Project Structure:

- Project Files
 - o at_uebung.pro: Qt-project file
- C++-Files
 - cpuinforeader.h: contains the definition of the class "CPUinfoReader" and all functions necessary to process the file "/proc/info" and to supply the gathered information to QML
 - **main.cpp:** the main file instantiates the application and the CPUinfoReader and connects both objects. Runs the application.
- QML-Files
 - main.qml: defines the layout of the application. Contains the path to /proc/cpuinfo as a property. As data is gathered by calling the "Q_INVOKABLE" functions from cpuinforeader.h
 - ColorBox.qml: a styled box containing text, the main element of the layout
 - StyledButton.qml: the definition of the buttons used in the project. Uses ColorBox.qml
 - StatusText.qml: a text field for displaying information
 - **ListEntryBox.qml:** a preliminary version of the list elements used for displaying the information read from /proc/cpuinfo. Uses ColorBox.qml
 - ExpandableEntry.qml: A list element with two different states: The default state is identical to ListEntryBox.aml. By clicking on the element, a "expanded" state is triggered and more information is displayed. Necessary to display information that does not fit into the regular ListEntryBox.qml-layout. Uses ColorBox.qml
 - Background image: texture-954897_960_720.png

Functions of cpuinforeader.h:

In the following, "property" refers to the individual items of information given in /proc/cpuinfo (e.g. "processor", "bogomips", etc.).

"Label" and "Content" refer to the left and the right side of a individul line in /proc/cpuinfo. I.e. For the line "BogoMIPS": 62.50", "BogoMIPS" is the label and "62.50" the content.

- Q_INVOKABLE int getNumberOfEntries (int CPUnumber)
 Returns the number of properties given for the CPU with the number "CPUnumber"
- Q_INVOKABLE int getNumberOfCPUs()
 Returns the number of CPUs described in /proc/cpuinfo
- Q_INVOKABLE QString getLabelText(int propertyNumber, int processorNumber)
 Returns the label of the Xth property of the Yth CPU, with X propertyNumber, Y processorNumber
- Q_INVOKABLE QString getContentText(int propertyNumber, int processorNumber)
 Returns the content of the Xth property of the Yth CPU, with X propertyNumber, Y processorNumber
- Q_INVOKABLE QString readCPUinfoFile(QString Filename) reads and preprocesses the file /proc/cpuinfo