Instructions how to prepare environment

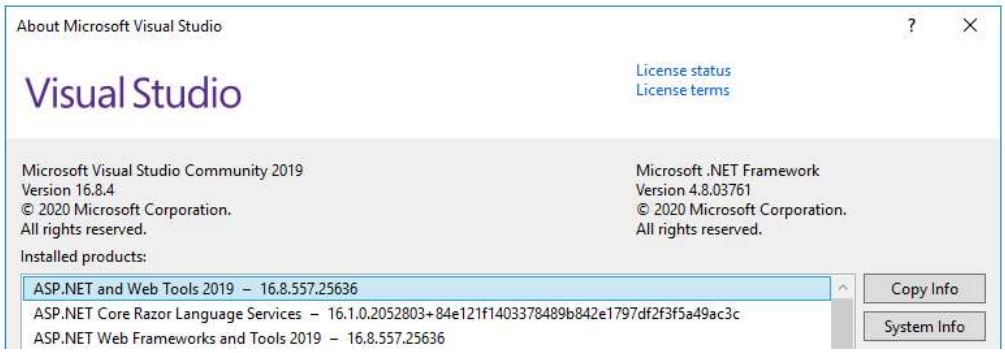
During course we will be using NET Core platform in version 5, that is most recent. As IDE we will use either Visual Studio 19 or Visual Studio Code. This document contains instructions how to prepare environment for course.

If you do not have Visual Studio installed yet, install either

- Visual Studio 2019 Community Edition if you have Windows, more then 6 GB RAM and 10 GB on your disk
- or Visual Studio Code otherwise (Linux, low RAM or disk space)

For more information how to install either VS 2019 or VS Code, please follow instructions in next chapters.

If you already have Visual Studio, make sure you have most recent version – Visual Studio 2019, version 16.8.4. You can find version of your Visual Studio in Help -> About Microsoft Visual Studio:



If you do not have Visual Studio 19, version 16.8.4, please upgrade.

(Installation of Visual Studio Code is described in next chapter)

Installation of Visual Studio 2019 Community Edition

Required time ~ 30 min in my environment but may be slower in environment with slow Internet or slower disks.

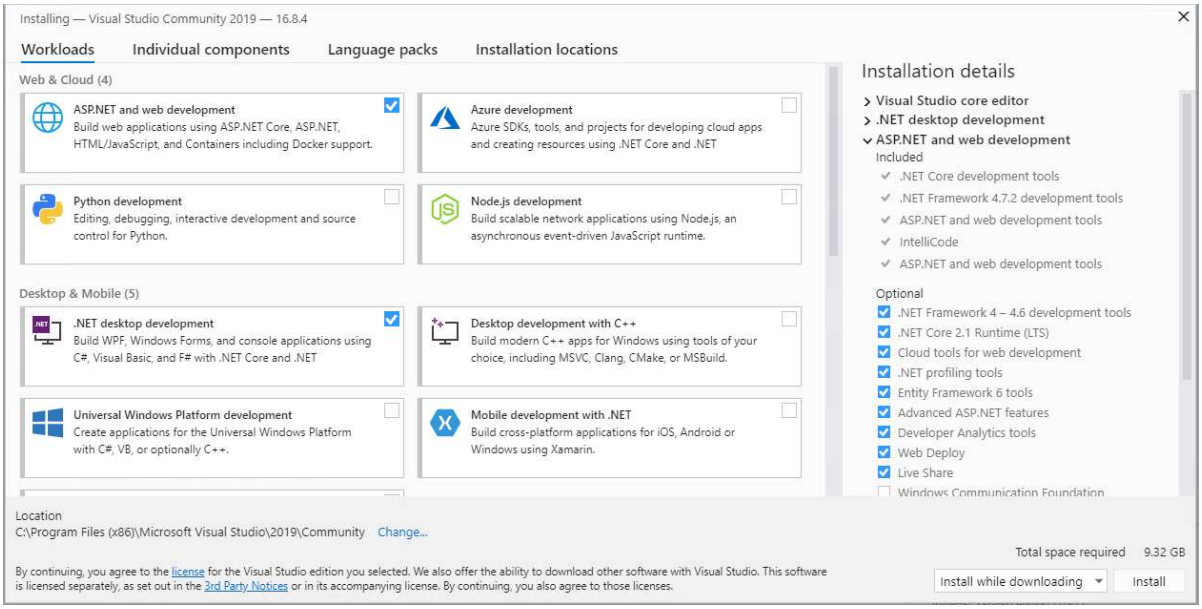
Required disk space ~ 9.5 GB.

If you will face any issues during installation, you can try to fix it or wait for Monday when we will fix it together – both options are fine.

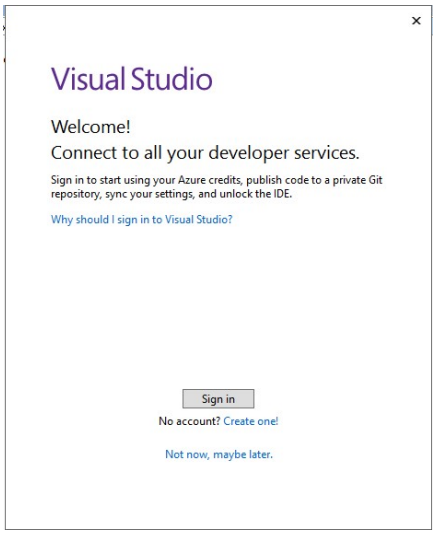
Installation steps:

1. Go to https://visualstudio.microsoft.com/vs/

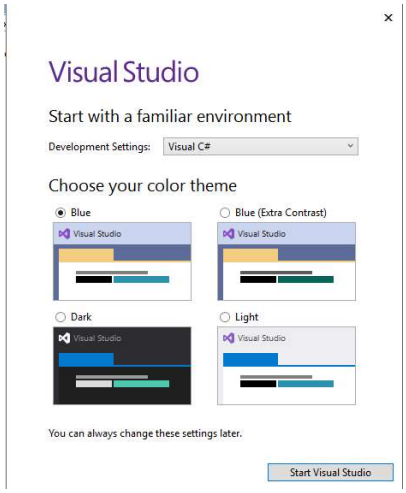
2. Click Download Visual Studio , pick Community 2019 edition, downloading of installer starts automatically
3. When you download the installer, run it and follow instructions
4. In page where you can choose components to install, pick
    a. ASP.NET and web development
    b. .NET desktop development



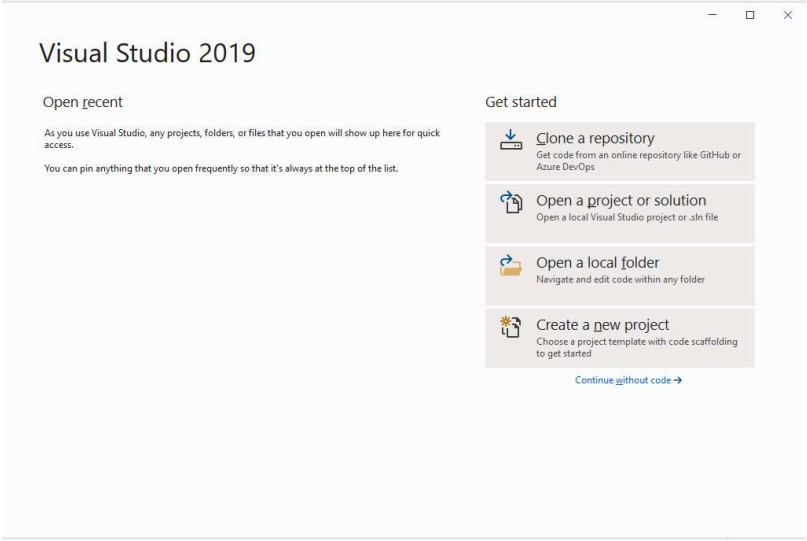
5. Click Install and installation will start. Installation takes approx. 10 min in my environment with fast Internet and SSD disks
6. When installation finishes, skip Sign in – click “Not now, maybe later” in the bottom of the dialog.



7. On page “Start with Familiar Environment” choose “Visual C#” in select box Development Settings. Choose color scheme of your choice, some people prefer Blue, other Dark.



8. Click “Start Visual Studio”
9. Check if Visual Studio opened successfully, you should see screen below. If all is OK, that’s great. Now close Visual Studio and continue to the last step.

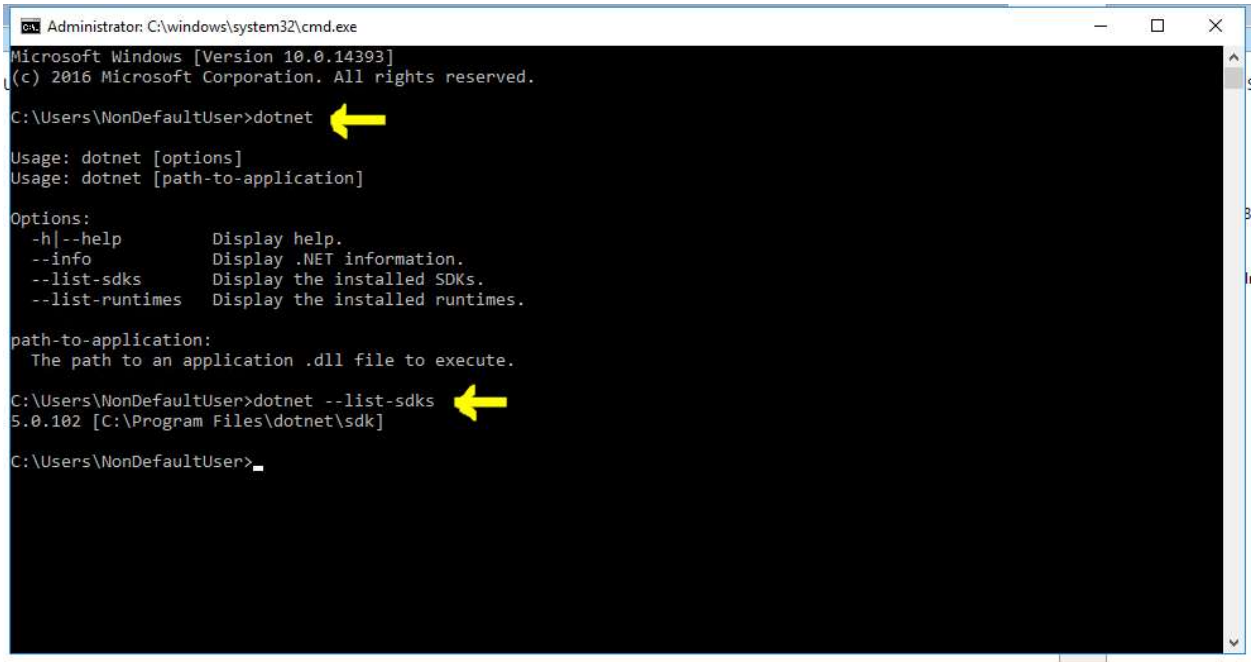


10. Verify whether NET Core 5 is installed
    a. Open Command Line - Press Windows+R to open “Run” box. Type “cmd” and then click “OK” to open a regular Command Prompt.
    b. In Command Line enter “`dotnet`”, command is recognized and you see help information

c. In Command Line enter "`dotnet --list-sdks`" , in the output you should be able to see list of supported NET Core version. The list may have multiple items but should contain .NET Core 5 – the version we will use during course:

```
5.0.* [C:\Program Files\dotnet\sdk]
```

(number on third position may differ, version 5.0.**102** is most recent but little older versions are also OK)



11. That's all, thank you. Your Visual Studio 2019 is installed.

Installation of Visual Studio Code

Install Visual Studio Code in case you have Linux, Mac, not enough RAM (less then 6 GB) or not enough HDD space (10GB). Visual Studio Code is very lightweight but it has quite good support for NET Core development.

If you will face any issues during installation, you can try to fix it or wait for Monday when we will fix it together – both options are fine.

Installation steps:

1. Visit page https://code.visualstudio.com/download and download installer for you platform.

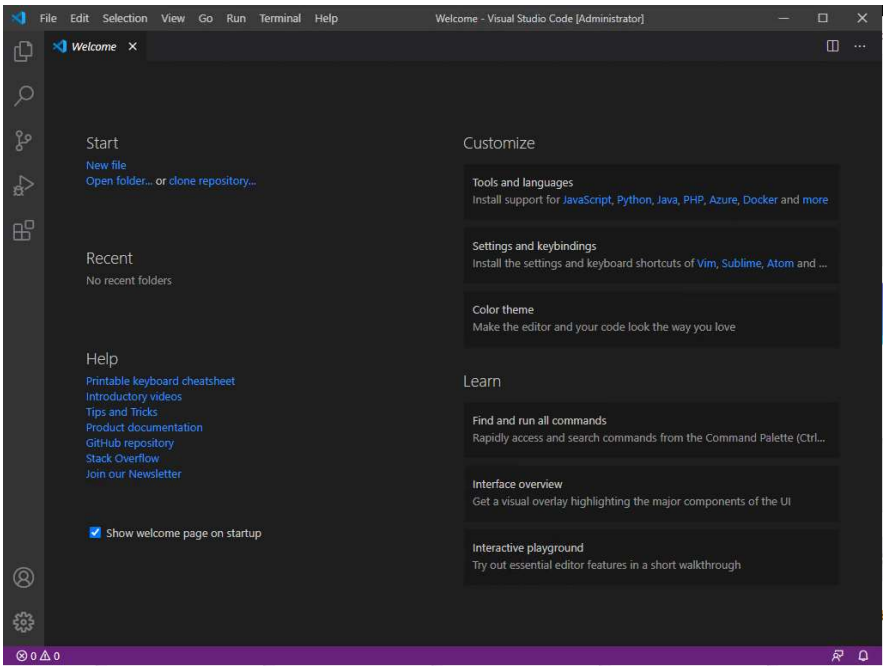
2. Run installer and follow instructions, Visual Studio Code installer is very simple, mostly just hit Next.

For Windows I had no issues, but I had issues with installing Visual Studio Code from deb package on Ubuntu 18.04. I tried installation using snap and it worked for me very well: https://code.visualstudio.com/docs/setup/linux

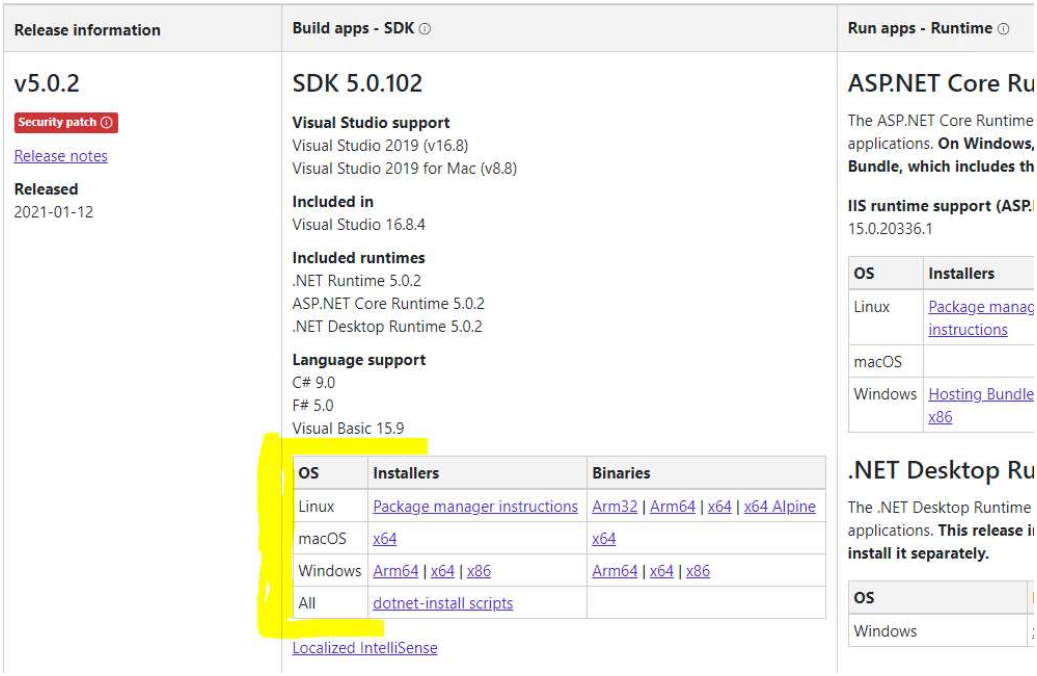
For Ubuntu 18.04 I installed Visual Studio Code with command

```
sudo snap install --classic code
```

3. Start Visual Studio code – run command "`code`" in command prompt or shell. You should see initial screen similar as in the picture below



4. Visit page https://dotnet.microsoft.com/download/dotnet/5.0 and install NET Core 5 SDK.



Release information	Build apps - SDK	Run apps - Runtime

v5.0.2

Security patch

Release notes

Released
2021-01-12

SDK 5.0.102

Visual Studio support
Visual Studio 2019 (v16.8)
Visual Studio 2019 for Mac (v8.8)

Included in
Visual Studio 16.8.4

Included runtimes
.NET Runtime 5.0.2
ASP.NET Core Runtime 5.0.2
.NET Desktop Runtime 5.0.2

Language support
C# 9.0
F# 5.0
Visual Basic 15.9

OS	Installers	Binaries
Linux	Package manager instructions	Arm32 | Arm64 | x64 | x64 Alpine
macOS	x64	x64
Windows	Arm64 | x64 | x86	Arm64 | x64 | x86
All	dotnet-install scripts	

Localized IntelliSense

ASP.NET Core Ru

The ASP.NET Core Runtime
applications. **On Windows,**
Bundle, which includes th

IIS runtime support (ASP.
15.0.20336.1

OS	Installers
Linux	Package manag instructions
macOS	
Windows	Hosting Bundle x86

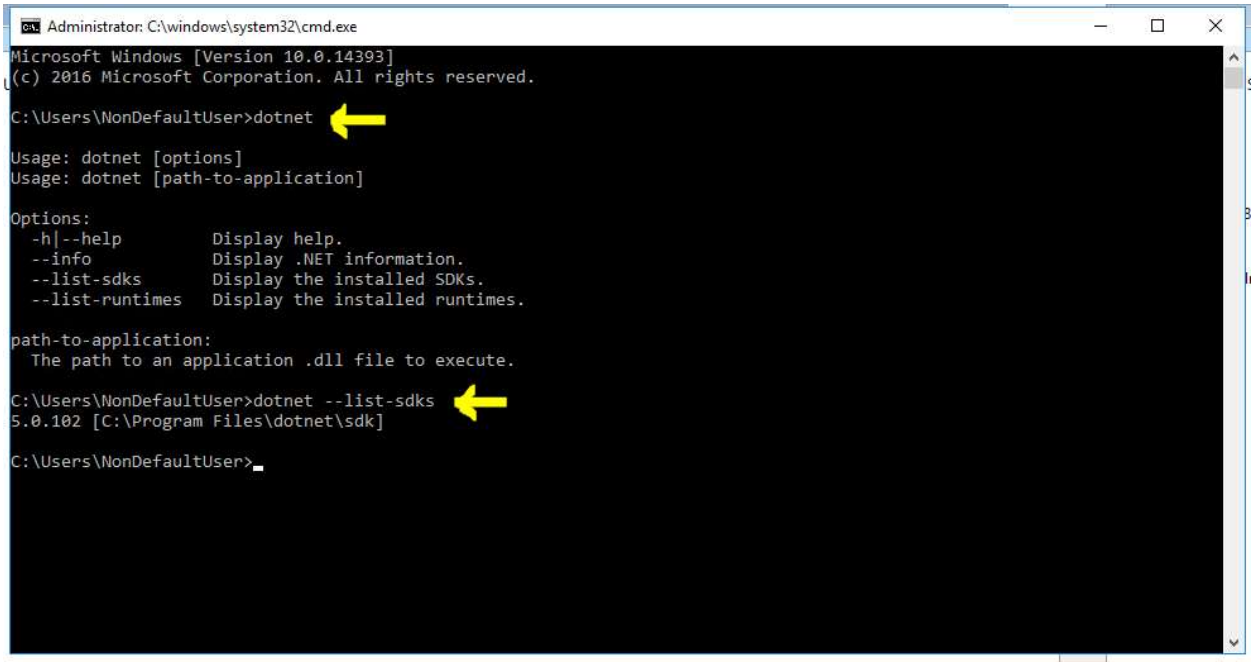
.NET Desktop Ru

The .NET Desktop Runtime
applications. **This release i**
install it separately.

OS
Windows

5. Based on your OS:
    a. For Windows click on x64, download installer and run it. Installation process is quite fast and easy.
    b. For Linux, the installation differs per distribution, follow links and navigate to instructions for your specific distribution and version, e.g.
        i. Ubuntu distros - https://docs.microsoft.com/en-us/dotnet/core/install/linux#ubuntu
        ii. Ubuntu 18.04 - https://docs.microsoft.com/en-us/dotnet/core/install/linux-ubuntu#1804-

6. When the SDK is installed, open shell or command prompt and run "`dotnet`" and "`dotnet –list-sdks`" commands, you should see output like screenshot below.



7. You Visual Studio Code and .NET Core is installed successfully.