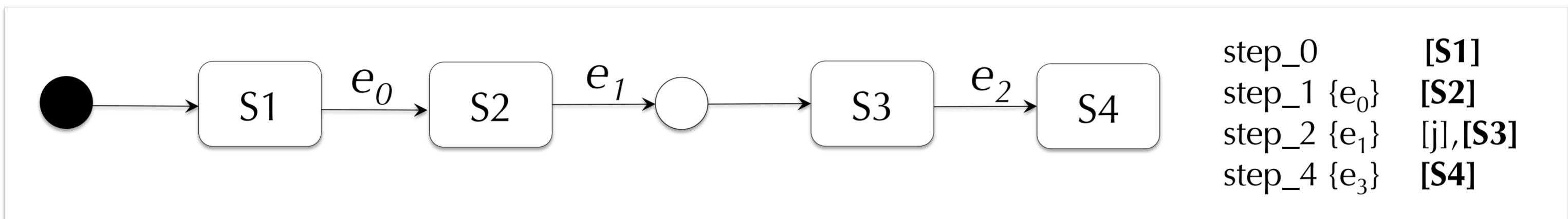
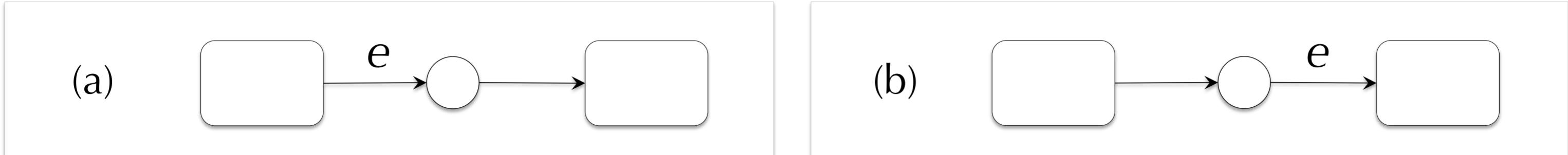
(d)

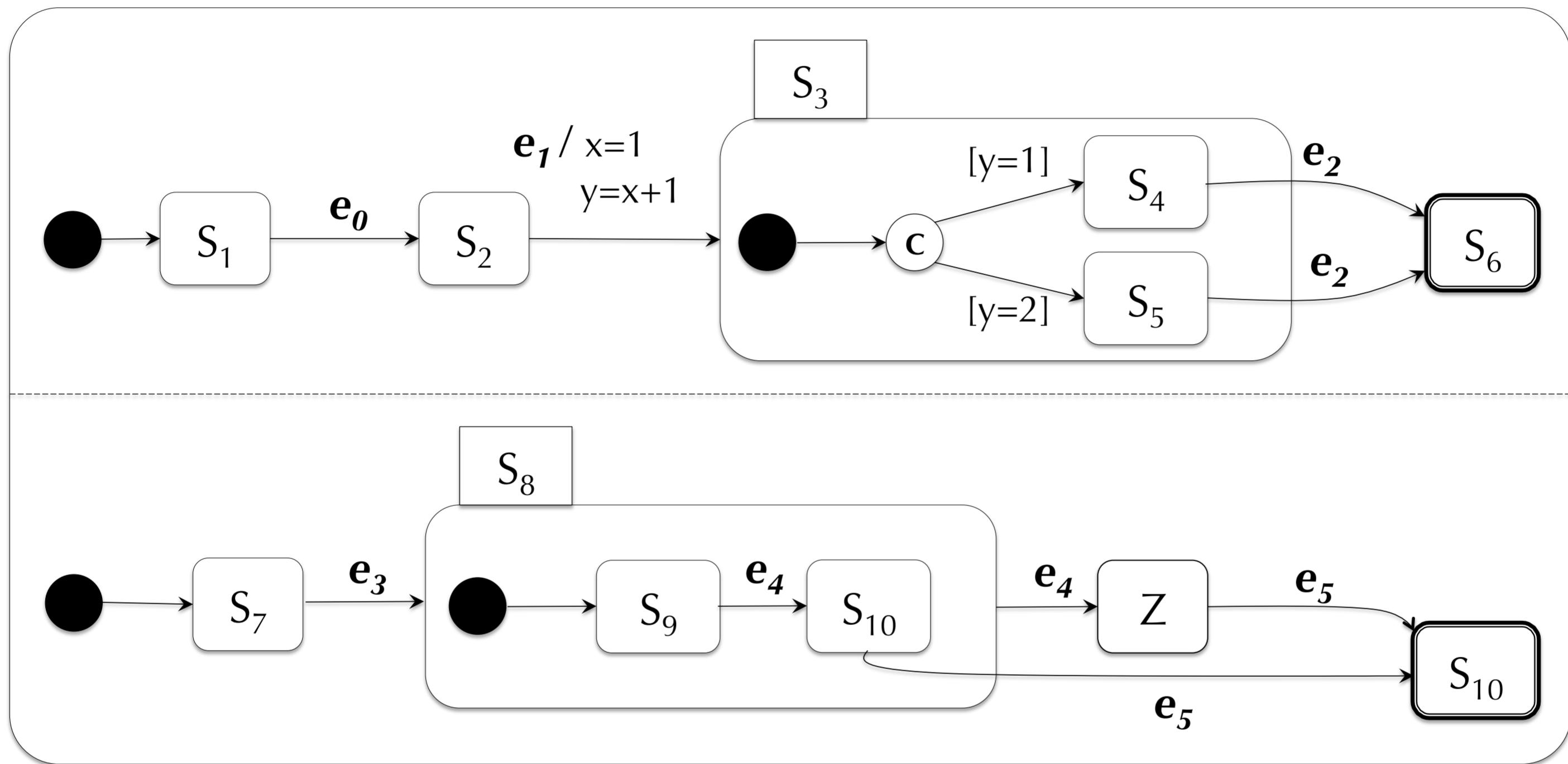
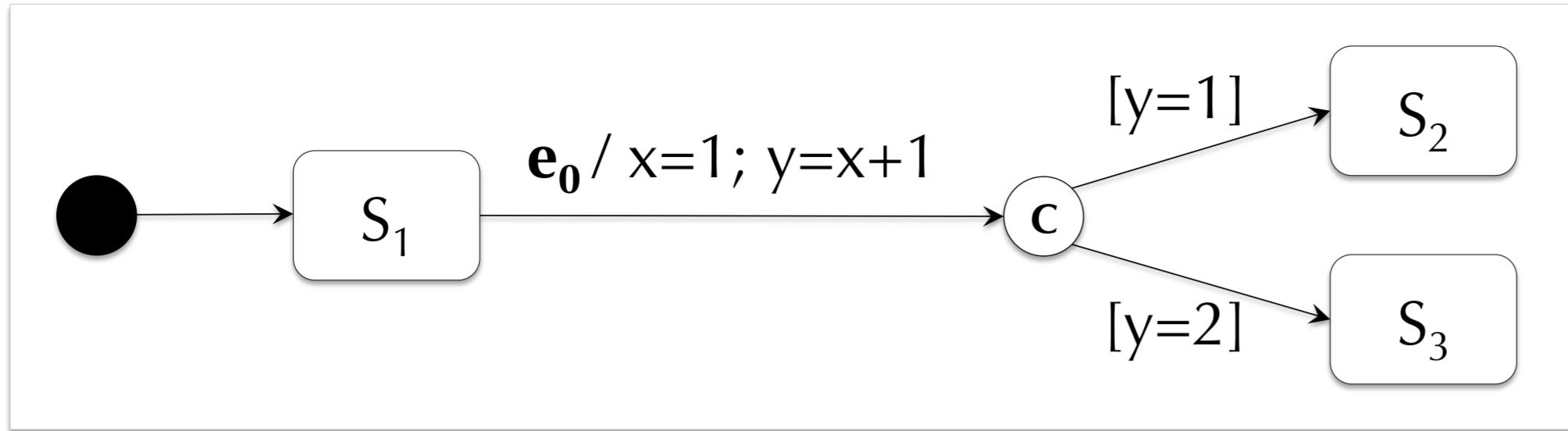


(e)



(f)





## Execution traces

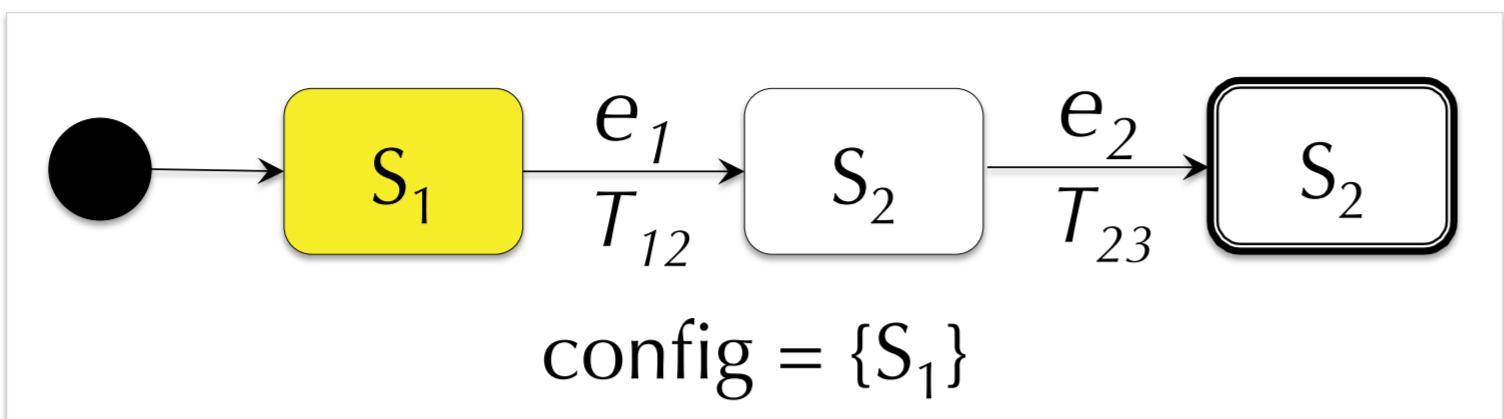
step_0	$[S_1 \ S_2 \ S_{10}]$
step_1 {e <sub>0</sub> , e <sub>4</sub> }	$[S_1 \ S_3 \ S_{11}]$
step_2 {e <sub>1</sub> }	$[S_1 \ S_5 \ S_{11}]$
step_3 {e <sub>2</sub> , e <sub>5</sub> }	$[S_1 \ S_8 \ S_{12}]$
step_4 {e <sub>3</sub> }	$[S_1 \ S_9 \ S_{12}]$

step_0	$[S_1 \ S_2 \ S_{10}]$
step_1 {e <sub>0</sub> , e <sub>4</sub> }	$[S_1 \ S_3 \ S_{10}]$
step_2 {e <sub>1</sub> }	$[S_1 \ S_6 \ S_{11}]$
step_3 {e <sub>2</sub> , e <sub>5</sub> }	$[S_1 \ S_7 \ S_{11}]$
step_4 {e <sub>3</sub> }	$[S_1 \ S_9 \ S_{12}]$

step_0	$[S_1 \ S_2 \ S_{10}]$
step_1 {e <sub>0</sub> , e <sub>4</sub> }	$[S_1 \ S_3 \ S_{10}]$
step_2 {e <sub>1</sub> }	$[S_1 \ S_6 \ S_{11}]$
step_3 {e <sub>2</sub> , e <sub>5</sub> }	$[S_1 \ S_7 \ S_{11}]$
step_4 {e <sub>3</sub> }	$[S_1 \ S_9 \ S_{12}]$

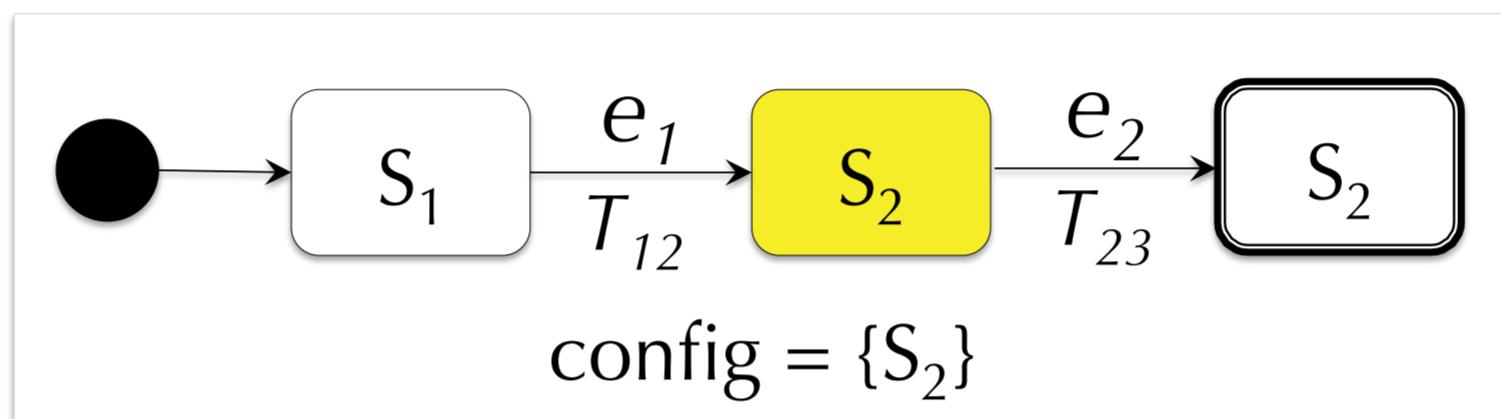
step_0	$[S_1 \ S_2 \ S_{10}]$
step_1 {e <sub>0</sub> , e <sub>4</sub> }	$[S_1 \ S_3 \ S_{10}]$
step_2 {e <sub>1</sub> }	$[S_1 \ S_6 \ S_{11}]$
step_3 {e <sub>2</sub> , e <sub>5</sub> }	$[S_1 \ S_8 \ S_{11}]$
step_4 {e <sub>3</sub> }	$[S_1 \ S_9 \ S_{12}]$

**Step 0**  
**(Initialization)**



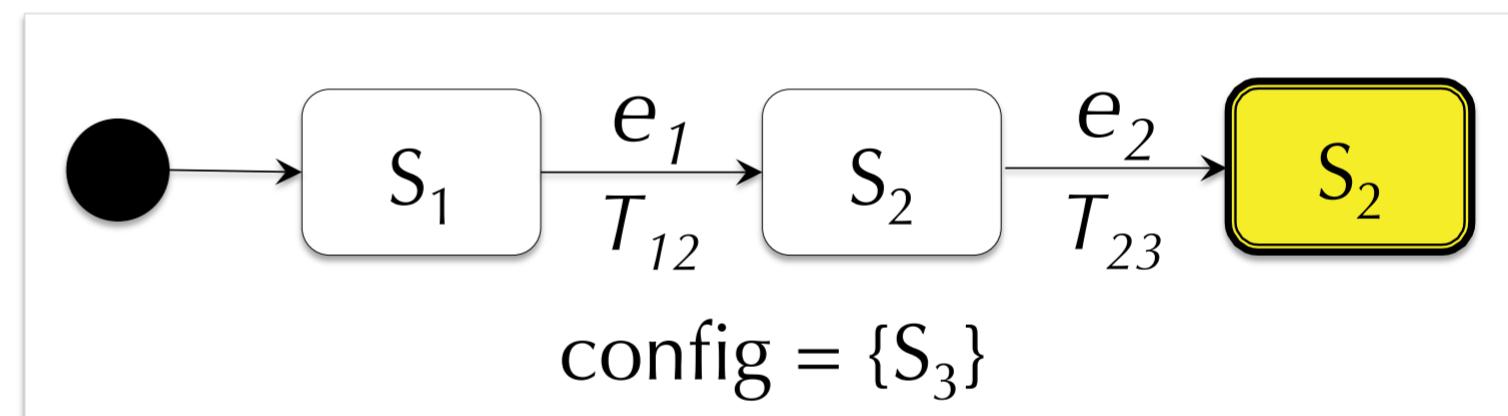
Current configuration ( $t_0$ )

**Step 1**  $\{e_1\}$

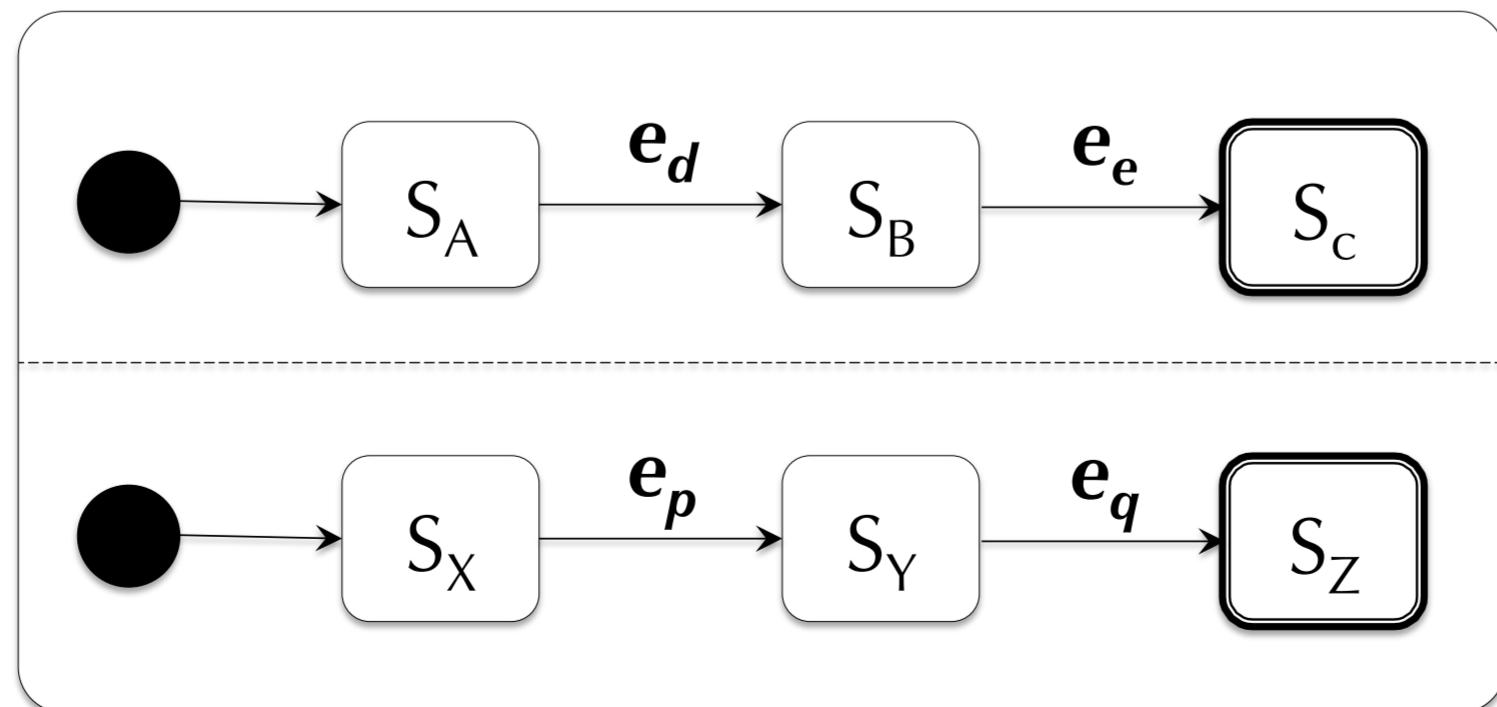


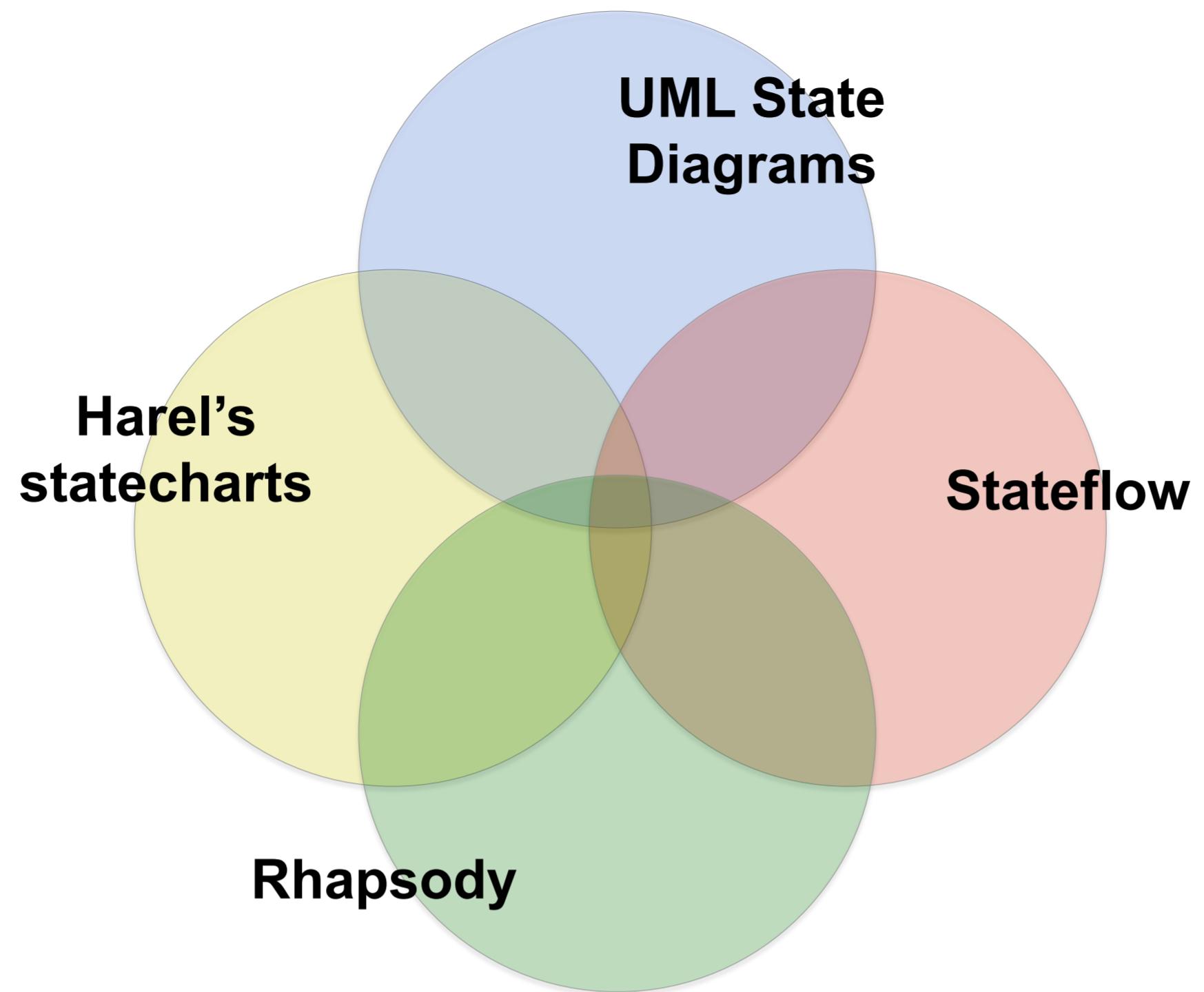
Current configuration ( $t_1$ )

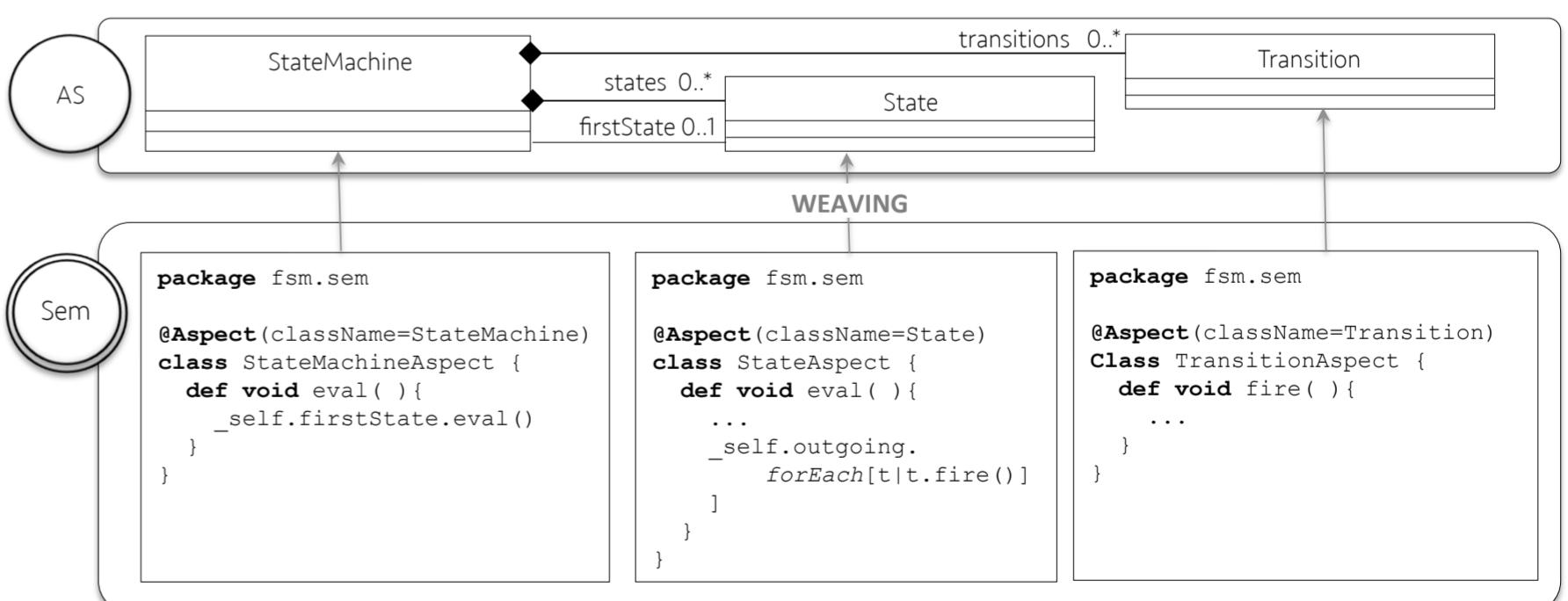
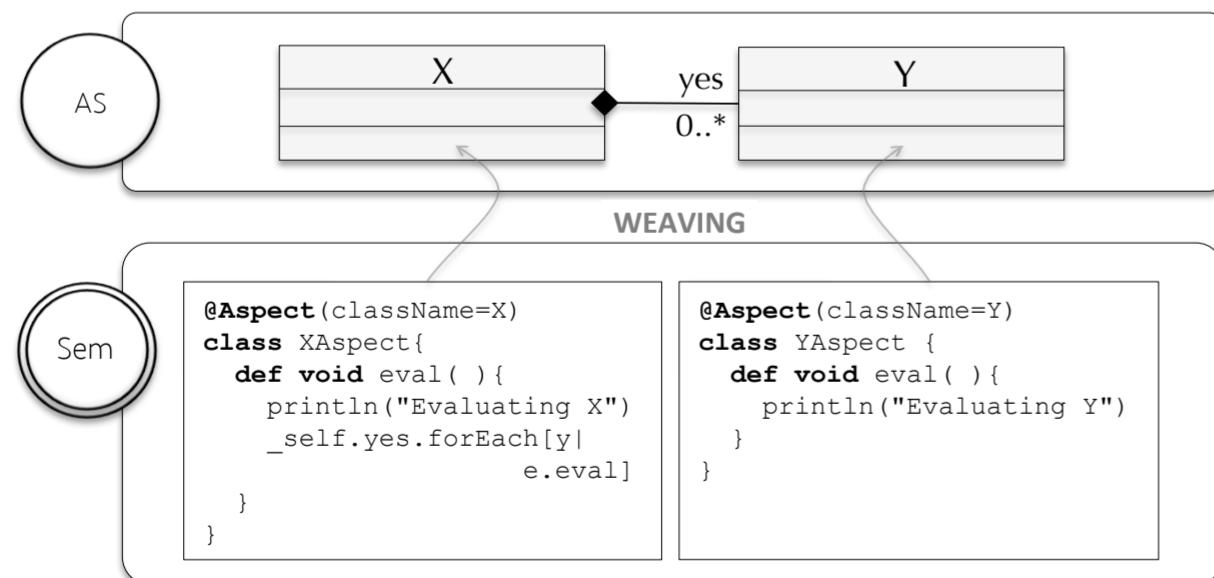
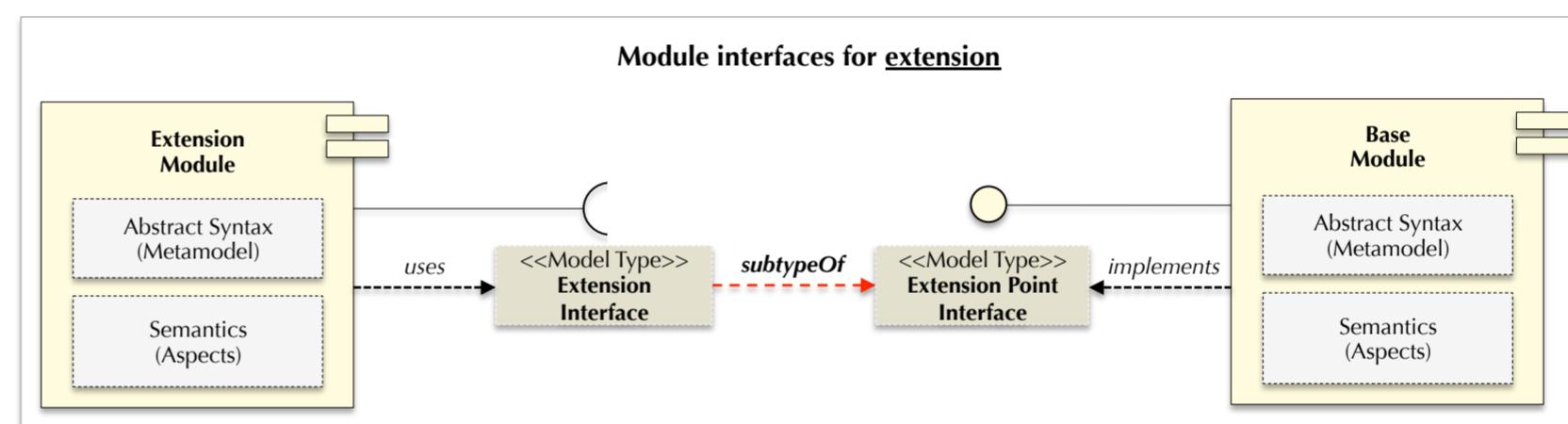
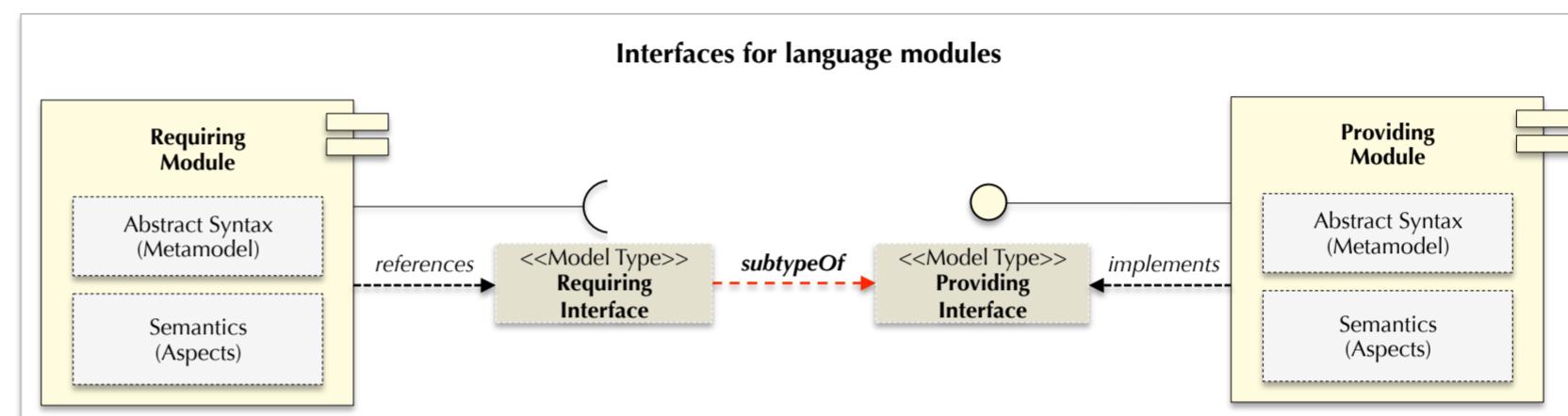
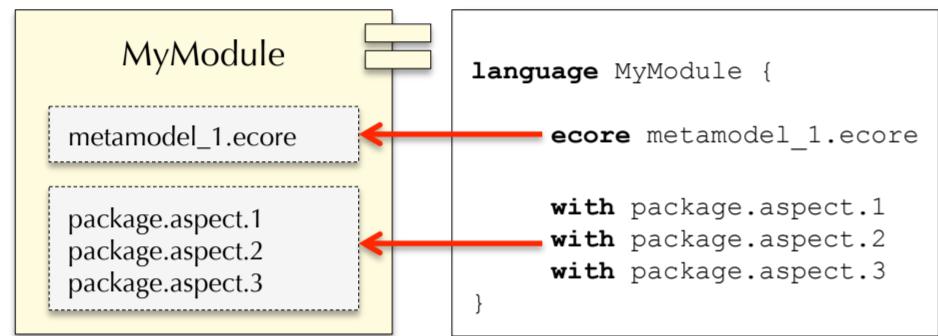
**Step 2**  $\{e_2\}$   
**(Final step)**

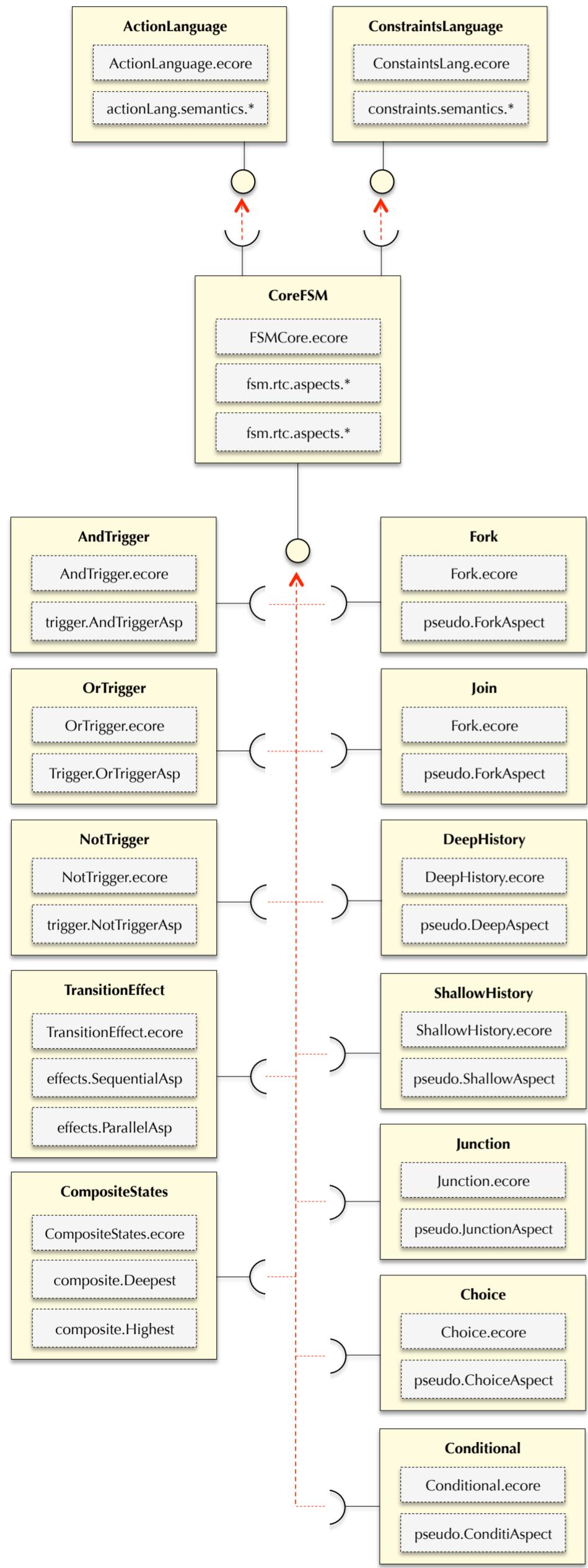


Current configuration ( $t_2$ )

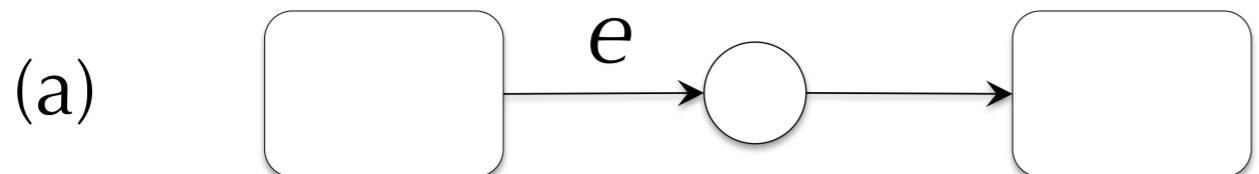




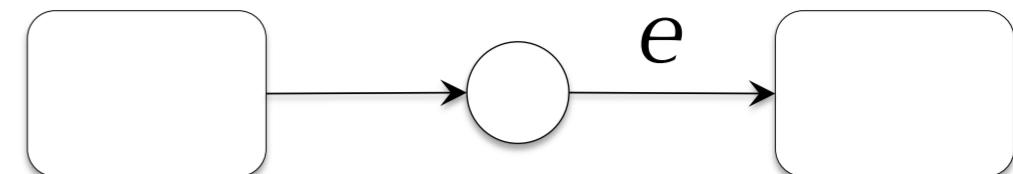




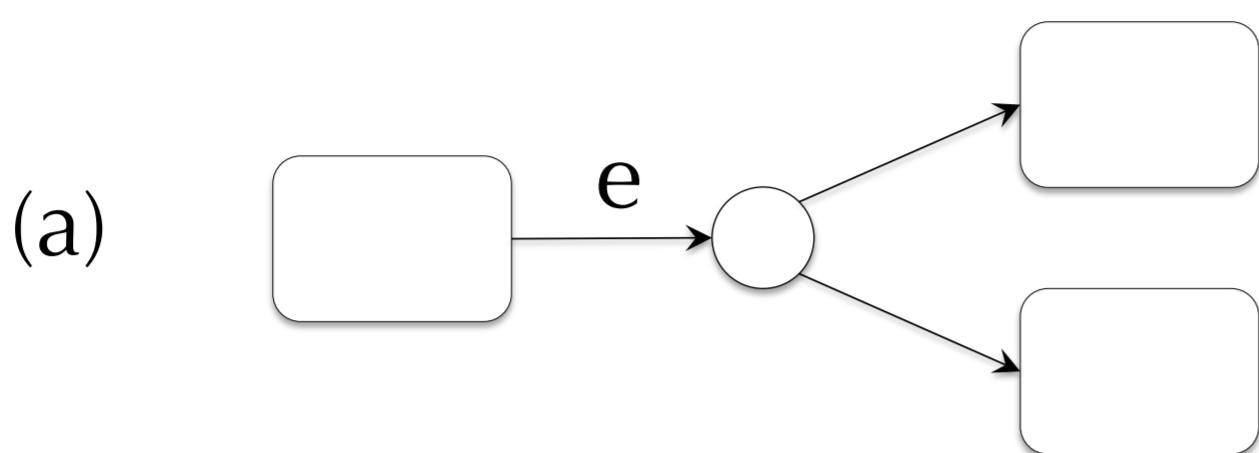
1



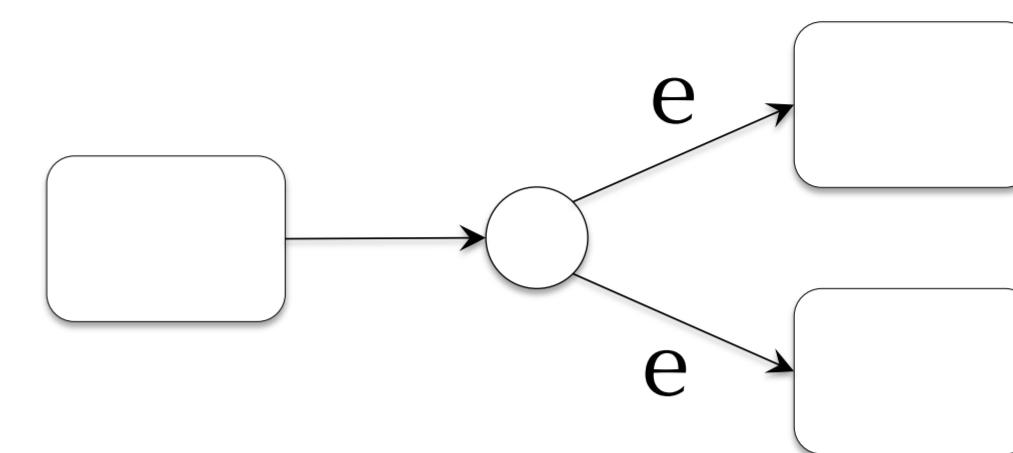
(b)



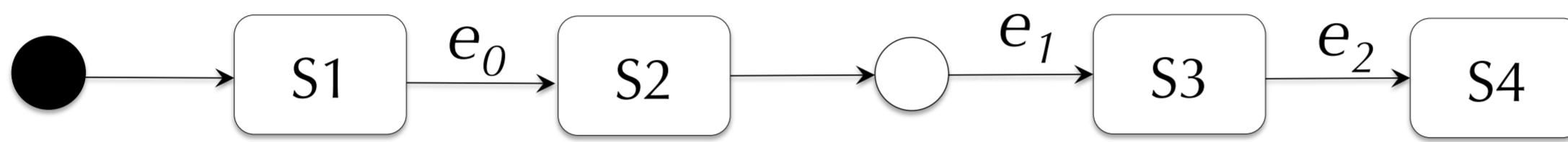
2



(b)

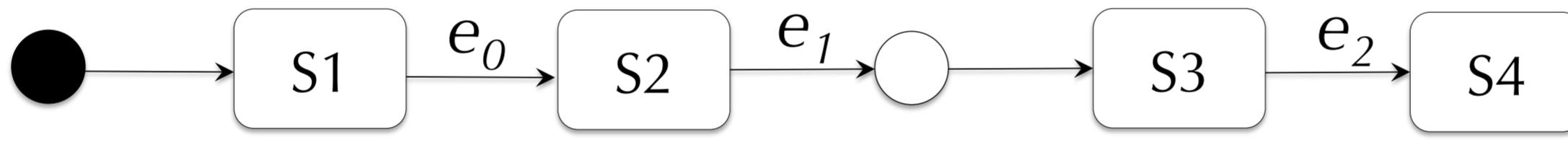


3



step_0	<b>[S1]</b>
step_1 {e <sub>0</sub> }	<b>[S2], [j]</b>
step_2 {e <sub>1</sub> }	<b>[S3]</b>
step_4 {e <sub>3</sub> }	<b>[S4]</b>

4



step_0	<b>[S1]</b>
step_1 {e <sub>0</sub> }	<b>[S2]</b>
step_2 {e <sub>1</sub> }	<b>[j], [S3]</b>
step_4 {e <sub>3</sub> }	<b>[S4]</b>

