



# Mastering Qt 5

By Guillaume Lazar, Robin Penea

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**Mastering Qt 5** By Guillaume Lazar, Robin Penea

**Master application development by writing succinct, robust, and reusable code with Qt 5**

## About This Book

- Unleash the power of Qt 5 with C++14
- Integrate useful third-party libraries such as OpenCV
- Package and deploy your application on multiple platforms

## Who This Book Is For

This book will appeal to developers and programmers who would like to build GUI-based applications. Knowledge of C++ is necessary and the basics of Qt would be helpful.

## What You Will Learn

- Create stunning UIs with Qt Widget and Qt Quick
- Develop powerful, cross-platform applications with the Qt framework
- Design GUIs with the Qt Designer and build a library in it for UI preview
- Handle user interaction with the Qt signal/slot mechanism in C++
- Prepare a cross-platform project to host a third-party library
- Build a Qt application using the OpenCV API
- Use the Qt Animation framework to display stunning effects
- Deploy mobile apps with Qt and embedded platforms

## In Detail

Qt 5.7 is an application development framework that provides a great user experience and develops full-capability applications with Qt Widgets, QML, and even Qt 3D.

This book will address challenges in successfully developing cross-platform applications with the Qt framework. Cross-platform development needs a well-

organized project. Using this book, you will have a better understanding of the Qt framework and the tools to resolve serious issues such as linking, debugging, and multithreading. Your journey will start with the new Qt 5 features. Then you will explore different platforms and learn to tame them. Every chapter along the way is a logical step that you must take to master Qt. The journey will end in an application that has been tested and is ready to be shipped.

## Style and approach

This is an easy-to-follow yet comprehensive guide to building applications in Qt. Each chapter covers increasingly advanced topics, with subjects grouped according to their complexity as well as their usefulness. Packed with practical examples and explanations, Mastering Qt contains everything you need to take your applications to the next level.

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### Editorial Review

#### About the Author

Guillaume Lazar is a software engineer living near Paris in France. He has worked for different companies, from startups to multinationals, for the last 7 years. He took the opportunity to observe and learn from many team organizations and technologies. He eventually founded his own software development company, NeuronalMotion, at the age of 27 with his friend Robin Penea in 2014. Information about it and its open source projects can be found on the company's website, [www.neuronalmotion.com](http://www.neuronalmotion.com). NeuronalMotion represents to Guillaume "a different way of working." The current hierarchical organization that applies to most companies seems obsolete to him. With his own company, he wants to try something different, where each employee will be autonomous. Although he defines himself as a Qt framework lover, he likes to mix different technologies and platforms. He also spends time on game development, machine learning, and electronics, because "things" become "alive."

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