

Faculty of Information and Communication Technology

Licence Technologique en Informatique Appliquée

3ème année

PMH

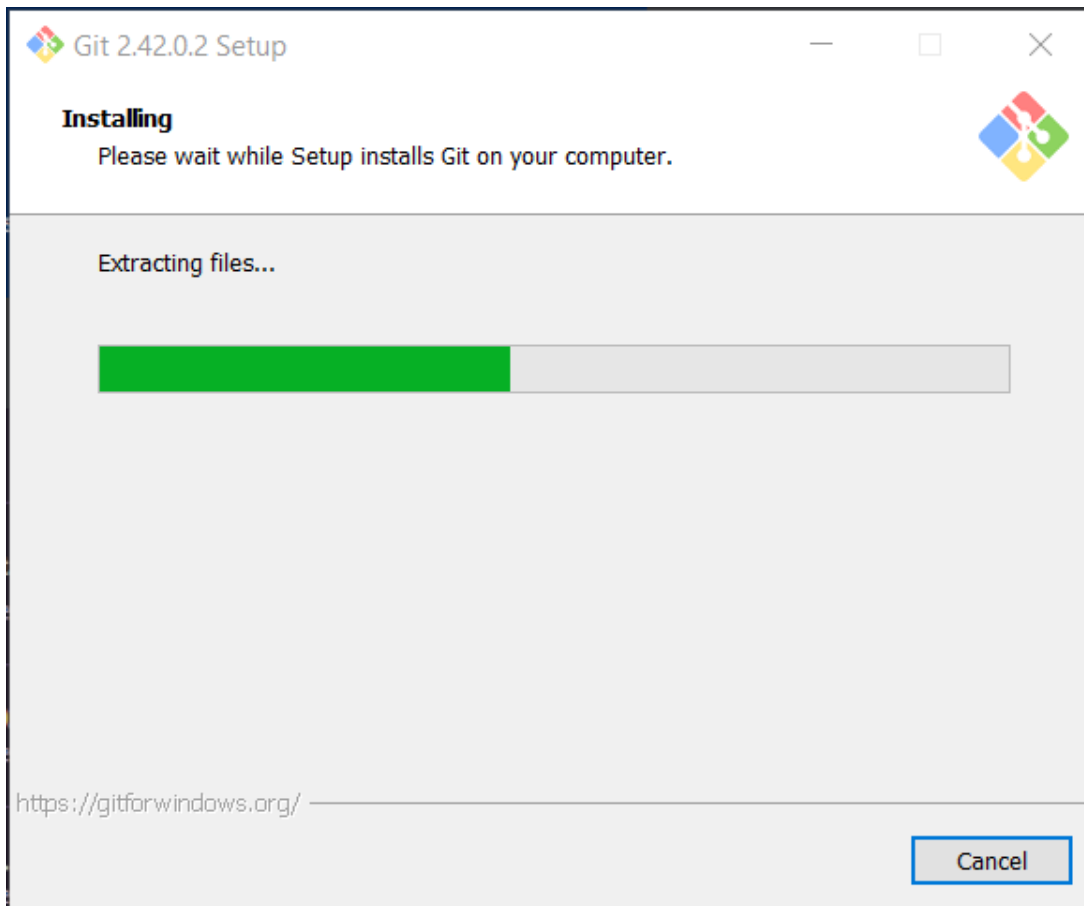
Session 1 - TP 1

Par : Ken Addison Chan Yin Shin **THIBAUD**

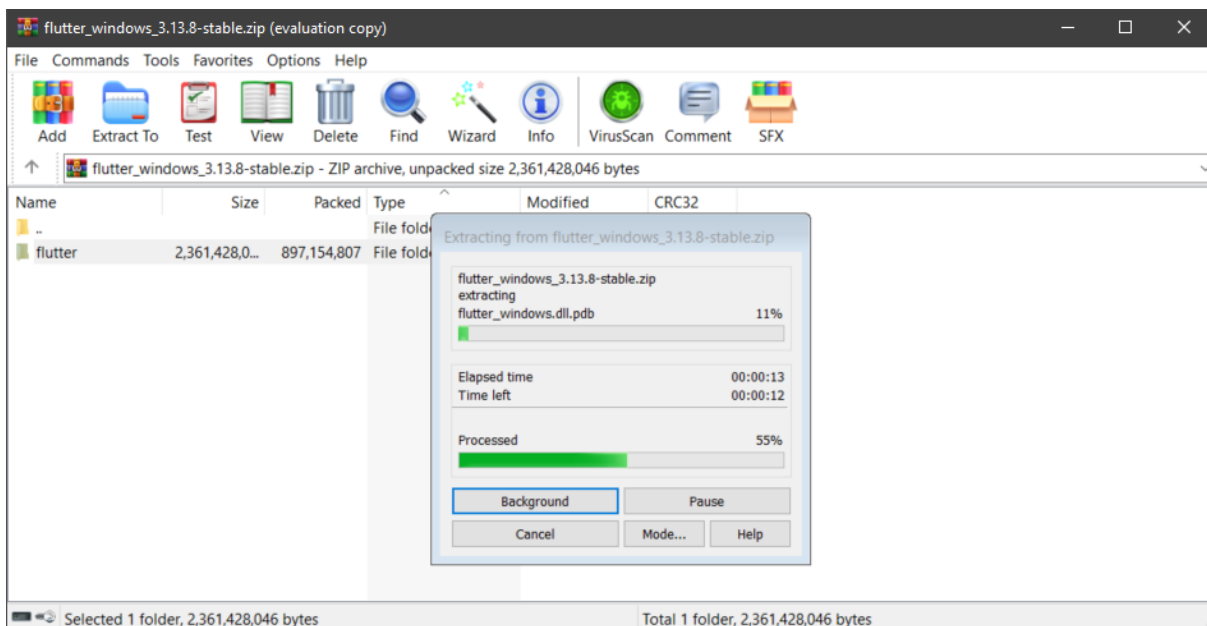
Destinataire : Mr S.Beeharry

Date: 22/10/2023



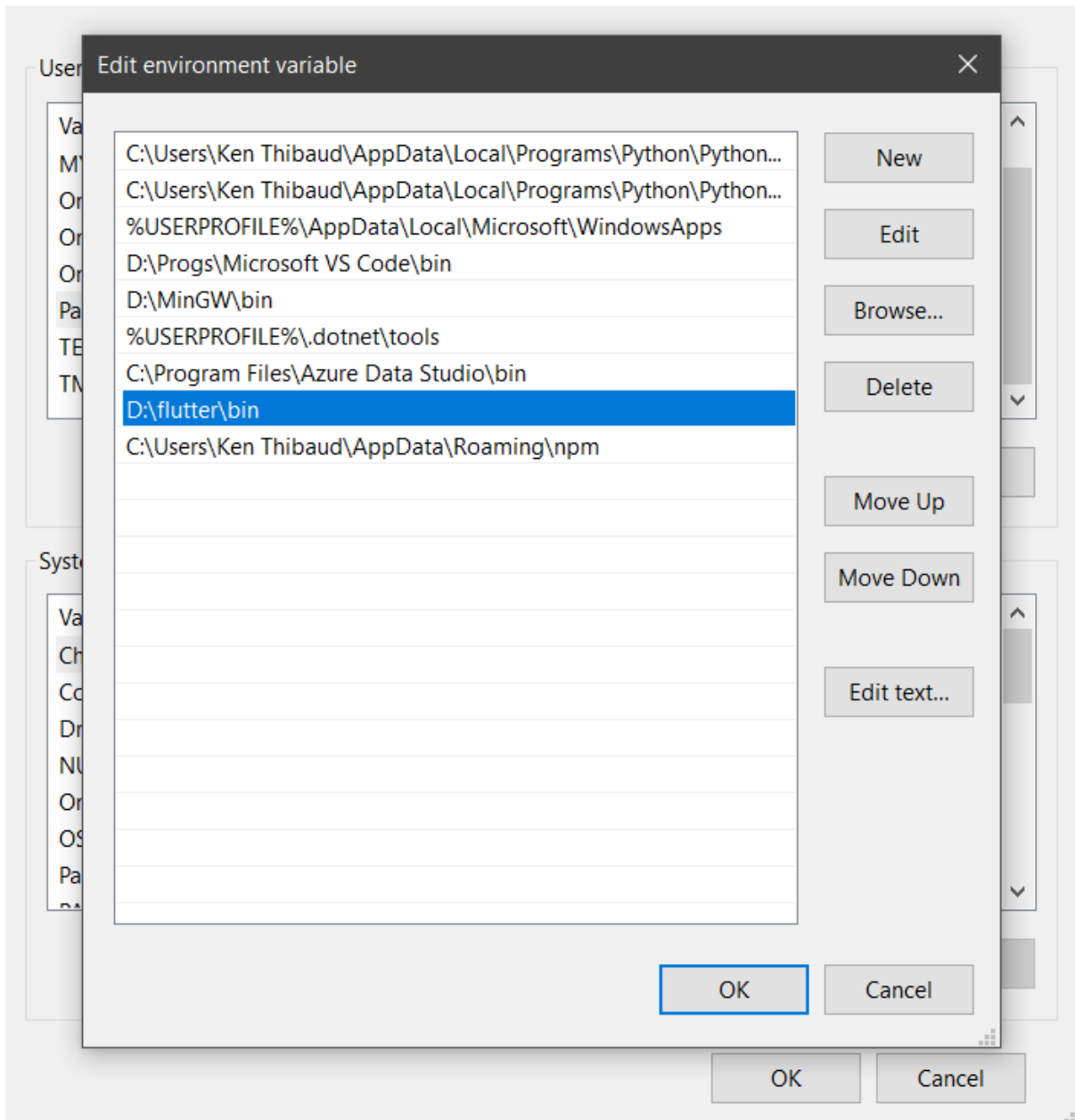


Installation Git



Extraction de flutter dans drive D

Environment Variables



Insertion du path pour le dossier flutter\bin

```
PS D:\flutter> flutter doctor
Found an existing Pub cache at C:\Users\Ken Thibaud\AppData\Local\Pub\Cache.
It can be repaired by running 'dart pub cache repair'.
It can be reset by running 'dart pub cache clean'.
Terminate batch job (Y/N)? Y
PS D:\flutter> dart pub cache repair

The Dart tool uses Google Analytics to report feature usage statistics
and to send basic crash reports. This data is used to help improve the
Dart platform and tools over time.

To disable reporting of analytics, run:

dart --disable-analytics

Reinstalled 190 packages.
PS D:\flutter> flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.13.8, on Microsoft Windows [Version 10.0.19045.3570], locale en-GB)
[✓] Windows Version (Installed version of Windows is version 10 or higher)
[X] Android toolchain - develop for Android devices
    X Unable to locate Android SDK.
      Install Android Studio from: https://developer.android.com/studio/index.html
      On first launch it will assist you in installing the Android SDK components.
      (or visit https://flutter.dev/docs/get-started/install/windows#android-setup for detailed instructions).
      If the Android SDK has been installed to a custom location, please use
      'flutter config --android-sdk' to update to that location.
[✓] Chrome - develop for the web
[!] Visual Studio - develop Windows apps (Visual Studio Community 2019 16.11.27)
    X Visual Studio is missing necessary components. Please re-run the Visual Studio installer for the "Desktop development with C++" workload, and include these components:
      MSVC v142 - VS 2019 C++ x64/x86 build tools
        - If there are multiple build tool versions available, install the latest
      C++ Make tools for Windows
      Windows 10 SDK
[!] Android Studio (not installed)
[✓] Connected device (3 available)
[✓] Network resources

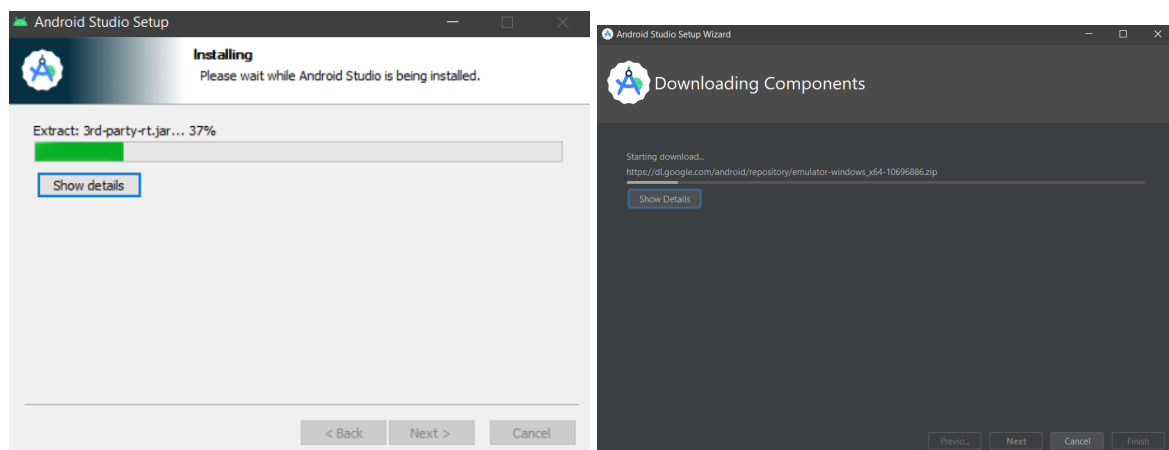
! Doctor found issues in 3 categories.
```

## Exécution de flutter doctor

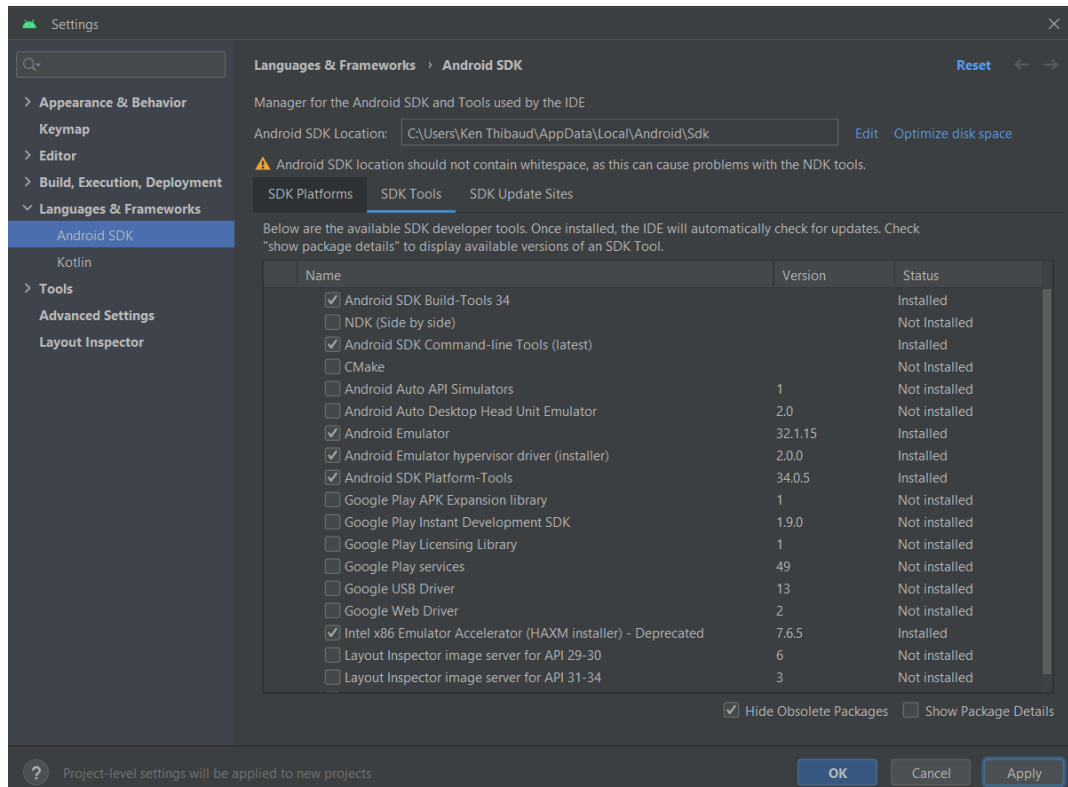
```
PS D:\flutter> flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.13.8, on Microsoft Windows [Version 10.0.19045.3570], locale en-GB)
[✓] Windows Version (Installed version of Windows is version 10 or higher)
[X] Android toolchain - develop for Android devices
    X Unable to locate Android SDK.
      Install Android Studio from: https://developer.android.com/studio/index.html
      On first launch it will assist you in installing the Android SDK components.
      (or visit https://flutter.dev/docs/get-started/install/windows#android-setup for detailed instructions).
      If the Android SDK has been installed to a custom location, please use
      'flutter config --android-sdk' to update to that location.
[✓] Chrome - develop for the web
[✓] Visual Studio - develop Windows apps (Visual Studio Community 2019 16.11.27)
[!] Android Studio (not installed)
[✓] Connected device (3 available)
[✓] Network resources

! Doctor found issues in 2 categories.
PS D:\flutter>
```

## Après installation des modules dans visual studio community



## Installation android studio



Téléchargement et installation de android SDK Command line tools (latest) suite à une erreur durant la première installation

```
! Doctor found issues in 1 category.
PS D:\flutter> ^C
PS D:\flutter> flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.13.8, on Microsoft Windows [Version 10.0.19045.3570], locale en-GB)
[✓] Windows Version (Installed version of Windows is version 10 or higher)
[!] Android toolchain - develop for Android devices (Android SDK version 34.0.0)
    ! Some Android licenses not accepted. To resolve this, run: flutter doctor --android-licenses
[✓] Chrome - develop for the web
[✓] Visual Studio - develop Windows apps (Visual Studio Community 2019 16.11.27)
[✓] Android Studio (version 2022.3)
[✓] Connected device (3 available)
[✓] Network resources

! Doctor found issues in 1 category.
PS D:\flutter> flutter doctor --android-licenses
```

Acceptation Android License à travers le powershell

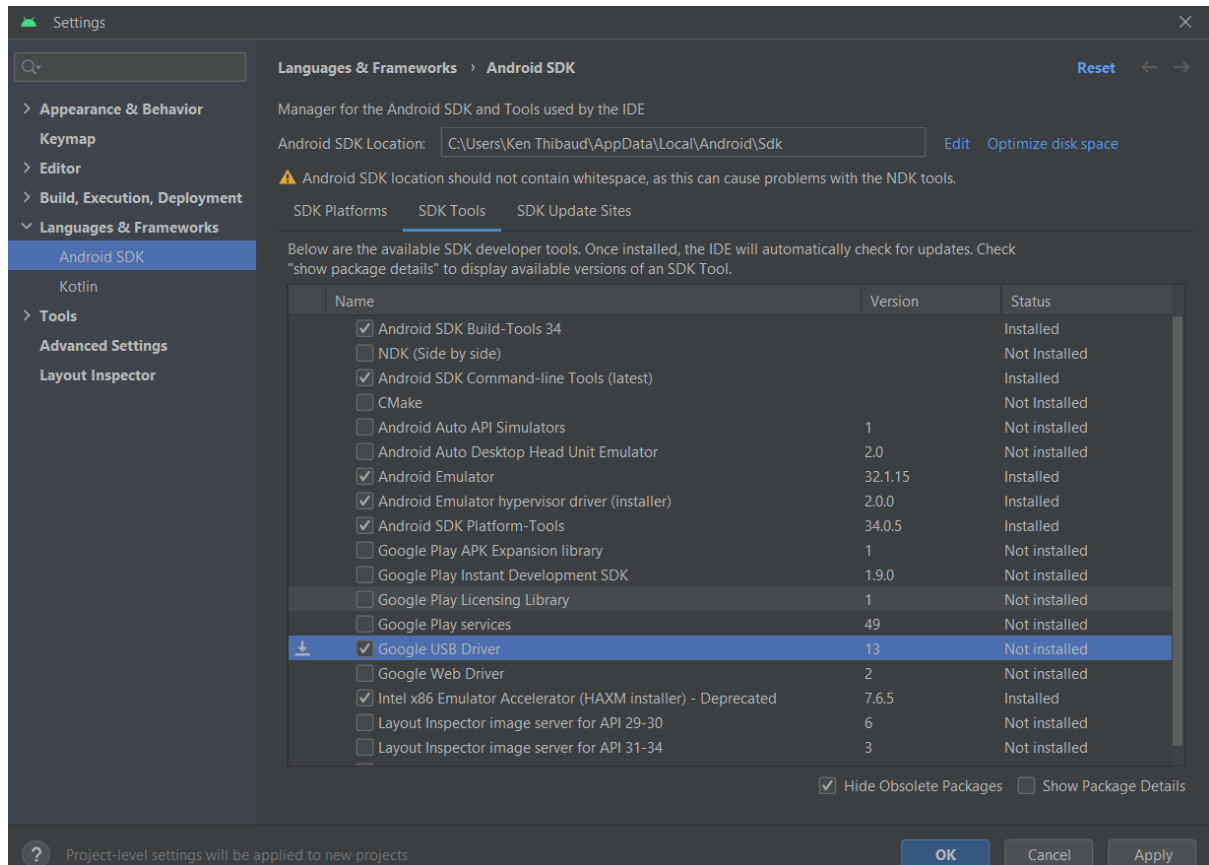
```

10.8 Open Source Software. In the event Open Source software is included with Evaluation Software, such Open S
ware comments in the applicable source code file(s) and/or file header as indicated in the Evaluation Software
ce software, nothing in this Agreement limits any rights under, or grants rights that supersede, the terms of
-----
Accept? (y/N): y
All SDK package licenses accepted

PS D:\flutter> flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.13.8, on Microsoft Windows [Version 10.0.19045.3570], locale en-GB)
[✓] Windows Version (Installed version of Windows is version 10 or higher)
[✓] Android toolchain - develop for Android devices (Android SDK version 34.0.0)
[✓] Chrome - develop for the web
[✓] Visual Studio - develop Windows apps (Visual Studio Community 2019 16.11.27)
[✓] Android Studio (version 2022.3)
[✓] Connected device (3 available)
[✓] Network resources

• No issues found!
PS D:\flutter>

```



Settings

Appearance & Behavior  
Keymap  
Editor  
Build, Execution, Deployment  
Languages & Frameworks  
Android SDK  
Kotlin  
Tools  
Advanced Settings  
Layout Inspector

Languages & Frameworks > Android SDK

Manager for the Android SDK and Tools used by the IDE

Android SDK Location: C:\Users\Ken Thibaud\AppData\Local\Android\Sdk Edit Optimize disk space

⚠ Android SDK location should not contain whitespace, as this can cause problems with the NDK tools.

SDK Platforms SDK Tools SDK Update Sites

Below are the available SDK developer tools. Once installed, the IDE will automatically check for updates. Check "show package details" to display available versions of an SDK Tool.

Name	Version	Status
<input checked="" type="checkbox"/> Android SDK Build-Tools 34		Installed
<input type="checkbox"/> NDK (Side by side)		Not installed
<input checked="" type="checkbox"/> Android SDK Command-line Tools (latest)		Installed
<input type="checkbox"/> CMake		Not installed
<input type="checkbox"/> Android Auto API Simulators	1	Not installed
<input type="checkbox"/> Android Auto Desktop Head Unit Emulator	2.0	Not installed
<input checked="" type="checkbox"/> Android Emulator	32.1.15	Installed
<input checked="" type="checkbox"/> Android Emulator hypervisor driver (installer)	2.0.0	Installed
<input checked="" type="checkbox"/> Android SDK Platform-Tools	34.0.5	Installed
<input type="checkbox"/> Google Play APK Expansion library	1	Not installed
<input type="checkbox"/> Google Play Instant Development SDK	1.9.0	Not installed
<input type="checkbox"/> Google Play Licensing Library	1	Not installed
<input type="checkbox"/> Google Play services	49	Not installed
<input checked="" type="checkbox"/> Google USB Driver	13	Not installed
<input type="checkbox"/> Google Web Driver	2	Not installed
<input checked="" type="checkbox"/> Intel x86 Emulator Accelerator (HAXM installer) - Deprecated	7.6.5	Installed
<input type="checkbox"/> Layout Inspector image server for API 29-30	6	Not installed
<input type="checkbox"/> Layout Inspector image server for API 31-34	3	Not installed

☒ Hide Obsolete Packages ☐ Show Package Details

Project-level settings will be applied to new projects

OK Cancel Apply

## Installation Google USB Driver

```
PS D:\flutter> flutter devices
3 connected devices:

Windows (desktop) • windows • windows-x64 • Microsoft Windows [Version 10.0.19045.3570]
Chrome (web) • chrome • web-javascript • Google Chrome 114.0.5735.110
Edge (web) • edge • web-javascript • Microsoft Edge 115.0.1901.188

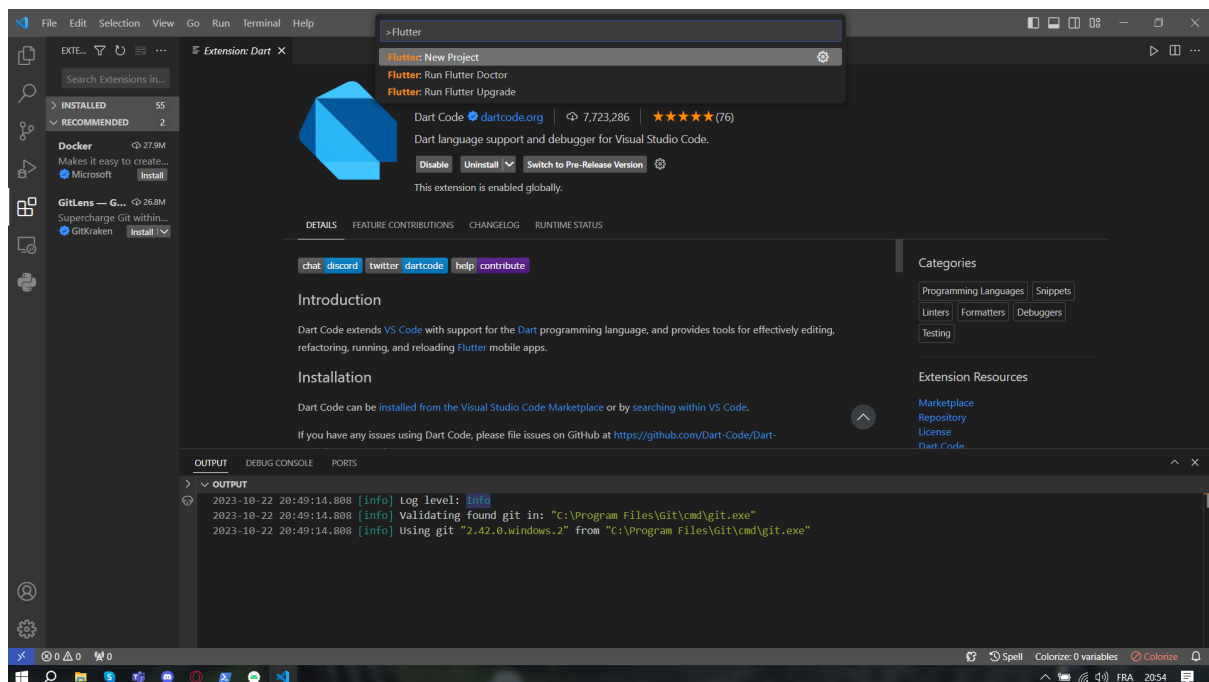
• Device 1d9b971d is not authorized.
You might need to check your device for an authorization dialog.
PS D:\flutter>
```

Connection d'un téléphone android par cable usb, la machine n'est pas autorisé

```
PS D:\flutter> flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.13.8, on Microsoft Windows [Version 10.0.19045.3570], locale en-GB)
[✓] Windows Version (Installed version of Windows is version 10 or higher)
[✓] Android toolchain - develop for Android devices (Android SDK version 34.0.0)
[✓] Chrome - develop for the web
[✓] Visual Studio - develop Windows apps (Visual Studio Community 2019 16.11.27)
[✓] Android Studio (version 2022.3)
[✓] Connected device (4 available)
[✓] Network resources

• No issues found!
PS D:\flutter>
```

Pour que la machine se connecte il faut activer le developper tools sur le téléphone et aussi le usb debugging ainsi qu'autoriser l'ordinateur à se connecter



Installation extension flutter sur vs code



```

[flutter] flutter doctor -v
[V] Flutter (Channel stable, 3.13.8, on Microsoft Windows [Version 10.0.19045.3570], locale en-GB)
  • Flutter version 3.13.8 on channel stable at D:\flutter
  • Upstream repository https://github.com/flutter/flutter.git
  • Framework revision 6c4930c4ac (4 days ago), 2023-10-18 10:57:55 -0500
  • Engine revision 767d8c75e8
  • Dart version 3.1.4
  • DevTools version 2.25.0

[V] Windows Version (Installed version of Windows is version 10 or higher)

[V] Android toolchain - develop for Android devices (Android SDK version 34.0.0)
  • Android SDK at C:\Users\Ken Thibaud\AppData\Local\Android\sdk
  • Platform android-34, build-tools 34.0.0
  • Java binary at: C:\Program Files\Android\Android Studio\jbr\bin\java
  • Java version OpenJDK Runtime Environment (build 17.0.6+0-b2043.56-10027231)
  • All Android licenses accepted.

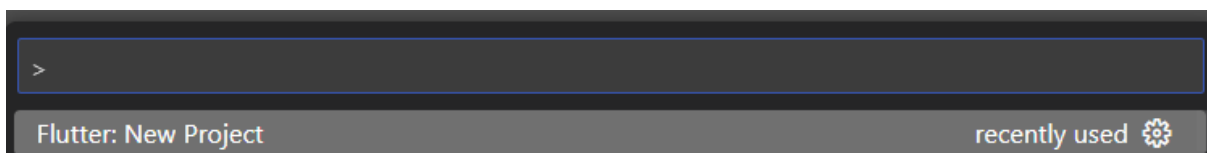
[V] Chrome - develop for the web
  • Chrome at C:\Program Files\Google\Chrome\Application\chrome.exe

[V] Visual Studio - develop Windows apps (Visual Studio Community 2019 16.11.27)
  • Visual Studio at C:\Program Files (x86)\Microsoft Visual Studio\2019\Community
  • Visual Studio Community 2019 version 16.11.33801.447
  • Windows 10 SDK version 10.0.19041.0
  
```

Flutter doctor sur vs code: >Flutter : Run Flutter Doctor

```

1 import 'package:flutter/material.dart';
2
3 void main() {
4   runApp(const MyApp());
5 }
6
7 class MyApp extends StatelessWidget {
8   const MyApp({super.key});
9
10  // This widget is the root of your application.
11  @override
12  Widget build(BuildContext context) {
13    return MaterialApp(
14      title: 'Flutter Demo',
15      theme: ThemeData(
16        // This is the theme of your application.
17        // TRY THIS: Try running your application with "flutter run". You'll see
18        // the application has a blue toolbar. Then, without quitting the app,
19        // try changing the seedColor in the colorScheme below to Colors.green
20        // and then invoke "hot reload" (save your changes or press the "hot
21        // reload" button in a Flutter-supported IDE, or press "r" if you used
22        // the command line to start the app).
23        // Notice that the counter didn't reset back to zero; the application
24        // state is not lost during the reload. To reset the state, use hot
25        // restart instead.
26        // This works for code too, not just values: Most code changes can be
27        // tested with just a hot reload.
28        colorScheme: ColorScheme.fromSeed(seedColor: Colors.deepPurple),
29        useMaterial3: true,
30      ),
31      home: const MyHomePage(title: 'Flutter Demo Home Page'),
32    );
33  }
34 }
35
  
```



Création du first app de base avec flutter : new project