*C++/Qt

Adding even more power to C++

* Created by Bjarne Stroustrup
* Started as "C with Classes"
* Renamed to C++ in 1983
* *The C++ Programming Language* in 1985
* In 1989, C++ 2.0 was released
* C++ evolved relatively slowly until, in 2011, the C++11 standard was released

* Origins of C++

* Created by Haavard Nord and Eirik Chambe-Eng
* They were working together on a database application for ultrasound images written in C++ and running on Mac OS, Unix, and Windows
* The toolkit was called Qt because the letter Q looked appealing in Haavard's Emacs typeface, and "t" was inspired by Xt
* Current version is Qt5

* Origins of Qt

* Supersets C
* Classes
* Object Oriented Programming
* Standard Libraries
* C++ is regarded as a **middle-level** language

* C++ strong points

* Complete abstraction of the GUI (made porting easy)

* Signals and slots: is a language construct introduced in Qt for communication between objects which makes it easy to implement the Observer pattern while avoiding boilerplate code

* Metaobject compiler(signals and slots, introspection and asynchronous function calls)

* Qt advantages