Dependency Injection in .Net

Content in document was updated: 2:14 PM 7/3/2025, based on .Net 8 LTS

Concept of Dependency Injection: Providing object’s dependencies from an external source.

|  |
| --- |
| public interface IExample  {  void DoSomething();  }  public class ExampleA : IExample  {  public void DoSomething()  {  Console.WriteLine("ExampleA is doing something. Read from file.");  }  }  public class ExampleB : IExample  {  public void DoSomething()  {  Console.WriteLine("ExampleB is doing something. Read from DB.");  }  }  public class ExampleRunner  {  IExample example;  public ExampleRunner(IExample e)  {  example = e;  }  public void DoSomething()  {  example.DoSomething();  }  }  public class Program()  {  public static void Main(string[] args)  {  // dependency injection, ExampleA or ExampleB can be injected  ExampleRunner theRunner = new ExampleRunner(new ExampleA());  theRunner.DoSomething();  }  } |

Most basic example