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Qt Creator Manual 8.0.2

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Qt **DOCUMENTATION**

Qt Creator provides a debugger plugin that acts as an interface between the Qt Creator core and external native debuggers such as the GNU Symbolic Debugger (GDB), the Microsoft Console Debugger (CDB), a QML/JavaScript debugger, and the debugger of the low level virtual machine (LLVM) project, LLDB.

> Setting Up Debugger

The debugger plugin automatically selects a suitable native debugger for each kit from the ones found on your system. You can edit the kits to override this choice.

> Launching the Debugger

To start an application from an open project under the control of a debugger, select the 📷 (**Start Debugging of Startup Project**) button or press **F5**. Other, less common start options are available in the **Debug** > **Start Debugging** menu.

> Interacting with the Debugger

You can use the tool views in the **Debug** mode to inspect the state of your application while debugging.

> Using Debugging Helpers

Qt Creator is able to show complex data types in a customized, user-extensible manner. For this purpose, it takes advantage of two technologies, collectively referred to as *debugging helpers*.

> Debugging Qt Quick Projects

When debugging a Qt Quick application, you can inspect the state of the application while debugging JavaScript functions. You can set breakpoints, view call stack trace, and examine locals and expressions. While the application is running, you can inspect QML objects and user interfaces, as well as execute JavaScript expressions.

> Debugging a C++ Example Application

Illustrates how to debug C++ applications in Qt Creator.

> Debugging a Qt Quick Example Application

Illustrates how to debug Qt Quick applications in Qt Creator.

> Troubleshooting Debugger

If you encounter problems while debugging, check for possible solutions to them.

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