Example implementation of an observer pattern

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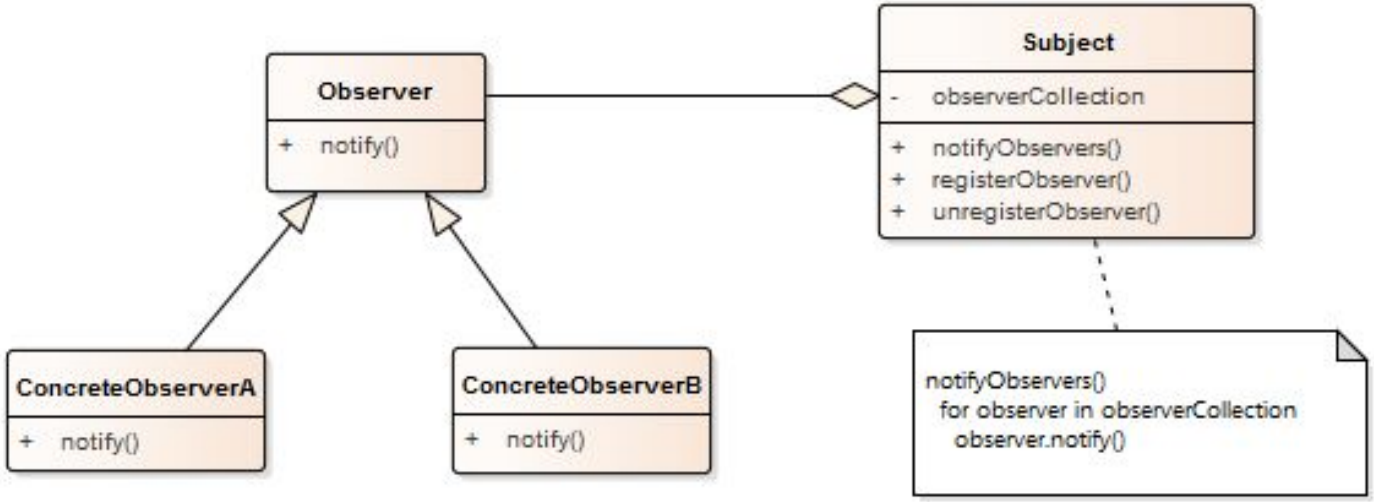
Task definition

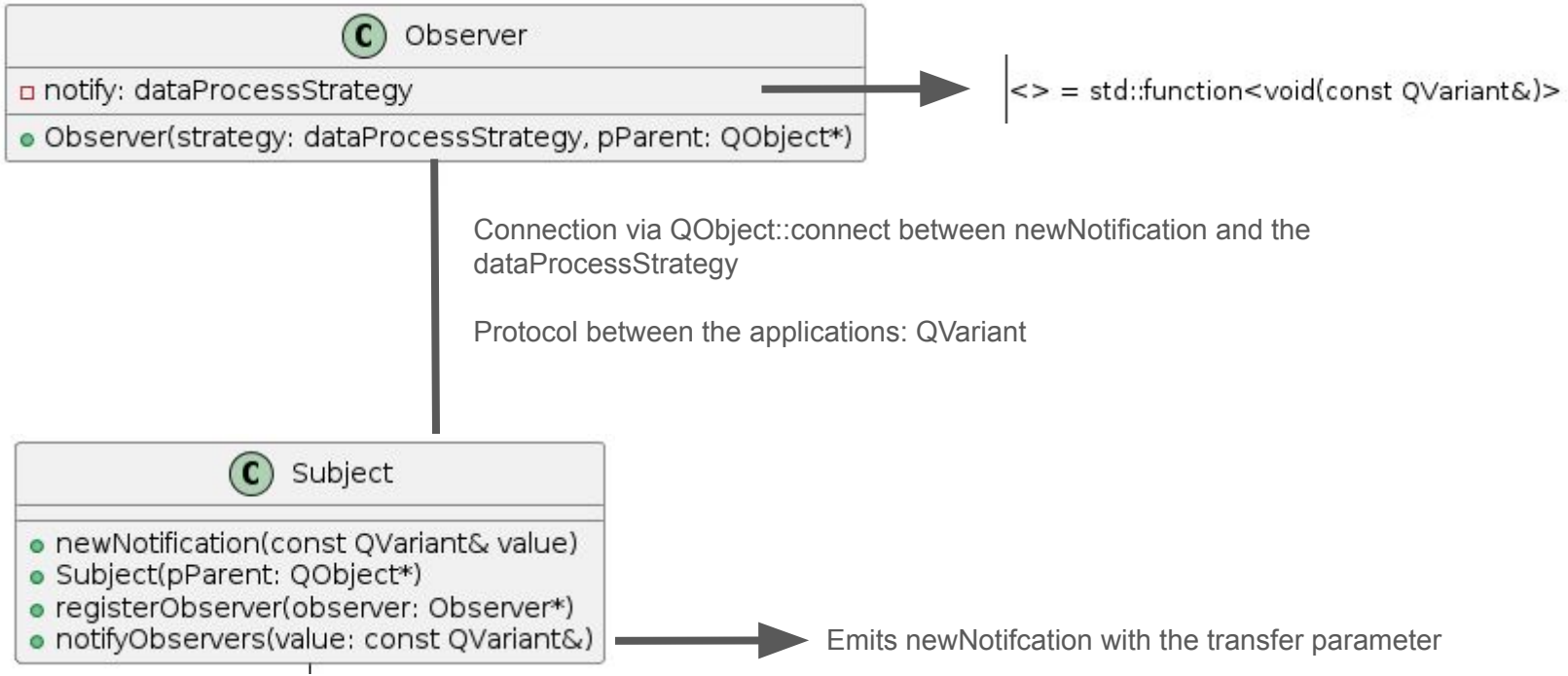
- Linux based ECU
- ECU contains a geo-data source
- provides points, lines, and areas
- access library that gives several consumers access to this geo-data source
- implement the observer pattern

Observer pattern in general

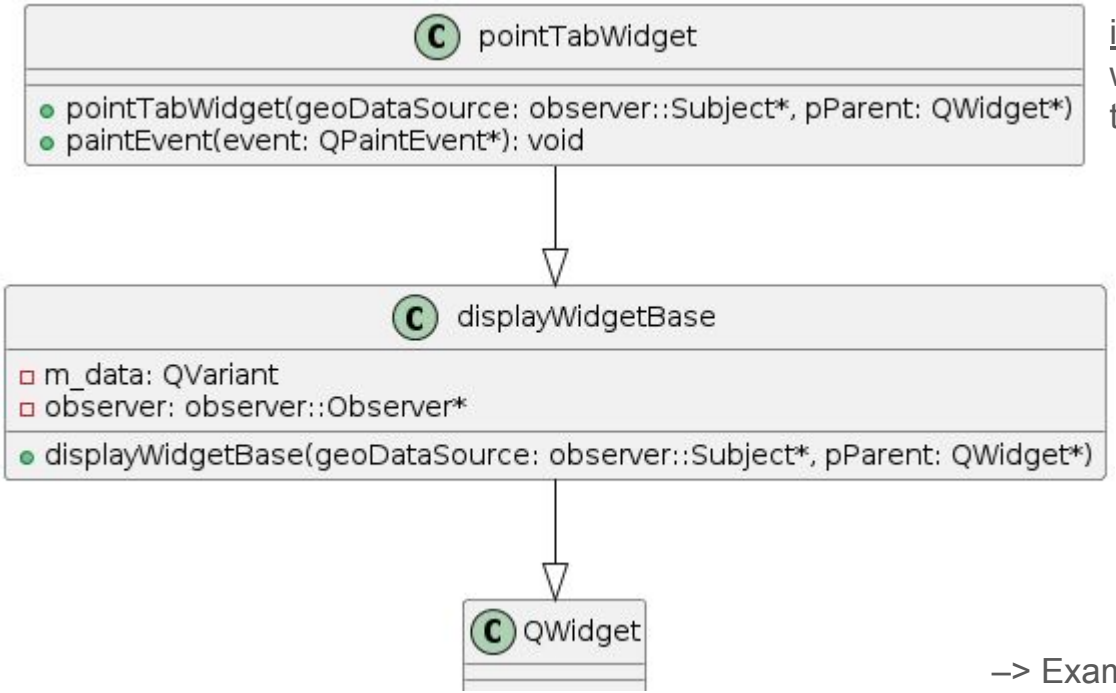


Source: Heise.de: Patterns in der Softwareentwicklung: Das Beobachtermuster

Implementation with Qt



Concrete example implementation



implements the paintEvent method: Check whether m_data can be converted to the type to be painted and then paint it

dataProcessStrategy: save transfer parameters in m_data and execute QWidget::update

–> Example: Qt_point_arrow