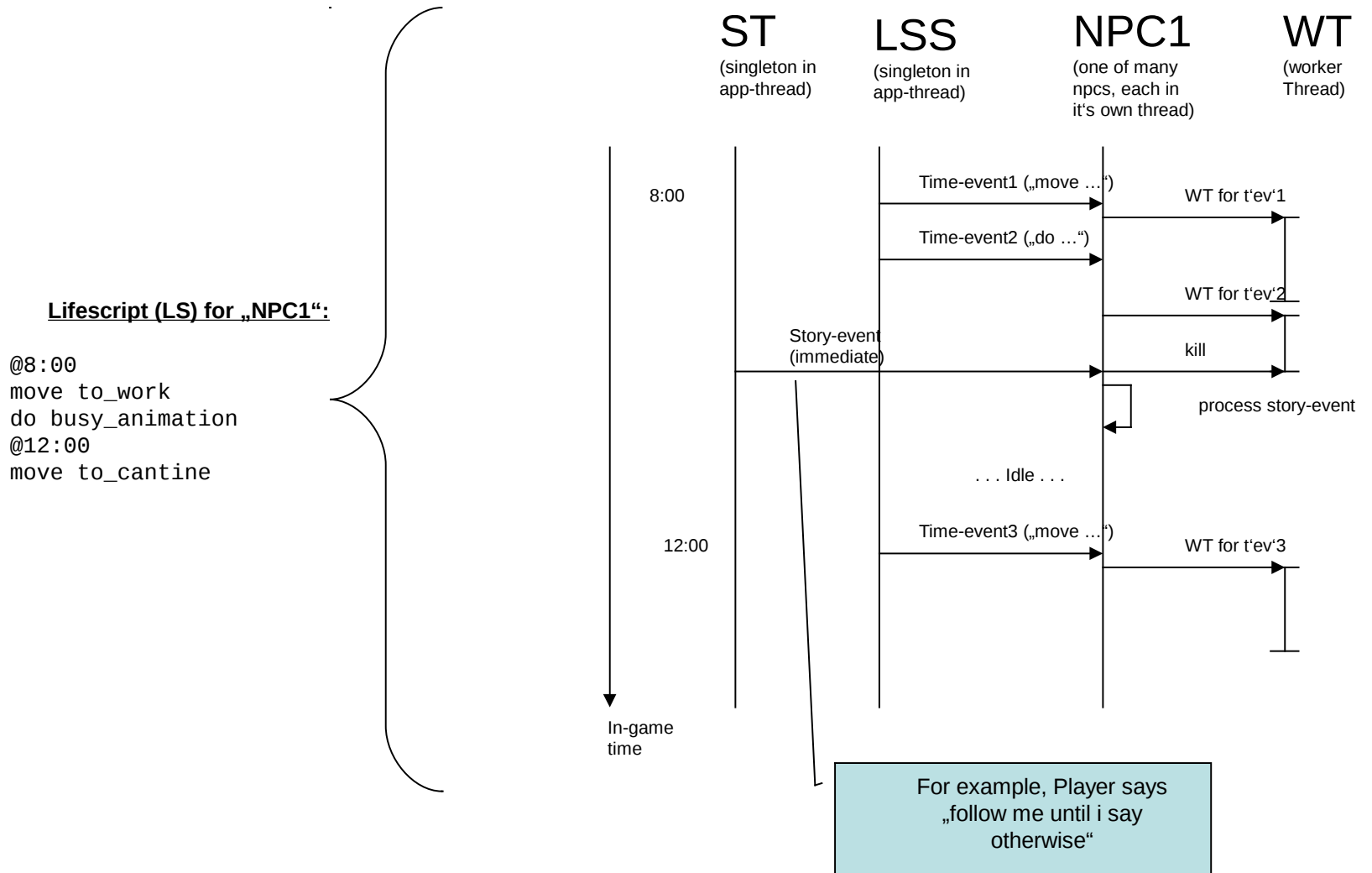


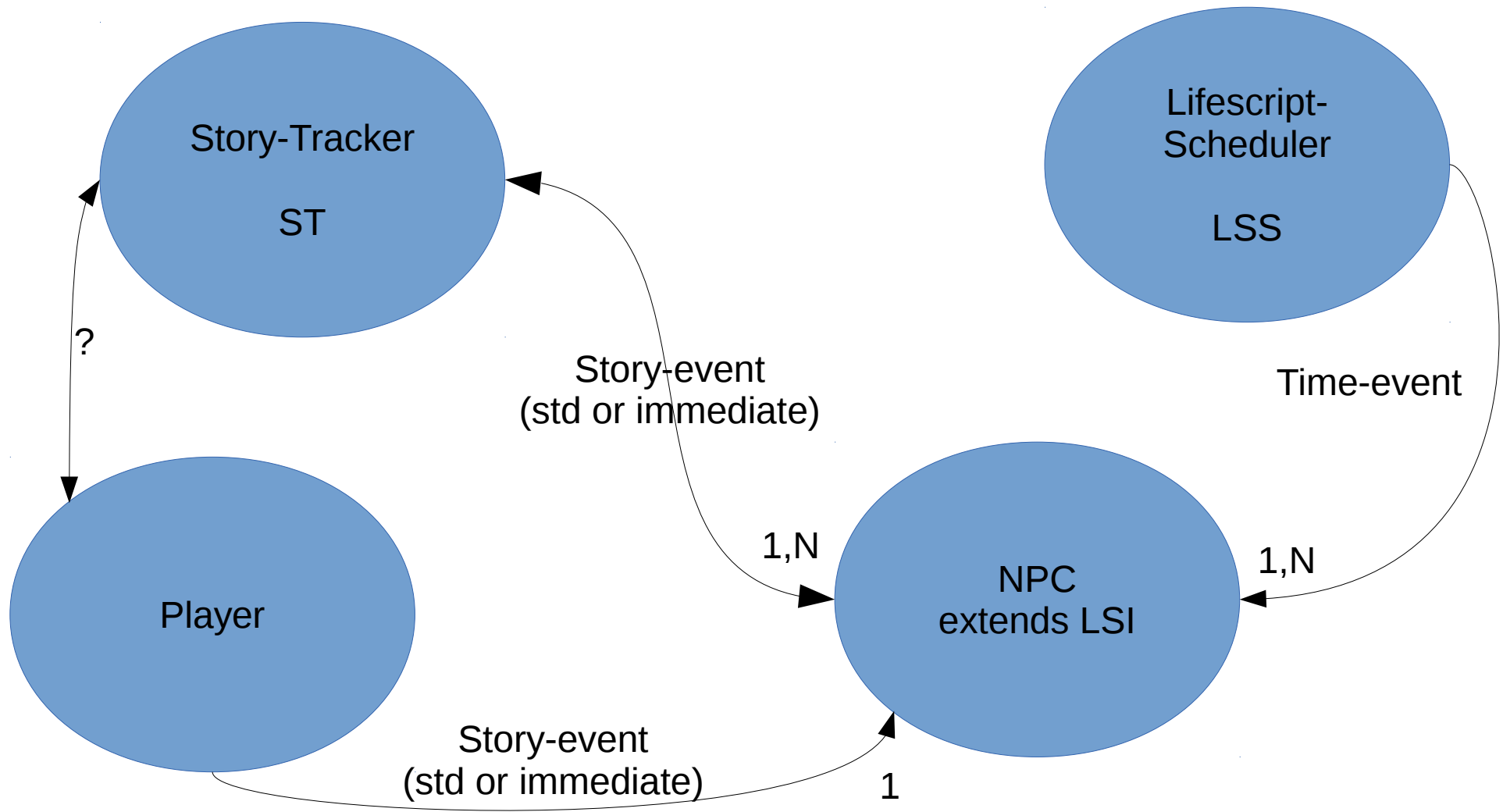
Anatomy of a Lifescript



- class NPC1 extends LSI
- LSI has prioritized FIFO Queue
- Prio(story-event immediate) > Prio(Time-event)

- ST = Story-Tracker
- LSS = LifeScript Scheduler
- LSI = LifeScript Interpreter
- NPC = non-player character
- WT = worker thread (disposable)
- LS = lifescript
- SG = scene graph

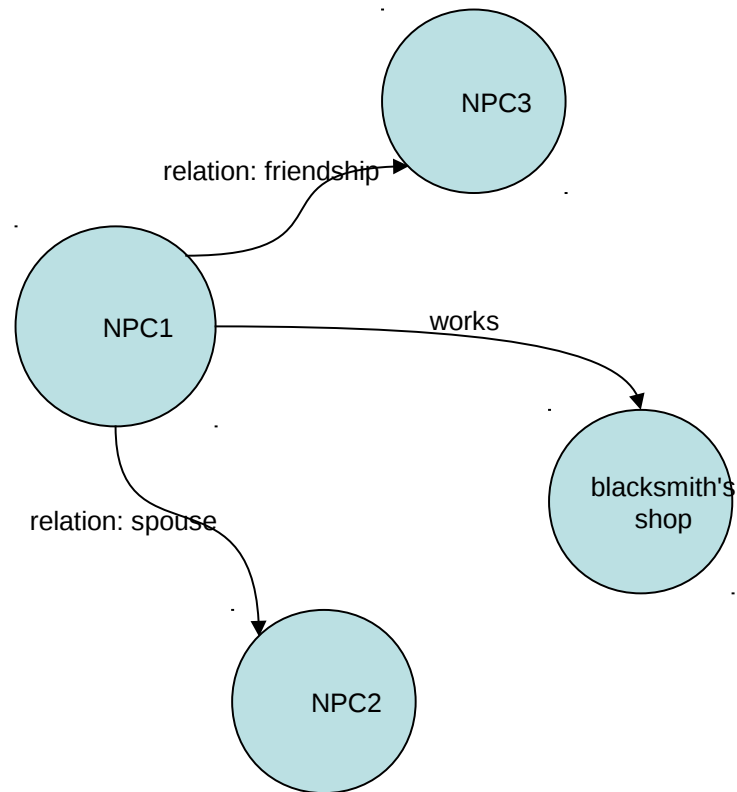
Events



LSS

- NPC $\leftarrow (0, N) \rightarrow (0, 1) \rightarrow$ lifescrypt-file
- LSS has a game-time clock
- At init-time reads data from lifescrypt files
- And builds this data-structure:
 - { time, {npc-id, [events]} }
 - (note: []=vector, {}=map)
- At runtime, looks up current time in data-structure and sends events to npc

In-Game-Object-Graph (IGOG)



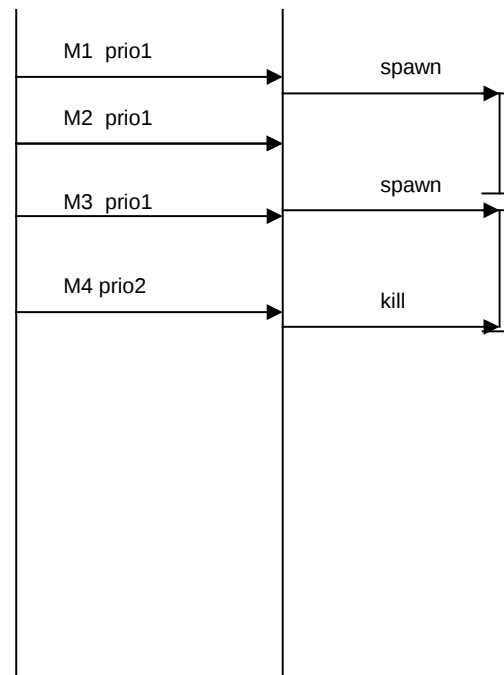
- LSI operates on (reads/writes) IGOG
- LSI asks IGOG „where is the location of the work of NPC1?“
- IGOG returns id of blacksmith's shop
- LSI asks scene-graph (SG) for spatial coordinates of blacksmith's shop per id
- LSI creates worker-thread for moving
- Worker-thread operates on (reads/writes) SG, does pathfinding, collision detection and terminates when destination reached
- SG is maintained by 3d-engine

Which „manager“ operates on which „datastructure“:

	LS	IGOG	SG
LSS	ro	-	-
LSI	-	rw	ro
WT	-	-	rw
Player	-	rw	rw
ST	-	rw	ro
3D Engine	-	-	rw

- ST = Story-Tracker
- LSS = LifeScript Scheduler
- LSI = LifeScript Interpreter
- NPC = non-player character
- WT = worker thread (disposable)
- LS = lifescrypt
- SG = scene graph

Threads A B W



Note: Prio2 > Prio1

