

# 1 Required tools

The following list contains the tools used during our exercises. The most important element is the .NET Core 3.1 (SDK) platform.

<https://dotnet.microsoft.com/download/dotnet-core/3.1>

Release information	Build apps - SDK <span>ⓘ</span>	Run apps - Runtime <span>ⓘ</span>																																	
<b>v3.1.2</b> <a href="#">Release notes</a> <b>Released</b> 2020-02-18	<b>SDK 3.1.102</b> <b>Visual Studio support</b> Visual Studio 2019 (v16.4) <b>Included runtimes</b> .NET Core Runtime 3.1.2 ASP.NET Core Runtime 3.1.2 Desktop Runtime 3.1.2 <b>Language support</b> C# 8.0 F# 4.7 <table><tr><th>OS</th><th>Installers</th><th>Binaries</th></tr><tr><td>Linux</td><td><a href="#">Package manager instructions</a></td><td><a href="#">ARM32</a>   <a href="#">ARM64</a>   <a href="#">x64 Alpine</a>   <a href="#">x64 RHEL 6 x64</a></td></tr><tr><td>macOS</td><td><a href="#">x64</a></td><td><a href="#">x64</a></td></tr><tr><td>Windows</td><td><a href="#">x64</a>   <a href="#">x86</a></td><td><a href="#">ARM32</a>   <a href="#">x64</a>   <a href="#">x86</a></td></tr><tr><td>All</td><td><a href="#">dotnet-install scripts</a></td><td></td></tr></table> <a href="#">Localized IntelliSense</a>	OS	Installers	Binaries	Linux	<a href="#">Package manager instructions</a>	<a href="#">ARM32</a>   <a href="#">ARM64</a>   <a href="#">x64 Alpine</a>   <a href="#">x64 RHEL 6 x64</a>	macOS	<a href="#">x64</a>	<a href="#">x64</a>	Windows	<a href="#">x64</a>   <a href="#">x86</a>	<a href="#">ARM32</a>   <a href="#">x64</a>   <a href="#">x86</a>	All	<a href="#">dotnet-install scripts</a>		<b>ASP.NET Core Runtime 3.1.2</b>  The ASP.NET Core Runtime enables you to run existing web/server applications. <b>On Windows, we recommended installing the Hosting Bundle, which includes the .NET Core Runtime and IIS support.</b>  <b>IIS runtime support (ASP.NET Core Module v2)</b> 13.1.20018.2 <table><tr><th>OS</th><th>Installers</th><th>Binaries</th></tr><tr><td>Linux</td><td><a href="#">Package manager instructions</a></td><td><a href="#">ARM32</a>   <a href="#">ARM64</a>   <a href="#">ARM64 Alpine</a>   <a href="#">x64 Alpine</a>   <a href="#">x64</a></td></tr><tr><td>macOS</td><td></td><td><a href="#">x64</a></td></tr><tr><td>Windows</td><td><a href="#">x64</a>   <a href="#">x86</a>   <a href="#">Hosting Bundle</a></td><td><a href="#">ARM32</a>   <a href="#">x64</a>   <a href="#">x86</a></td></tr></table> <b>Desktop Runtime 3.1.2</b>  The Desktop Runtime enables you to run existing Windows desktop applications. <b>This release includes the .NET Core Runtime, you do not need to install it separately.</b> <table><tr><th>OS</th><th>Installers</th><th>Binaries</th></tr><tr><td>Windows</td><td><a href="#">x64</a>   <a href="#">x86</a></td><td></td></tr></table>	OS	Installers	Binaries	Linux	<a href="#">Package manager instructions</a>	<a href="#">ARM32</a>   <a href="#">ARM64</a>   <a href="#">ARM64 Alpine</a>   <a href="#">x64 Alpine</a>   <a href="#">x64</a>	macOS		<a href="#">x64</a>	Windows	<a href="#">x64</a>   <a href="#">x86</a>   <a href="#">Hosting Bundle</a>	<a href="#">ARM32</a>   <a href="#">x64</a>   <a href="#">x86</a>	OS	Installers	Binaries	Windows	<a href="#">x64</a>   <a href="#">x86</a>	
OS	Installers	Binaries																																	
Linux	<a href="#">Package manager instructions</a>	<a href="#">ARM32</a>   <a href="#">ARM64</a>   <a href="#">x64 Alpine</a>   <a href="#">x64 RHEL 6 x64</a>																																	
macOS	<a href="#">x64</a>	<a href="#">x64</a>																																	
Windows	<a href="#">x64</a>   <a href="#">x86</a>	<a href="#">ARM32</a>   <a href="#">x64</a>   <a href="#">x86</a>																																	
All	<a href="#">dotnet-install scripts</a>																																		
OS	Installers	Binaries																																	
Linux	<a href="#">Package manager instructions</a>	<a href="#">ARM32</a>   <a href="#">ARM64</a>   <a href="#">ARM64 Alpine</a>   <a href="#">x64 Alpine</a>   <a href="#">x64</a>																																	
macOS		<a href="#">x64</a>																																	
Windows	<a href="#">x64</a>   <a href="#">x86</a>   <a href="#">Hosting Bundle</a>	<a href="#">ARM32</a>   <a href="#">x64</a>   <a href="#">x86</a>																																	
OS	Installers	Binaries																																	
Windows	<a href="#">x64</a>   <a href="#">x86</a>																																		

# 2 Microsoft Visual Studio

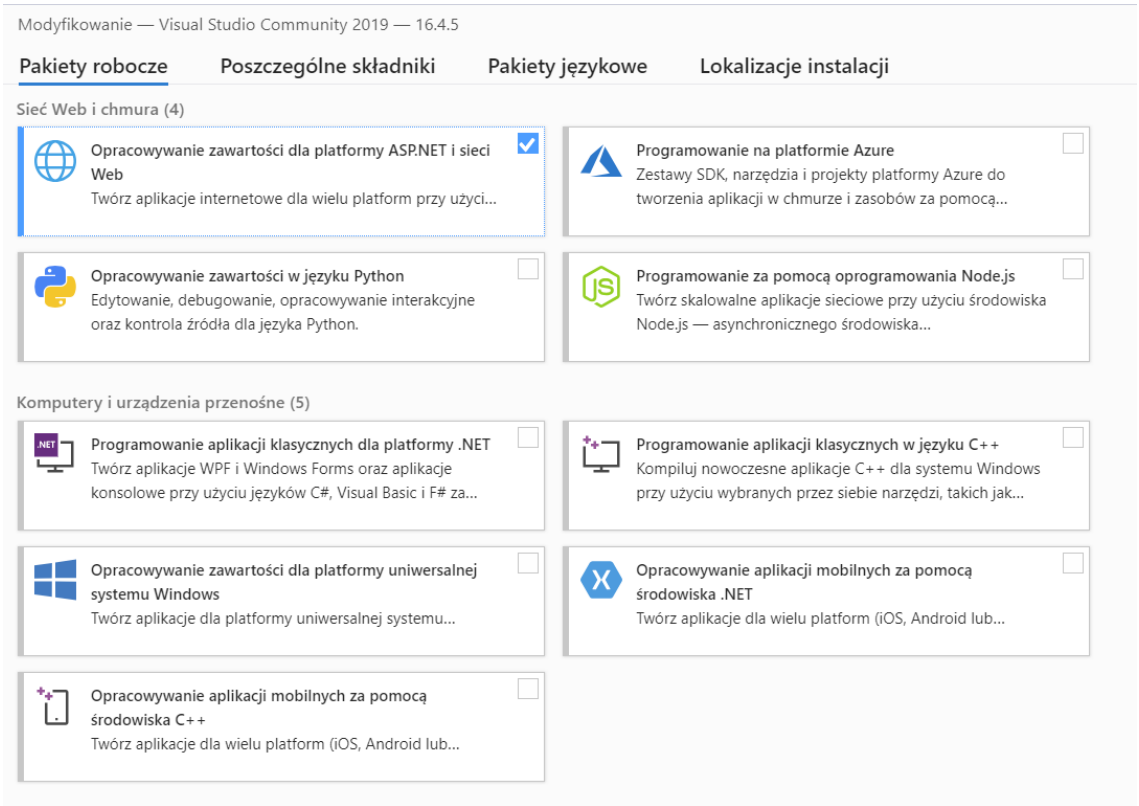
In class, we will use Microsoft Visual Studio 2019. For our applications, all you need is the free Community version.

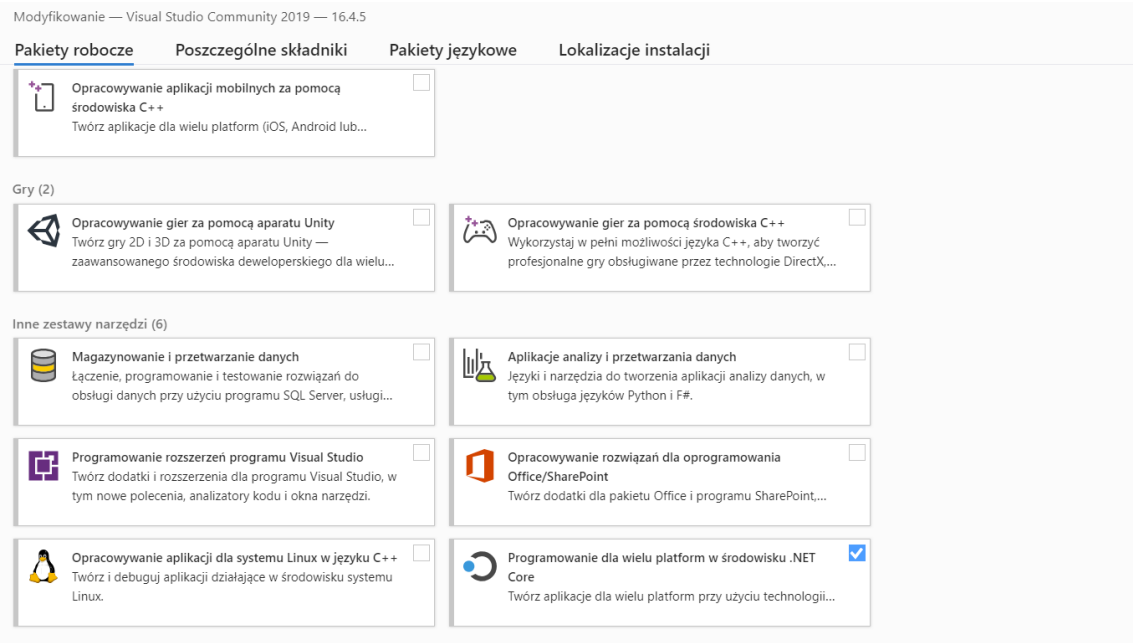
<https://visualstudio.microsoft.com/pl/vs/>

Attention. Please remember to use the English version (or adding an additional English package). Our materials will always be presented in English.

During installation, two packages should be selected:

- Content development for ASP.NET and the Web
- Multi-platform programming in .NET Core





### 3   Git

Tasks performed during the exercises will be posted on Github.com. To do this, you must install the Git tool on your computer.

`https://git-scm.com/downloads`