

0.1 Technical memo — Frontend interface

Type

Architectural

Factor

How to obtain a general communication channel from the model (mainly) to the frontend running the GUI. This is needed in cases where we want to display progress to the user on timeconsuming operations.

Solution

Define an frontend interface which has to be implemented by all of the GUI frontends, and register the frontend in the model at startup.

Motivation

Solving the problem this way makes the communication from the model general. We doesn't need to take care of the implementation of the GUI frontend and ensures that the frontend has the needed functions to display progress. We only tell the frontend to display and update progress to the user, and it is up to the running frontend to actually display something.

Unresolved issues

Alternatives considered

Make a own progress implementation in the model. This makes the model dependant on the running GUI frontend, and the model view separation is wast of time. We doesn't want that!

Another alternative is to pass a widget, which is capable to display progress, everytime we wants to do timeconsuming operations. This way we also need to do the model dependant on the running GUI frontend. Once more: We doesn't want that!

See also

<References to other places where the user may get more details of the implementation of the issue. For example, "See also the design model for details". Use itemize>