

MPLAB IDE Installation

1. To install MPLAB X visit [this](#) page

The screenshot shows the Microchip website's navigation bar with the Microchip logo, a search bar, and links for 'My Account' and a shopping cart. Below the navigation bar is a horizontal menu with categories: PRODUCTS, SOLUTIONS, TOOLS AND RESOURCES, SUPPORT, EDUCATION, ABOUT, and ORDER NOW. A breadcrumb trail reads 'Tools and Resources / Develop / MPLAB® X IDE'. Below this is a dark grey bar with 'Downloads and Documentation' and 'Ecosystem' links.

Downloads				
Downloads Features Documentation Debug Features				
MPLAB X IDE v6.10				
MPLAB X IDE only supports computers with processors designed with Intel® 64 or AMD® 64-bit architectures.				
Windows 11 is supported by MPLAB X IDE v6.05 and later.				
Title	Version Number		Date	
MPLAB X IDE (Windows)	0c8f43b...	3780 6.10	17 May 2023	Download
MPLAB X IDE (Linux)	4065540e...	5107 6.10	17 May 2023	Download
MPLAB X IDE (macOS)	47aaf96a...	37ec 6.10	17 May 2023	Download
MPLAB X IDE Release Notes		6.10	17 May 2023	Download

Download the appropriate file, extract it, run it and follow the installation instructions.

There is no need to change the default settings unless you have a particular preference.

2. To install XC8 Compiler visit [this](#) page.

The screenshot shows the Microchip website's navigation bar and breadcrumb trail: 'Tools and Resources / Develop / MPLAB® XC Compilers / MPLAB XC Compiler Downloads and Documentation'. Below this is a table of compiler downloads.

MPLAB XC8 C-Compiler (Windows)	e2ae1131... ae4b	2.41	21 Feb 2023	Download
MPLAB XC8 C-Compiler (macOS)	e548dd67... 61ef	2.41	21 Feb 2023	Download
MPLAB XC8 C-Compiler (Linux)	b2cc4bac... 1ef7	2.41	21 Feb 2023	Download

MPLAB XC8 Compiler Documentation

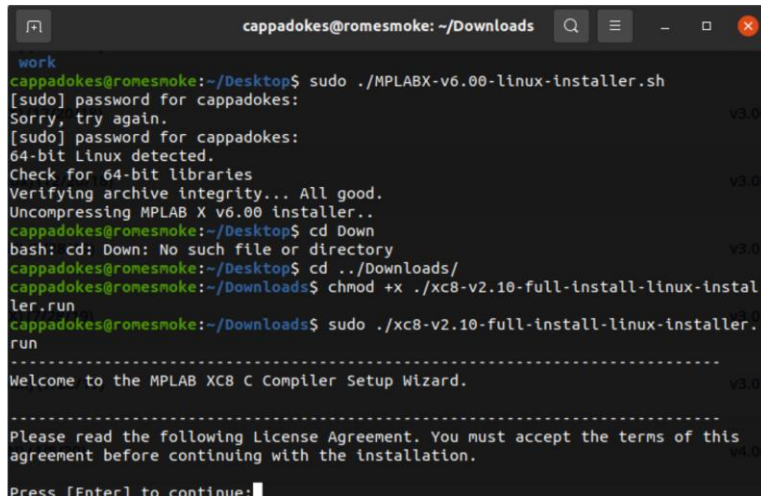
Title	Date	
MPLAB XC8 C Compiler v2.41 Release Notes for AVR MCU	21 Feb 2023	Download
MPLAB XC8 C Compiler v2.41 Release Notes for PIC MCU	21 Feb 2023	Download
MPLAB XC8 C Compiler User's Guide for PIC MCU	21 Feb 2023	Download
MPLAB XC8 C Compiler User's Guide for AVR MCU	21 Feb 2023	Download

It is not necessary to change the default settings.

In case of compatibility issues, you may be required to install an older compiler version. XC8 version 2.1 has been tested and is stable with no issues. To install an older version of the compiler, visit [this](#) page.

In some Linux environments, even after making the file executable via chmod, you may get a “no such file or directory” error message.

To proceed you will need to install the libc6:i386 package



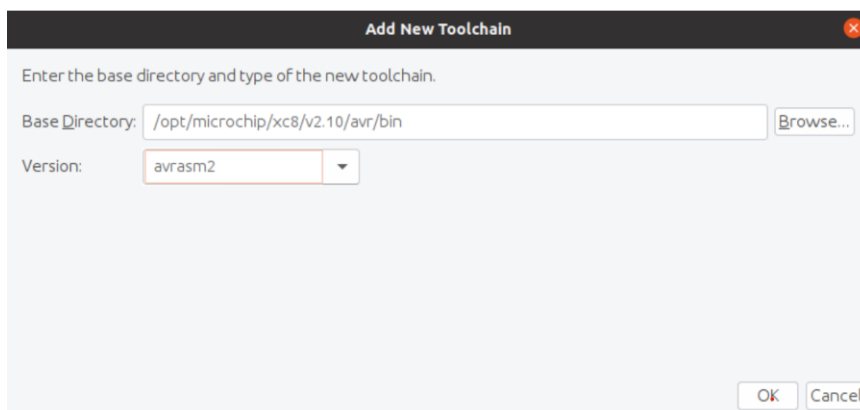
```
cappadokes@romesnoke: ~/Downloads
work
cappadokes@romesnoke:~/Desktop$ sudo ./MPLABX-v6.00-linux-installer.sh
[sudo] password for cappadokes:
Sorry, try again.
[sudo] password for cappadokes:
64-bit Linux detected.
Check for 64-bit libraries
Verifying archive integrity... All good.
Uncompressing MPLAB X v6.00 installer..
cappadokes@romesnoke:~/Desktop$ cd Down
bash: cd: Down: No such file or directory
cappadokes@romesnoke:~/Desktop$ cd ../Downloads/
cappadokes@romesnoke:~/Downloads$ chmod +x ./xc8-v2.10-full-install-linux-installer.run
cappadokes@romesnoke:~/Downloads$ sudo ./xc8-v2.10-full-install-linux-installer.run
-----
Welcome to the MPLAB XC8 C Compiler Setup Wizard.
-----
Please read the following License Agreement. You must accept the terms of this
agreement before continuing with the installation.
-----
Press [Enter] to continue:
```

3. MPLAB X Setup - avrasm2

If when creating a new project in MPLAB X, at the compiler selection stage, avrasm2 is not selectable then follow the path:

Tools → Options → Embedded → Build Tools → Add...

A window like below will open..



Select browse, enter the folder path [...]/xc8/v2.10/avr/bin and select avrasm2 as version.