

IDEs for C++

Integrated Development Environment

IDE Workshop Handout



XCode

IDE: <https://developer.apple.com/xcode/>



Cloud 9

IDE: <https://c9.io/login>

Keyboard shortcuts: <https://docs.c9.io/docs/keybindings>



VIM

IDE: <http://www.vim.org/>

Plugins: <https://vimawesome.com/>



Visual Studio

IDE: <https://www.visualstudio.com/vs/>

Keyboard shortcuts: <http://www.dofactory.com/reference/visual-studio-shortcuts>

Extensions: <https://marketplace.visualstudio.com/vs>



How to Install and use the above IDEs: <https://youtu.be/xDul9NhD9Hs>

What is an IDE?

IDE stands for Integrated Development Environment. An IDE is a software application used by programmers for code development and normally consists of a source code editor, a compiler/interpreter, and a debugger.

~ [Lynda.com](https://www.lynda.com)

Why should I use an IDE?

- Convenient
- Efficient



IDE List

1. VIM
2. Xcode
3. Visual Studio
4. Cloud9

Worldwide, Dec 2017 compared to a year ago:

Rank	Change	IDE	Share	Trend
1	↑	Eclipse	25.77 %	+7.9 %
2	↓	Visual Studio	19.66 %	-2.6 %
3		Android Studio	9.54 %	-0.1 %
4		Vim	8.18 %	+0.1 %
5		Xcode	5.38 %	+0.1 %
6	↑↑	IntelliJ	4.72 %	+0.4 %
7	↓	NetBeans	3.96 %	-2.0 %
8	↑↑	Xamarin	3.79 %	+0.5 %
9	↓↓	Sublime Text	3.26 %	-1.3 %
10	↓	Komodo	3.16 %	-0.6 %

~ PYPL's Top IDE index
pypl.github.io/IDE.html

VIM

Developed by

Bram Moolenaar

Supports languages

C, C++, Go, Java, Javascript, PHP, Perl, Python, Ruby, ...

Supported OS

Windows, Mac, Linux

Features

- In Terminal text editing
- Lightweight
- Keybindings
- Plugins



XCode

Developed by

Apple

Supports languages

AppleScript, C, C++, Java, Python, Ruby, Swift, ...

Supported OS

Mac

Features

- Built in Debugger
- Intellisense, Keybindings
- Text color, layout
- Emojis?



Visual Studio



Developed by

Microsoft

Supports languages

C, C++, Visual Basic, .NET, JavaScript, TypeScript, ...

Supported OS

Windows, Mac

Features

- Integrated Debugger
- Intellisense, Keybindings
- Themes, layout
- Extensions

Cloud9



Developed by

Amazon Web Services

Supports languages

C, C++, Go, JavaScript, PHP, Perl, Python, Ruby, ...

Supported OS

Windows, Mac, Linux, Chrome OS

Features

- Built in Debugger
- Intellisense, Keybindings
- Themes, layout
- Real time group collaboration and chat