# Tutoriel d'installation du logiciel Qt5.9

• Objet: pour installer QT. (et pour lancer le programme de base)

### Version: 5.9.0

- La configuration de mon ordinateur: X64(il est compatible avec les applications X86)
- L'internets qu'on utilise:

https://developer.android.com/studio/index.html#Other <<installer le android studio>>

http://www.qt.io/ <<installer le QT>>

https://developer.android.com/ndk/downloads/index.html <<installer le NDK>>

https://appbus.wordpress.com/category/qt-for-mobile/prepare-developm ent <<installer le tools r25.2.5>> ATTENTION !! si n' a pas de tools le Qt ne peut pas determiner le SDK

https://developer.android.com/ndk/downloads/index.html <<installer le ANT>>

# Installaton

Tout d' abord on ouvre l'internet officiel de QT http://www.qt.io/, clique le "start free Qt trail"



-> "Desktop & Mobile Application"

# Or choose a download and give Qt a try.

What kind of development project do you have?





source Commercial offering with free 30-dav trial.

#### -> "Get your open source package"

When developing with Qt Open Source, we stress that you should be aware of the terms of the GPL or LGPL and your legal obligations. Before you start developing, please ensure yo project complies with the license & your company allows open source products usage.

# Get your open source package

pour télécharger le progiciel d'installation.

# Your download

We detected your operating system as: Windows Recommended download: Qt Online Installer for Windows

Before you begin your download, please make sure you:

- > learn about the obligations of the LGPL.
- > read the FAQ about developing with the LGPL.



Après, on a obtenu un application pour la prochaine étape:

02/10/2017 14:14 02/10/2017 14:14

2/10/2017 14:14 Application

19 581 Ko

C'est un application pour télécharger, on le clique, il y a une fenetre qui éjecte:



Si on n'a pas de compte du Qt, on peut créer un nouveau compte de Qt

×

Qt Installateur

#### Qt Account - Your unified login to everything Qt



- et après , on clique "suivant" pour choisir des composants:
  - ← Qt Installateur

Sélection des composants

Veuillez sélectionner les composants que vous souhaitez installer.

~	Preview		~	Latest Qt and related package
	> 0 0	t 5.10 Beta snapsho	t	preview snapshots
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 Alors, on clique le "suivant" pour permettre le contrat de licence et télécharger(attention:ça fait longtemps!!):  $\times$ 

#### ← Qt Installateur

#### Contrat de Licence

Veuillez lire les contrats de licence suivants. Vous devez en accepter les termes avant de poursuivre l'installation.

GENERAL GENERAL Control and monetize on your end products development, user experience and distribution. You also get great perk like additional functionality, productivity enhancing tools, world-class support and a close strategic relationship with The Qt Company to make sure your product and development goals are met. Qt has been created under the belief of open development and providing freedom and choice to developers. To support that, The Qt Company also licenses Qt under open source licenses, where most of the functionality is available under LGPU3 or LGPLv2.1. It should be noted that some components are available only under LGPLv3. In order to preserve the true meaning of open development and uphold the spirit of free software, it is imperative that the rules and regulations of open source licenses are followed. If you use Qt under open-source licenses, you need to make sure that you comply with all the Deve read and agree to the terms contained in the license agreements. I go not accept the terms and conditions of the above license agreements. I go not accept the terms and conditions of the above license agreements. Qt Installation de Qt 1 20ownloading archive "5.9.0-0-20 1705292002qtdoc-opensource-src-5.9.0.7z" for component 379.00 KB sur 2.38 MB (267.43 KB/s) - 7 secondes restant. Voir le détail		FOUNDATION LICENSE VERSION 2
Qt is available under a commercial license with various pricing models and packages that meet a variety of needs. Commercial Qt license keeps your code proprietary where only you can control and monetize on your end product's development, user experience and distribution. You also get great perks like additional functionality, productivity enhancing tools, world-class support and a close strategic relationship with The Qt Company to make sure your product and development goals are met. Qt has been created under the belief of open development and providing freedom and choice to developers. To support that, The Qt Company also licenses Qt under open source licenses, where most of the functionality is available only under LGPLV3 or LGPLV2.1. It should be noted that some components are available only under LGPLV3 or LGPLV2.1. It should be noted that some components are available only under LGPLV3.1. for other to preserve the true meaning of open development and uphold the spirit of free software, it is imperative that the rules and regulations of open source licenses are followed. If you use Qt under open-source licenses, you need to make sure that you comply with all the like or the true meaning of open development and uphold the spirit of free software, it is imperative that the rules and regulations of the above license agreements. I go not accept the terms and conditions of the above license agreements. I go not accept the terms and conditions of the above license agreements. Qt Installateur Qt Installateur <pre> 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</pre>	GENERAL	
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• Puis, aprés finalise le téléchargement, on peut ouvrir la fenetre principal:

Installation

Annuler

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 Mais, on n'a pas lancer le programme de base maintenant, il encore manque d'éléments comme SDK NDK JDK ANT.

Emplacement du JDK	C:\PROGRA~1\Java\JDK18~1.0_1	Parcourir
nent du SDK Android :	C:\Users\BAI\AppData\Local\Android\sdk	Parcourir
ent du NDK Android :	C:\Qt\android-ndk-r15c-windows-x86\android-ndk-r15c	Parcourir
	12 chaînes de compilation trouvées pour ce NDK.	7
	Créer automatiquement les kits pour les chaînes de compilation Android	
	A Qt versions for 4 architectures are missing. To add the Qt versions, select Options > Build & Run > Qt Versions.	
	☑ Use Gradle instead of Ant (Ant builds are deprecated) 🕕	
Ant executable:	C:\Users\BAI\sous trait\ant\apache-ant-1.10.1\bin\ant.bat	Parcourir

 Pour le téléchargement de NDK, on clique flèche verts à droite, et puis, on entré un web page, et cliquez les mots bleu pour télécharger:

Select the NDK pa the latest version	ckage for your development platform. Fo of the NDK and earlier revisions, see NDF	or information abou K Revision History.	t the changes in	In this document
				> Latest Stable Version
Latest Sta	ble Version (r15c)			> Older Versions
Latest Sta	ble Version (r15c)	Size (Bytes)	SHA1 Checksum	Older Versions

Pour SDK, on utiliser le Visual Studio pour télécharger. D'abord, on le télécharger sur l'internet
 <a href="https://developer.android.com/studio/index.html#Other">https://developer.android.com/studio/index.html#Other</a>. Après, on entré la

fenetre principal de VS:



#### On clique "Configure->SDK manager"

roid SDK Location: C:\Users\BAI\AppData\Local	\Android\sdk	Edit	
K Platforms SDK Tools SDK Update Sites			
h Android SDK Platform package includes the An ault. Once installed, Android Studio will automati play individual SDK components.	droid platform and source cally check for updates. Ch	s pertaining to an API level neck "show package details	by "to
Name Name	26 API Lev	el Revision	Status
Android 7.1 1 (Nevent)	20	2	Installeu Undate available
Android 7.0 (Nougat)	23	2	Update available
Android 6.0 (Marshmallow)	24	2	Installed
Android 5.1 (Lellinon)	23	2	Installed
Android 5.0 (Lollinon)	21	2	Not installed
Android 4.4W (KitKat Wear)	20	2	Not installed
	19	4	Not installed
Android 4.4 (KitKat)	13	-	Not installed
Android 4.4 (KitKat)	18	3	Not installed
Android 4.4 (KitKat) Android 4.3 (Jelly Bean) Android 4.2 (Jelly Bean)	18 17	3	Not installed

 Pour le tools qu'on a télécharché avant, on ouvre la fichier et clique la android.bat. On clique les options comme ça et les télécharge(apès cet opération, il y a le Android build SDK :android-26)

Android SDK Manager				o ×
Packages Tools SDK Path: C:\Users\BAI\sous trait\sdk Packages				
·∰i Name ✓ □ 🛅 Tools	API	Rev.	Status	-
Android SDK Tools		25.2.5	😿 Installed	
🗌 🥓 Android SDK Platform-tools		26.0.1	😿 Installed	
🗌 🥓 Android SDK Build-tools		26.0.2	👼 Installed	
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	📫 SDK Platform	26	2	😿 Installed	
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	🔢 Android Wear Intel x86 Atom System Image	26	2	👼 Installed	
Ľ	💵 Google Play Intel x86 Atom System Image	26	5	🗒 Installed	
	🔢 Google APIs Intel x86 Atom System Image	26	6	😿 Installed	
E	Sources for Android SDK	26	1	👼 Installed	
	Android 7.1.1 (API 25)				

#### ✤ On télécharge le ANT sur

# https://developer.android.com/ndk/downloads/index.html et fait la installation

Minuteria Califia	and and a divertification and the state	040700007	
WINDOWS 04-DIL	android-ndk-r15c-windows-x86_64.zip	849/33990	9/UDD2490deUeada/40/4DD1DU0d/91051/25090

#### Pour le JDK, on télécharge le JDK 8u151 with NetBeans 8.2 et installe

his distribution of the JDK inclue	des the Java SE I	oundle of NetBeans IDE, which is a powerful
ntegrated development environn	nent for developin	g applications on the Java platform. Learn mo
You must accept the JDK download this software.	8u151 and NetBe	eans 8.2 Cobundle License Agreement to
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Agreement; you may no Java SE and N Product / File Description Linux x86 Linux x64 Mac OS X x64 Windows x86	VetBeans Cob File Size 295.39 MB 290.35 MB 362.67 MB 326.03 MB	s software. undle (JDK 8u151 and NB 8.2) Download

ATTENTION !! après ça, on va modifier les variations de système. Sinon, on ne peut pas utiliser le JDK(java version)

• On ouvre panneau de configuration->système->paramètres système

#### avancé->variable environnement

valiable	Valeur			
OneDrive	C:\Users\BAI\OneDrive			
Path	C:\Users\BAI\AppData\Local\Microsoft\WindowsApps;"C:\Progra	100		
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## Dans le variables système, on créer JAVA\_HOME, ANT\_HOME, CLASSPATH

Aodifier la variable systèm	e	
Nom de la variable :	JAVA_HOME	
/aleur de la variable :	C:\Program Files\Java\jdk1.8.0_151	
Parcourir le répertoire	Parcourir le fichier	OK Annuler
lodifier la variable systèm	e	
lom de la variable :	ANT_HOME	
Nom de la variable : /aleur de la variable :	ANT_HOME C:\Users\BAI\sous trait\ant\apache-ant	-1.10.1

Modifier la variable système	a	×
Nom de la variable :	CLASSPATH	
Valeur de la variable :	.: .;%JAVA_HOME%\lib\dt.jar;%JAVA_HO	DME%\lib\tools.jar;
Parcourir le répertoire	Parcourir le fichier	OK Annuler

## Après, on clique le PATH dans le variables système, l'opération est ci-après (ajoute comme le mien)

2:\Program Files (x86)\Intel\iCLS Client\         2:\Program Files\Intel\iCLS Client\         %SystemRoot%\system32         %SystemRoot%\System32\Wbem         %SystemRoot%\System32\Wbem         %SYSTEMROOT%\System32\WindowsPowerShell\v1.0\         C:\Program Files (x86)\Intel\Intel(R) Management Engine Compon         C:\Program Files (x86)\Java\jre1.8.0_151\bin;         %ANT_HOME%\bin         %JAVA_HOME%\bin;%JAVA_HOME%\jre\bin;	C:\ProgramData\Oracle\Java\javapath	Nouveau
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%SystemRoot%       Parcourir         %SystemRoot%\System32\Wbem       Supprimer         %SYSTEMROOT%\System32\WindowsPowerShell\v1.0\       Supprimer         C:\Program Files (x86)\Intel\Intel(R) Management Engine Compon       Déplacer vers le ha         C:\Program Files (x86)\Intel\Intel(R) Management Engine Compon       Déplacer vers le ha         C:\Program Files (x86)\Intel\Intel(R) Management Engine Compon       Déplacer vers le ha         C:\Program Files (x86)\Java\jre1.8.0_151\bin;       Déplacer vers le ba         %ANT_HOME%\bin       MANE%\bin;%JAVA_HOME%\jre\bin;	%SystemRoot%\system32	10
%SystemRoot%\System32\Wbem       Supprimer         %SYSTEMROOT%\System32\WindowsPowerShell\v1.0\       Supprimer         %SYSTEMROOT%\System32\WindowsPowerShell\v1.0\       Supprimer         C:\Program Files (x86)\Intel\Intel(R) Management Engine Compon       Déplacer vers le ha         C:\Program Files (x86)\Intel\Intel(R) Management Engine Compon       Déplacer vers le ha         C:\Program Files (x86)\Intel\Intel(R) Management Engine Compon       Déplacer vers le ha         C:\Program Files (x86)\Java\jre1.8.0_151\bin;       Déplacer vers le ba         %ANT_HOME%\bin       MANE%\bin;	%SystemRoot%	Parcourir
%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\       Supprimer         C:\Program Files (x86)\Intel\Intel(R) Management Engine Compon       Déplacer vers le ha         C:\Program Files (x86)\Intel\Intel(R) Management Engine Components\       Déplacer vers le ha         C:\Program Files (x86)\Intel\Intel(R) Management Engine Compon       Déplacer vers le ha         C:\Program Files (x86)\Intel\Intel(R) Management Engine Compon       Déplacer vers le ha         C:\Program Files (x86)\Java\jre1.8.0_151\bin;       Déplacer vers le ba         %ANT_HOME%\bin       MANZ_HOME%\jre\bin;	%SystemRoot%\System32\Wbem	
C:\Program Files (x86)\Intel\Intel(R) Management Engine Compon       Déplacer vers le ha         C:\Program Files (x86)\Intel\Intel(R) Management Engine Components\       Déplacer vers le ha         C:\Program Files (x86)\Intel\Intel(R) Management Engine Components\       Déplacer vers le ha         C:\Program Files (x86)\Intel\Intel(R) Management Engine Components\I       Déplacer vers le ha         C:\Program Files (x86)\Java\jre1.8.0_151\bin;       Déplacer vers le ba         %ANT_HOME%\bin;       Déplacer vers le ba	%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\	Supprimer
C:\Program Files\Intel\Intel(R) Management Engine Components\       Déplacer vers le ha         C:\Program Files (x86)\Intel\Intel(R) Management Engine Components\I       Déplacer vers le ha         C:\Program Files\Intel\Intel(R) Management Engine Components\I       Déplacer vers le ha         C:\Program Files (x86)\Java\jre1.8.0_151\bin;       Déplacer vers le ba         %ANT_HOME%\bin;       Déplacer vers le ba	C:\Program Files (x86)\Intel\Intel(R) Management Engine Compon	
C:\Program Files (x86)\Intel\Intel(R) Management Engine Compon       Déplacer vers le ha         C:\Program Files \Intel\Intel(R) Management Engine Components\I       Déplacer vers le ha         C:\Program Files (x86)\Java\jre1.8.0_151\bin;       Déplacer vers le ba         %ANT_HOME%\bin;       Déplacer vers le ba	C:\Program Files\Intel\Intel(R) Management Engine Components\	
C:\Program Files\Intel\Intel(R) Management Engine Components\I C:\Program Files (x86)\Java\jre1.8.0_151\bin; %ANT_HOME%\bin %JAVA_HOME%\bin;%JAVA_HOME%\jre\bin;	C:\Program Files (x86)\Intel\Intel(R) Management Engine Compon	Déplacer vers le hau
C:\Program Files (x86)\Java\jre1.8.0_151\bin;     Déplacer vers le ba       %ANT_HOME%\bin     %JAVA_HOME%\jre\bin;	C:\Program Files\Intel\Intel(R) Management Engine Components\I	
%ANT_HOME%\bin %JAVA_HOME%\bin;%JAVA_HOME%\jre\bin;	C:\Program Files (x86)\Java\jre1.8.0_151\bin;	Déplacer vers le ba
%JAVA_HOME%\bin;%JAVA_HOME%\jre\bin;	%ANT_HOME%\bin	
	;%JAVA_HOME%\bin;%JAVA_HOME%\jre\bin;	
Modifier le texte		Modifier le texte

### Puis, cliquez le PATH dans le variables utilisateur

Nouveau	%USERPROFILE%\AppData\Local\Microsoft\WindowsApps
	C:\Program Files\Java\jdk1.8.0_151;
Modifier	%ANT_HOME%\bin
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	%JAVA_HOME%\bin
Parcourir	

IN'oublie pas cliqez ok II

Pour verifier si le java est ajouté, on ouvre le commandes, ecrivez javac

C:\windows\system32\cmd.exe	
Microsoft Windows [version	10.0.15063]
(c) 2017 Microsoft Corpora	tion. Tous droits réservés.
C:\Users\BAI≻javac Usage: javac <options> <so where possible options inc∶</so </options>	urce files> lude:
<pre>-g</pre>	Generate all debugging info
-g:none	Generate no debugging info
-g:{lines,vars,source}	Generate only some debugging info
-nowarn	Generate no warnings
-verbose	Output messages about what the compiler is doing
-deprecation	Output source locations where deprecated APIs are used
-classpath <path></path>	Specify where to find user class files and annotation processors
-cp <path></path>	Specify where to find user class files and annotation processors
-sourcepath <path></path>	Specify where to find input source files
-bootclasspath <path></path>	Override location of bootstrap class files
-extdirs <dirs></dirs>	Override location of bootstrap class files

Parfait !!

- On copie les 3 locations de SDK NDK ANT(déjà téléchargé), collez les 3 dans le espace blanc du Qt "outils->options"(après le téléchargement du java, la location de java est déjà affiché)
- S'il n'y a pas d'erreurs, c'était dire on a fini le téléchargement.

## Lancer le programme

 On ouvre le Qt, et clique sur "Fichier->Nouveau fichier ou project", et puis, clique le "Application->Qt Quick Application"

Projets	
Application	Application Qt avec widgets
Library Autre projet	Qt Console Application
Non-Qt Project Import Project	Qt Quick Application
Fichiers et classes	
Modeling	Qt Quick Controls 2 Application
Qt	Qt Canvas 3D Application
GLSL	
General	

- Clique "choose.." pour nomer "Hello"
- Et puis clique "suivant" jusqu'à entré la fenetre comme ça:

Y 👝 hello	<pre>#include <oguiapplication></oguiapplication></pre>
hello.pro	2 #include <qqmlapplicationengine></qqmlapplicationengine>
✓ c+ Sources	3
• main.cpp	4 ♥ int main(int argc, char *argv[])
> 🔒 Resources	5 {
	6 QGuiApplication app(argc, argv);
	7
	8 QQmlApplicationEngine engine;
	<pre>9 engine.load(QUrl(QStringLiteral("qrc:/main.qml")));</pre>
	<pre>10 if (engine.rootObjects().isEmpty())</pre>
	11 return -1;
	12
	<pre>13 return app.exec();</pre>
	14 }
	15

Finalement clique Compile(le marteau à gauche) pour compiler et exécuter

ATTENTION !! le kit pour exécution qu'on a utilisé est : Android for armeabi v7a GCC 4 9 Qt 5 9 0 for Android armv7

