



## ممم جداً

هذا الملف للمراجعة السريعة واخذ الملاحظات عليه فقط ،لانه يحتوي على اقل من 20٪ مما يتم شرحه في الفيديوهات الاستعجال والاعتماد عليه فقط سوف يجعلك تخسر كميه معلومات وخبرات كثيره

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**Programming - Level 1** 

Managed vs Unmanaged Code

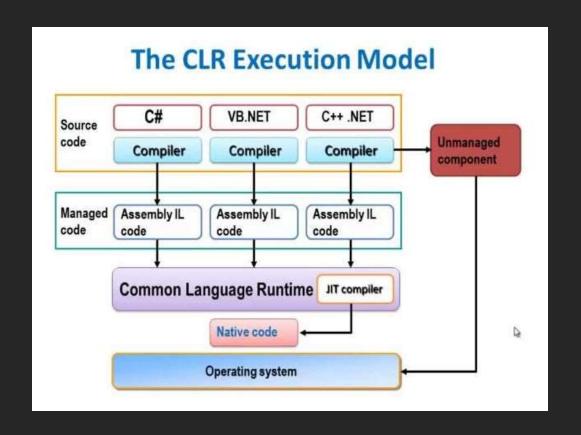
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## **Managed Code**

- The code that runs with CLR is called managed code, whereas the code outside the CLR is called unmanaged code.
- The CLR also provides an Interoperability layer, which allows both the managed and unmanaged codes to interoperate.
- Any language that is written in the .NET framework is managed code.
  Managed code use CLR, which looks after your applications by managing memory, handling security, allowing cross-language debugging, etc.



## **Unmanaged Code**

- The code developed outside the .NET framework is known as unmanaged code.
- Applications that do not run under the control of the CLR are said to be unmanaged. Certain languages such as C++ can be used to write such applications, such as low-level access functions of the operating system.
- Background compatibility with VB, ASP, and COM are examples of unmanaged code. This code is executed with the help of wrapper classes.

COM: Component Object Model: It's a client server communication using method in the server without the need to compile them into your application. (old technology 1993 by Microsoft).



