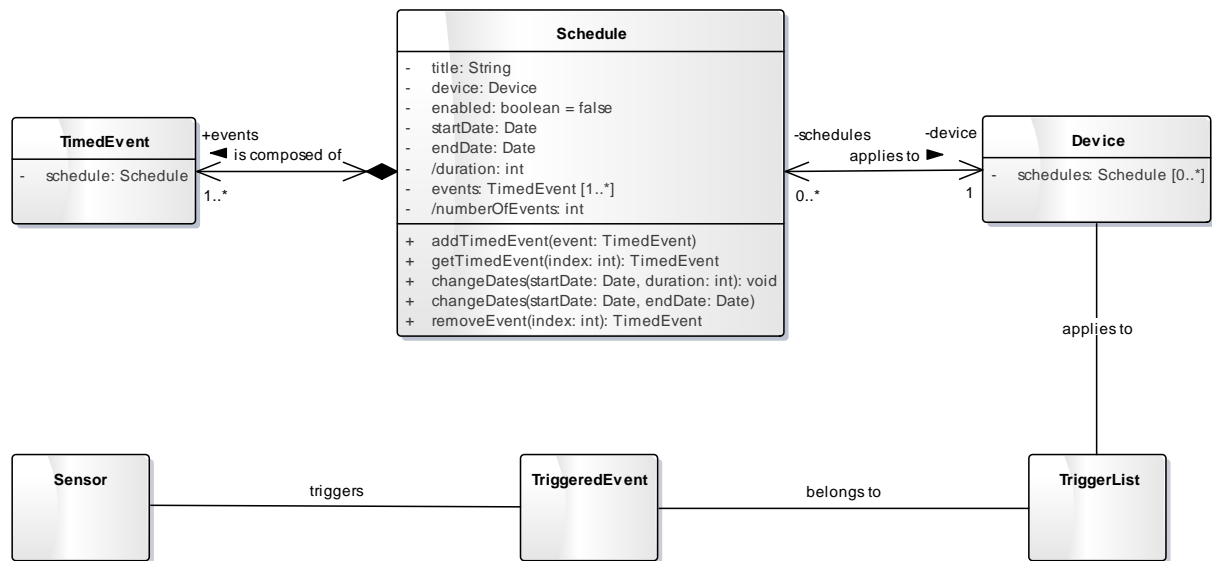# Learning UML

O'Reilly

Exercises – Composition and Aggregation

If you have followed along, your *domain* diagram should look similar to the one in the movie. If not, first create a diagram that looks like this.
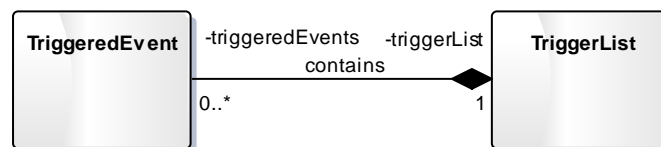

Now do the following:

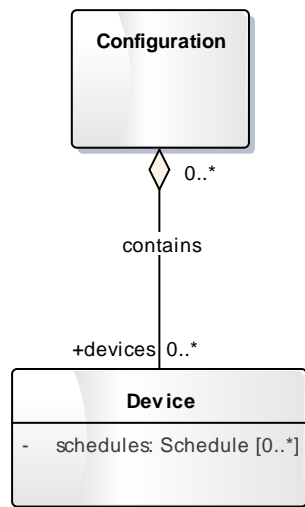Set the navigability from *TimedEvent* to *Schedule* to be unspecified.

Delete the association between *TriggerList* and *TriggeredEvent*.

Add a new composition relationship between *TriggerList* and *TriggeredEvent* and call it *contains*.

Set the direction indicator, role names and multiplicity values so that they look like the following diagram.

If you have followed along, your *home network* diagram should look similar to the one created in the movie. If not, first create a diagram that looks like this.

Now do the following:

Drag *Sensor* onto the diagram as a link from the project browser.

Add an aggregation relationship between *Configuration* and *Sensor* and call it *contains*.

Set the direction indicator to point to *Sensor* and the multiplicity values at both ends to *0..**.

Create a role name *sensors* at the *Sensor* end of the relationship.

Change the relationship between *Configuration* and *Device*, so that a direction indicator is shown and the *devices* role is private.

Your *home network* diagram should look like this.