

COMPUTATIONAL THINKING

Developing Algorithmic Thinking through Visual Programming (Arabic), Khaled Asad & Moanes H. Tibi. Although this is not for C++ programming but it can provide you some ideas to develop your algorithmic thinking skill.

C++ BOOKS

Beginners with **NO** previous programming experience

- **C++ Primer**, Stanley Lippman, Josée Lajoie, and Barbara E. Moo. This is a very thorough introduction into C++ that covers just about everything in the language in a very accessible format and in great detail. The fifth edition (released August 16, 2012) covers C++11.
- **Programming: Principles and Practice Using C++**, Bjarne Stroustrup, (updated for C++11/C++14) An introduction to programming using C++ by the creator of the language. A good read, that assumes no previous programming experience, but is not only for beginners.

Beginners with previous programming experience

- **A Tour of C++**, Bjarne Stroustrup (EBOOK). This provides a quick tutorial overview of all of standard C++ (language and standard library) at a moderately high level for people who already know C++ or at least are experienced programmers.
- **Accelerated C++**, Andrew Koenig and Barbara Moo. This basically covers the same ground as the *C++ Primer*, but does so on a fourth of its space. This is large because it does not attempt to be an introduction to *programming*, but an introduction to C++ for people who've previously programmed in some other language. It has a steeper learning curve, but, for those who can cope with this, it is a very compact introduction to the language. (Historically, it broke new ground by being the first beginner's book to use a modern approach to teaching the language.)

C++ VIDEO TUTORIALS

ARABIC

- MyLegacy in Programming
<https://youtu.be/ozFHXh66A8I>
- Adel Nasim
<https://youtu.be/z1FdInL8sjg>

ENGLISH

- Trevor Payne
https://youtu.be/_r5i5ZtUpUM

APPS FOR LEARNING C++

APP STORE

<https://itunes.apple.com/us/app/learn-to-code-with-c/id960646346?mt=8>

GOOGLE STORE

<https://play.google.com/store/apps/details?id=com.sololearn.cplusplus>

GAMES FOR LEARNING C++

Intermediate to advance programmers

<https://www.codingame.com/ide/puzzle/onboarding>